MIDLAND INDUSTRIES

FITTINGS • VALVES • HOSE • CLAMPS & ACCESSORIES

2021

Midland Metal MFG
A MIDLAND INDUSTRIES COMPANY

Anderson Metals AMC
A MIDLAND INDUSTRIES COMPANY

STAINLESS ADAPTERS INC.
A MIDLAND INDUSTRIES COMPANY

CHAMPION BRASS
FITTINGS • CONNECTORS • VALVES
A MIDLAND INDUSTRIES COMPANY

MID-AMERICA FITTINGS, LLC.
A MIDLAND INDUSTRIES COMPANY

BUCHANAN RUBBER LTD
A MIDLAND INDUSTRIES COMPANY

AMIFLEX INC.
A MIDLAND INDUSTRIES COMPANY

MIDLANDINDUSTRIES.COM | FIND US ON:

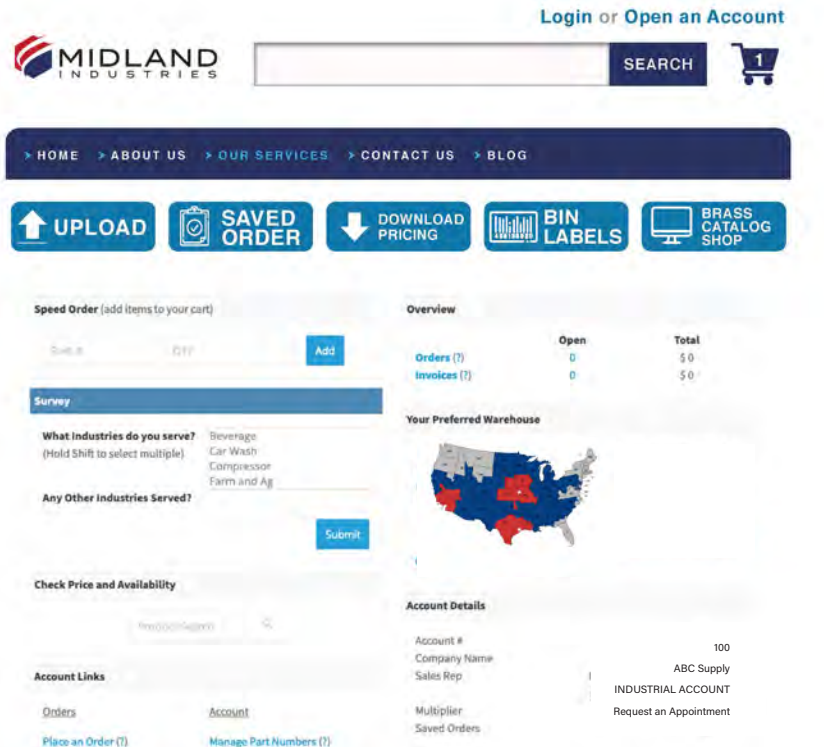
ACCOUNT MANAGER

FULL CONTROL AT YOUR FINGER TIPS!

MUCH MORE THAN JUST PLACING ORDERS!

LOG INTO ACCOUNT MANAGER FOR:

- Get Account Information
- New Customer Profile
- Check Your Order History
- Access Your Invoices
- Download Current Pricing
- Print Bin Labels
- Check Backorders
- Print Invoices
- Pick A Preferred Warehouse
- Save Orders
- Manage Part Numbers
- Quick Order
- Upload Your Order
- And More...



LOG IN TO MIDLANDINDUSTRIES.COM

VISIT WWW.MIDLANDINDUSTRIES.COM AND LOGIN TO YOUR ACCOUNT USING YOUR CUSTOMER ID AND PASSWORD.

- View your price and available stock.
- View open orders and tracking information on all shipments.
- Download pricing files.
- Update your Customer Profile and Contacts
- For Purchasing, Accounts Payable, Sales, and Marketing.
- Check your message center to see the latest updates and specials.

CUSTOMER ID # : _____

PASSWORD : _____

MULTIPLIER : _____

Fax 1-800-877-5391

MIDLAND INDUSTRIES

sales@midlandindustries.com

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MIDLANDINDUSTRIES.COM

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MIDLAND INDUSTRIES

THE BUILT TO SERVE ADVANTAGE

As a new family of companies working together we're building the most powerful platform our industry has ever seen.

Founded upon a legacy of customer service, our mission is to give you a distinct competitive advantage. As a leader in globally sourced and domestically manufactured products we're providing needed innovations to distributor supply chains with a variety of marketing and data driven initiatives.

Save time and money with the industry knowledge that comes from decades of experience and hard work. Building advantage means you gain access to our growing network of distribution centers across North America. Come see what the Midland Advantage can do for your business.

THE PERFECT FIT

For decades the Midland family has been the chosen manufacturer and supplier of fittings, valves, hose and accessories to distributors across North America. Today's Midland Industries and our family of companies are committed to helping our customer serve their customers better Experience simple, worry-free products and innovations that make doing business easier.

MFG Midland Metal
A MIDLAND INDUSTRIES COMPANY

AMC® Anderson Metals
A MIDLAND INDUSTRIES COMPANY

STAINLESS ADAPTERS INC.
A MIDLAND INDUSTRIES COMPANY

CHAMPION BRASS
FITTINGS • CONNECTORS • VALVES
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AMIFLEX INC.
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www.MidlandIndustries.com | 800-821-5725

Connect with us

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LF BRASS FROST FREE SILLCOCK VALVES/ ANTI SIPHON

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LOW PRESSURE LF BRASS VALVES

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NOW CARRYING FULL LINE OF

CHAMPION BRASS
FITTINGS • CONNECTORS • VALVES
A MIDLAND INDUSTRIES COMPANY

&

MID-AMERICA
FITTINGS, LLC.
A MIDLAND INDUSTRIES COMPANY

NICKEL PLATED PUSH-IN FITTINGS WITH NICKEL PLATED COLLET

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SCH 40 SINLGE RUN NIPPLE BLACK

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BUILDING ADVANTAGE STARTS WITH VISIBILITY.

YOUR BRAND IS OUR BRAND. At Midland we keep our name off of everything so your customers only see yours. Our dedication to being a silent partner helps you build your brand while gaining critical exposure your market.

Our customized suite of **MARKETING TOOLS** helps you grow and expand your business. We make it simple to sell and ship with greater ease and accuracy.

TO SCHEDULE A DEMO CONTACT; SALES@MIDLANDINDUSTRIES.COM. LET'S START BUILDING TOGETHER!

MARKETING

CUSTOM CATALOG

Print custom catalogs with your brand, your pricing and your contact information.

FREE E-COMMERCE SITE

We will provide you with a free, fully functional, custom branded e-commerce site, pre-loaded with all of Midland's 20,000 items.

ORDER GATHERING

BIN LABELS

Create & print personalized bin labels with your brand to affix to bin boxes. Helps with reorders and managing your warehouse.

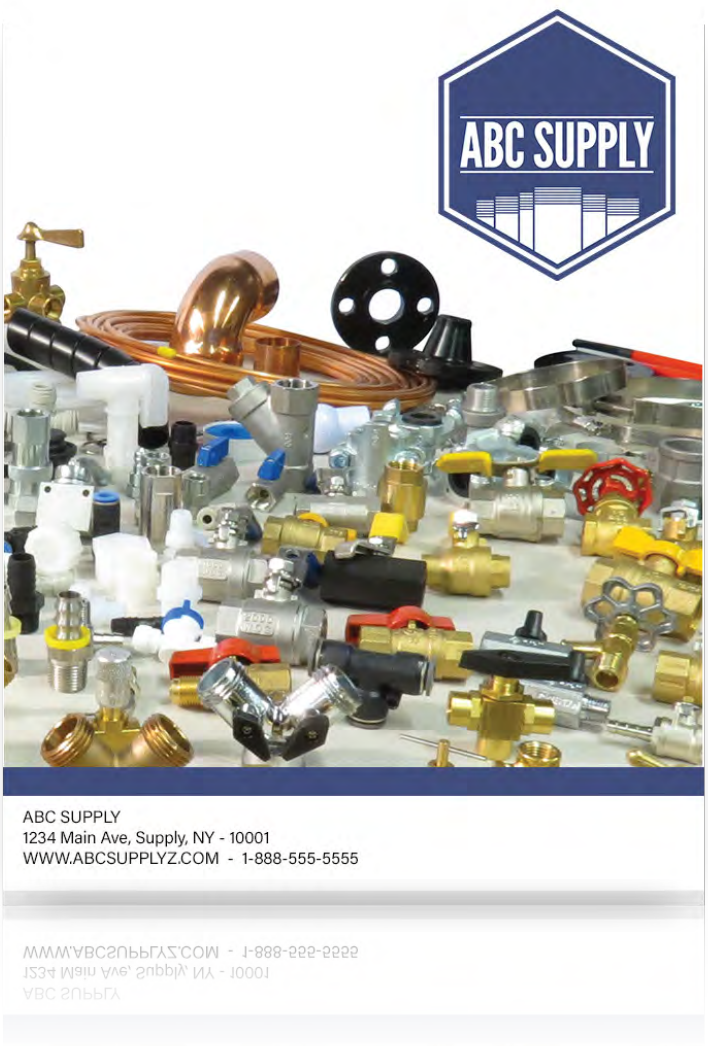
MIDLAND APP

Use the app to scan bin labels on location to quickly reorder, check stock and pricing. Save orders to submit later.

SHIPPING

PRIVATE LABEL

Private label shipments with your logo on boxes, packing slips and product labels...shipped how you want it, today!



OPTION A (FREE): CUSTOM DIGITAL

Our designers will work with you to create a cover that incorporates your branding. Choose between a Flip catalog, PDF or Both!

OPTION B: CUSTOM COVER

CONTACT YOUR SALES REP FOR PRICING

Our designers will work with you to create a cover that incorporates your branding. Cover will be full color with black and white internal pages. No custom options for internal pages. No minimum quantity required.

OPTION C: BLACK & WHITE CUSTOMIZED CATALOG

CONTACT YOUR SALES REP FOR PRICING

Your company logo and contact information will print on the footer of each page. Includes a full color custom cover with black and white internal pages. Minimum of 25 required.

OPTION D: FULL COLOR CUSTOMIZED CATALOG

CONTACT YOUR SALES REP FOR PRICING

Your company logo and contact information will print on the footer of each page. Entire catalog is printed in full color. Minimum of 25 required.

GET STARTED TODAY

MidlandIndustries.com/marketing

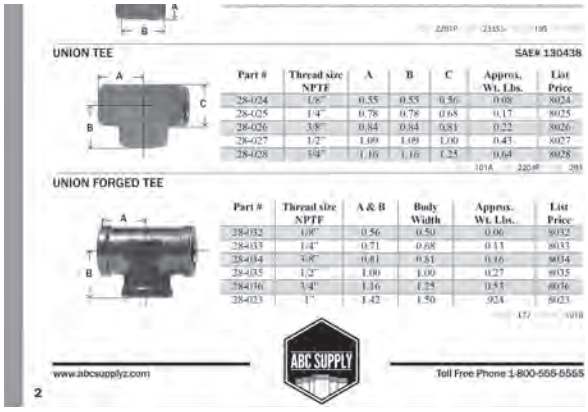
CUSTOM CATALOG

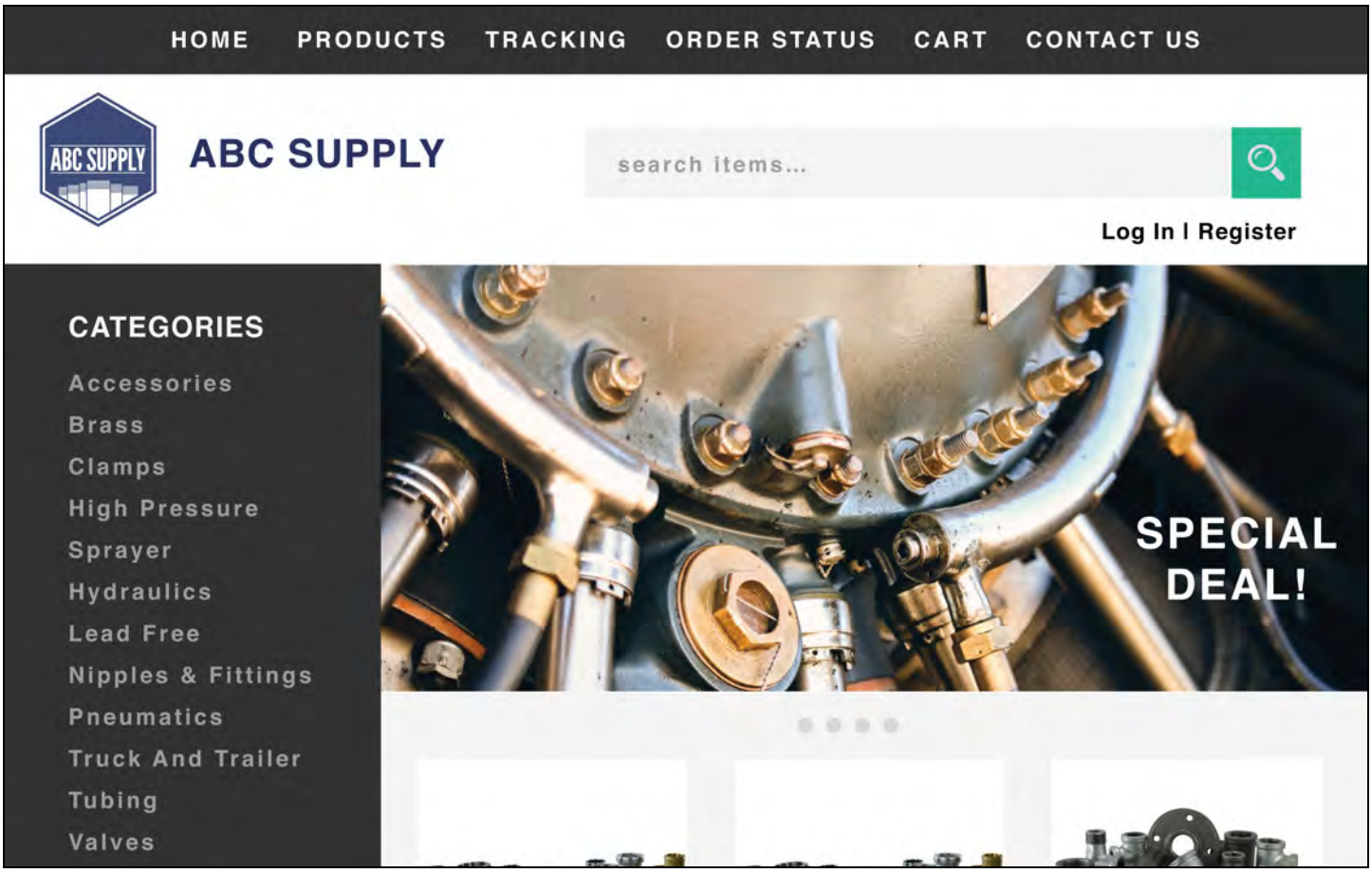
Print custom catalogs with your brand, your pricing and your contact information.

A UNIQUE CATALOG AT A REASONABLE PRICE

Using Midland's newest catalog as a template, we can completely customize the look, contact information, and pricing to fit your company's needs. The process is simple and takes about a month to complete (times may vary due to the printer's schedule). Work with our designer to customize a catalog that is unique and properly represents your company.

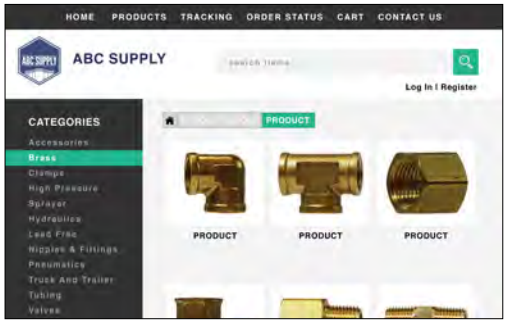
Custom Catalogs have list prices so your sales team can use to sell to your customers.





SHOP.BRASSCATALOG

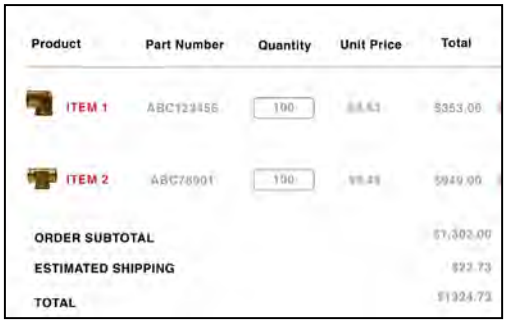
Midland Industires will provide you with a fully functional branded E-commerce site, preloaded with every one of Midland's 40,000 items.



HOW IS IT USED?

Shop Brass Catalog (SBC) is an e-commerce platform we have developed for our customers to sell our products to their customers. Our customers can choose to have Midland fulfill the order or they can fulfill the order themselves.

SBC can be used as a Point of Sale system for showroom floor sales. Simply enter the order on the website while the customer is at the counter, get P.O. number from the customer and enter the order. Then simply use the site to log orders and bill them.



ADDITIONALFEATURES

- Easy Sign-Up
- Free Marketing Materials
- Cart and Checkout
- Admin Page

IDENTIFICATION TAGS

Tags and packing slips are printed with your company information.

SHIPPING

Shipped in a blank box, with no reference to Midland anywhere.

GET STARTED TODAY

MidlandIndustries.com/marketing

PRIVATE LABELING

Private label shipments with your logo on boxes, packing slips and product labels.

SHIPPED HOW YOU WANT IT, TODAY!

Last year, Midland Industries shipped over 17,000 private labeled packages for our customers. Our customers trust Midland with their customers! Private-labeled packages are shipped in generic boxes with your return shipping information on the pack list and a generic UPS label; Midland isn't referenced anywhere on the shipment. Using this program you have access to an additional 40,000 items without investing in additional inventory. Drive up your profits-not your inventory costs-by using Midland Industries' Private Label Shipping.

PERSONALIZED

Print labels with pictures and barcodes.

SCAN

Using the MIdland Metal mobile app you can scan the labels to check stock and place orders.

CUSTOMER SERVICE

Put your custom labels on your customer's bins.

GET STARTED TODAY

MidlandIndustries.com/marketing

BIN LABELS ON DEMAND

Now you can create and print personalized Bin Labels on demand for any product that Midland carries. Labels can be customized with your logo or name. Multiple sizes available.

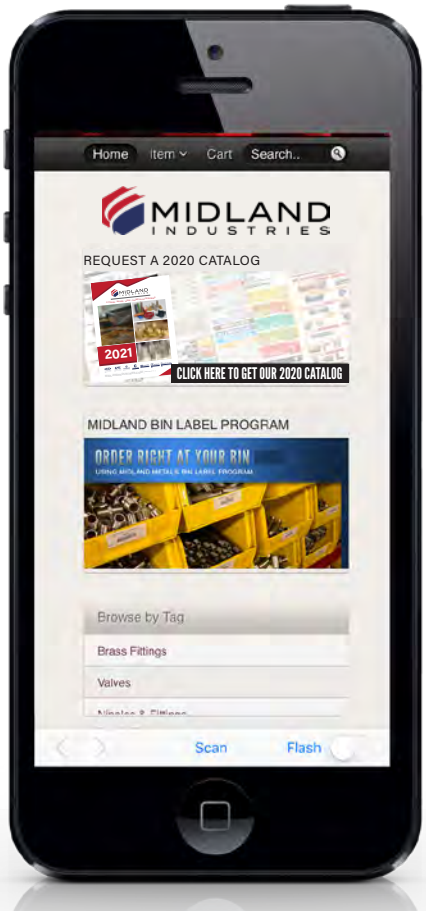
4" x 2"

3.5" x 2"

2.625" x 1"

BIN LABELS FOR MIDLAND PRODUCTS

Looking for a way to keep your foot in the door with your customers? Try labeling their bins. Using easy-to-follow steps, you're able print labels with pictures and barcodes. Then, using the Midland app, scan the labels on the bins to place orders. Not only will you save time with stock replenishment, you will improve your relationship with your customers as well.



CHECK STOCK/PRICING

The mobile app gives you quick access to stock and pricing on your displayed items.

SEARCH

Search for products by part number or keyword. Browse by category or type.

CUSTOMER SERVICE

Manage your customer's inventory by using your custom bin labels. Scan for quick reordering.

GET STARTED TODAY

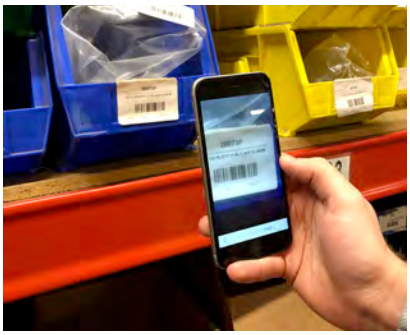
MidlandIndustries.com/marketing

MOBILE APP

Use the app to scan bin labels on location to quickly re-order, check stock or pricing. Save orders to submit later.

SCAN BIN LABELS FOR EASY ACCESS

You can affix these bin labels on your bins and/or your customer's bins. Use the app on your smartphone to quickly scan labels for re-order or to save orders to place at the end of the day.



PDF CATALOG
Full color or black/white PDF catalog online.

PRINT
Print by product category or page. Available in color or black/white.

GET STARTED TODAY
MidlandIndustries.com/marketing

BRASSCATALOG.COM

Brasscatalog.com is an unbranded sales and marketing tool. Use it to provide your customers with specifications, pictures and pricing. With no reference to Midland. Your customers can access over 40,000 products by product category.

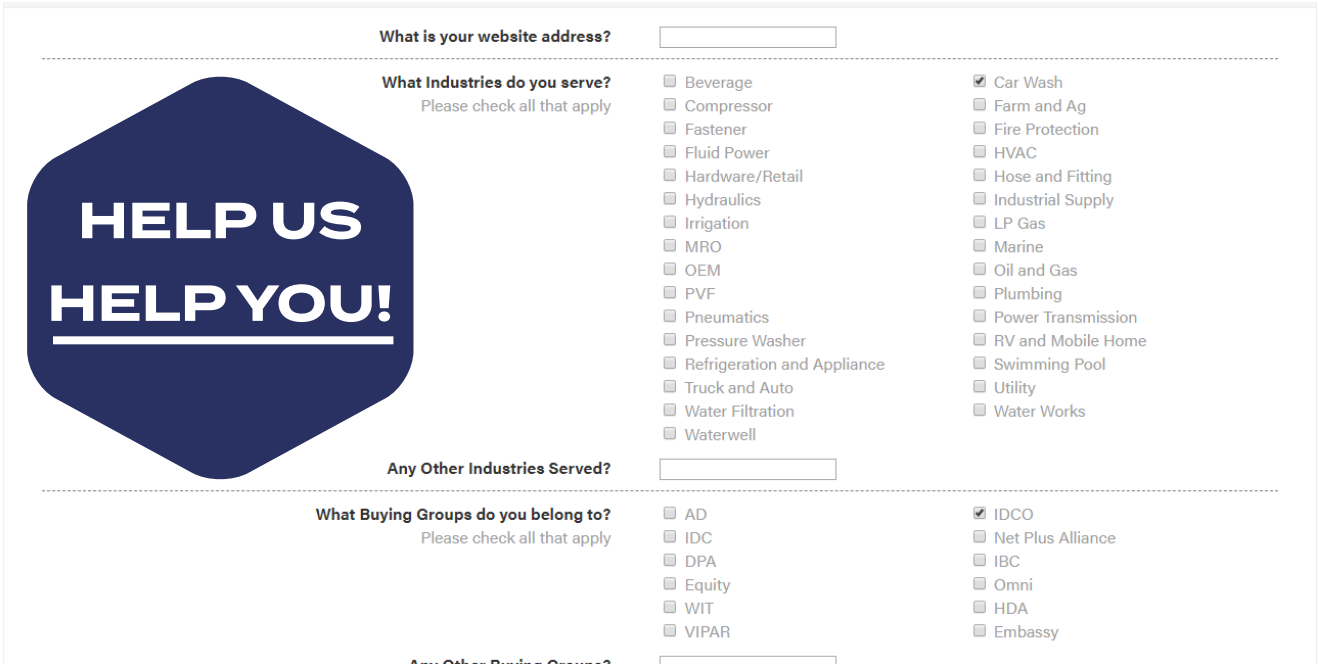
Online, download or print a generic line card, pictorial index and product category pages with no reference to Midland Industries.

Access catalog pages with list prices so your sales team can use to sell to your customers.

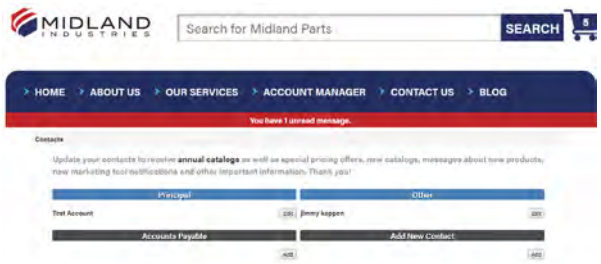
CUSTOMER PROFILE

To better serve you, Midland has added a customer profile page to the account manager tab on **midlandindustries.com**. We want to ensure that we are sending the right information to the right people. Please take a minute to make sure your information is up to date. Thank You!

Purchasing: New product information, Order acknowledgement, Updated pricing, Specials
Sales and Marketing: Suite of marketing tools, Library of sales resources
Accounting: Invoices, Payment information

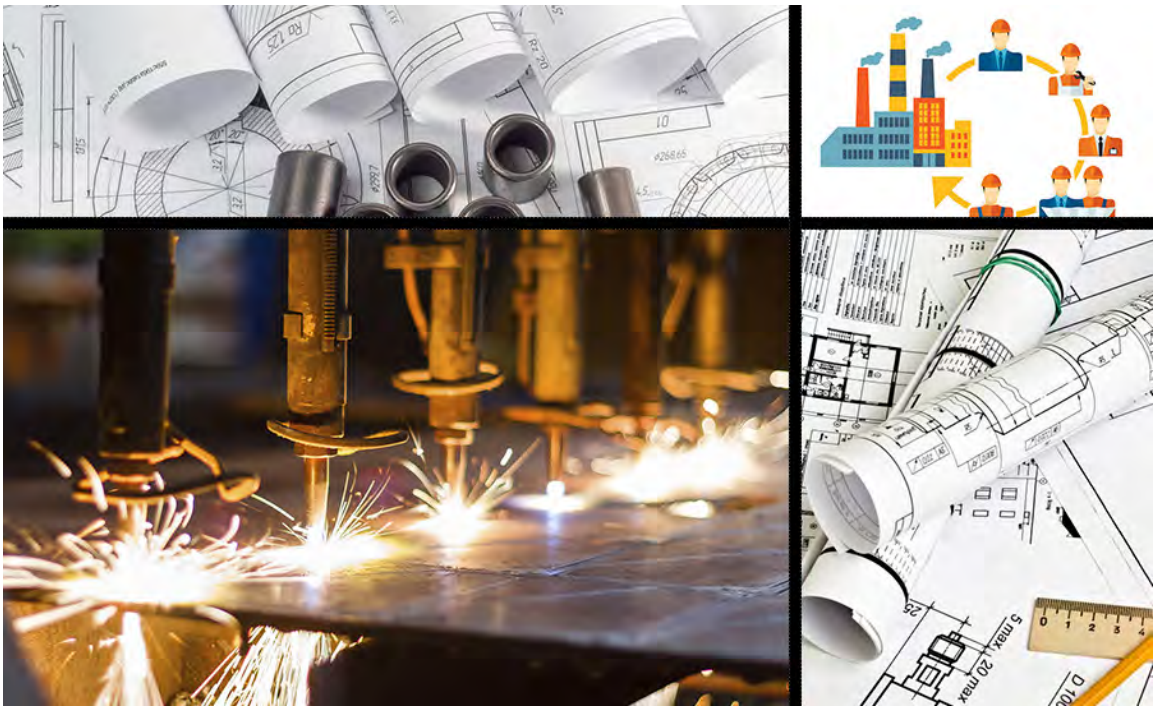


HELP US HELP YOU!



UPLOAD YOUR LOGO IN ACCOUNT MANAGER TO UTILIZE ALL OF OUR CUSTOMIZABLE MARKETING TOOLS!

To access your customer profile, log in to your account manager and select the profile tab along the top menu.



MIDLAND OEM SOLUTIONS

In an ever changing global business environment, all applications are not created equal. As an OEM partner, Midland can help the distributor work with Original Equipment Manufacturers and specify solutions in order to make informed purchasing decisions around technology, applications and relevant specification requirements.

Certain OEM applications require specific fittings, hoses, clamps and valves. For example, your application may require easier installation, a globally available product, or extended life among other critical features. No matter what the application, Midland is prepared to meet the demands of your end user business with our OEM solutions and equipment.

When you work with Midland, you are getting a Midland designed product made worldwide in our factories in the US, Asia and Europe, assembled by dedicated employees. Therefore, as an OEM wholesale partner, Midland Industries can promise premier customer service, high quality manufacturing standards, on-time delivery and a philosophy of continuous improvement. This allows the distributor to remain competitive in the marketplace and achieve growth objectives on new and existing projects.

As part of the Midland OEM program, you can expect increased co-marketing opportunities, better market planning with our sales force, and improved customer engagement with co-managed objectives.

INNOVATIVE THINKING. INNOVATIVE SOLUTIONS.

PARTNERING FOR YOUR SUCCESS!

Ask about our OEM Solutions – contact specials@midlandindustries.com to get started today.

DOMESTIC MANUFACTURING

Midland Industries is a leading manufacturer of our MAF™ brand of industrial fitting products for use by OEM's and wholesale distributors.

Midland Industries Engineering and Design team works closely with OEM's in the automotive, trucking, HVAC, industrial, consumer and commercial electronics and appliances and fluid industries. We take original design concepts, sometimes drawn on nothing more than a lid of a pizza box over lunch and move them seamlessly from CAD drawing phase, prototype phase, sample production phase and final production in a matter of weeks instead of months. This is done by using a variety of CNC machine tools and our facilities at our disposal. This includes "Miltronics Vertical Machining Center", "Okuma Turning Centers" and Miyano Machining Centers complete with "Live Tooling" on both long and short beds to create specialty custom parts. At the same time, we achieve maximum quality, efficiency and cost savings for the customer.

COMMITTED TO BEING AN INDUSTRY LEADER

IN ENVIRONMENTAL "BEST PRACTICES" AND WILL APPLY IT TO ALL ASPECTS OF OUR BUSINESS.

In addition to our MAF™ brand brass fittings, Midland Industries is a major supplier of **chrome-plated** and **nickel-plated brass fittings** as well as **black and galvanized malleable iron pipe fittings, stainless steel pipe fittings, cast bronze fittings and red brass pipe nipples** along with a wide variety of plumbing installation and repair specialty products.

TO FIND OUT MORE OR TO HAVE YOUR SPECIALTY PARTS QUOTED VISIT:

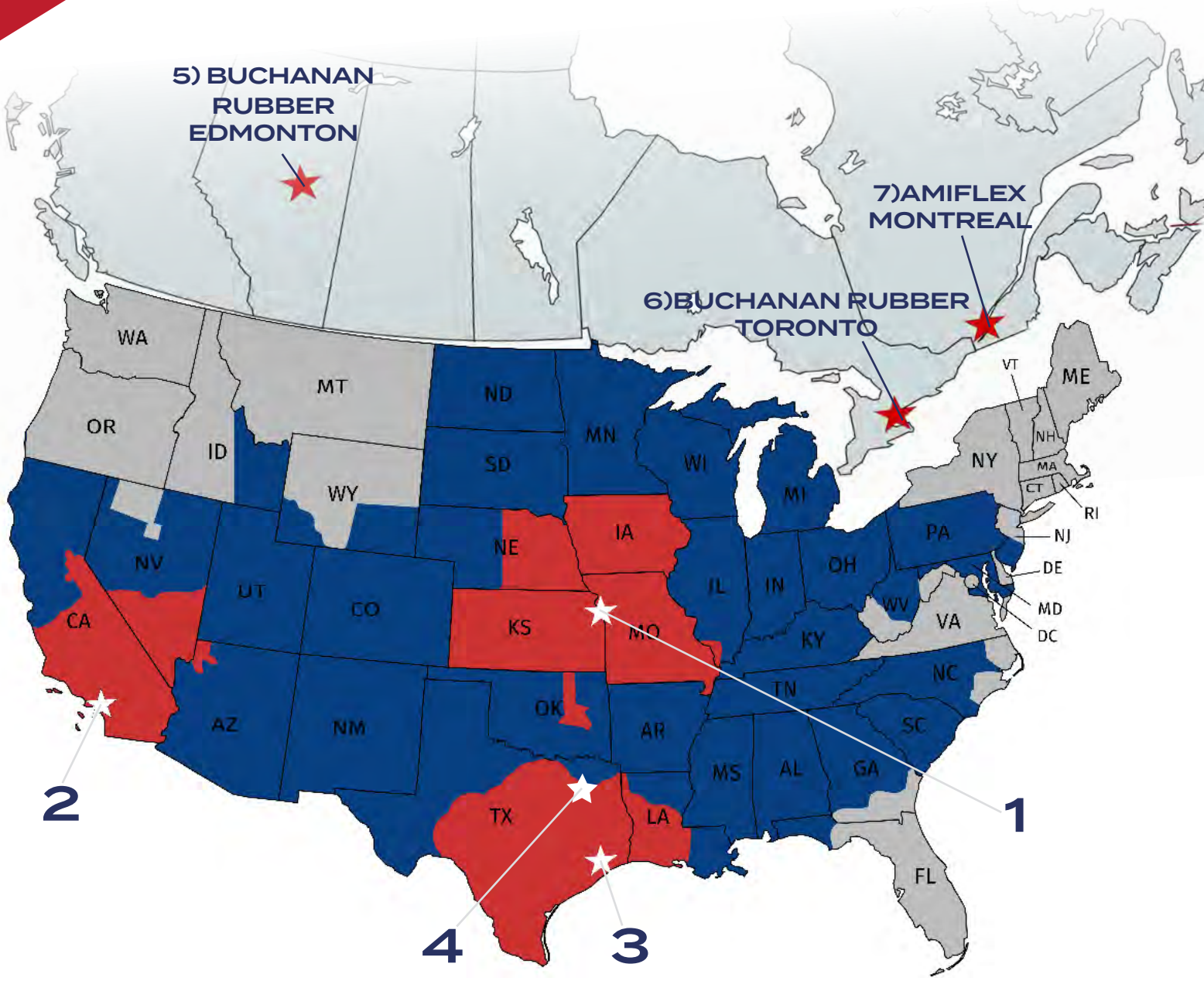
MIDLANDINDUSTRIES.COM/MANUFACTURING

MIDLAND INDUSTRIES

Fax 1-800-877-5391

sales@midlandindustries.com

MIDLAND INDUSTRIES DISTRIBUTION



UPS GROUND TIME IN TRANSIT

NEXT DAY DELIVERY

3 DAY DELIVERY

2 DAY DELIVERY

*2 Day Delievery is determined by warehouse location and inventory at specified location.

* For detailed UPS Ground time in transit maps please visit **www.UPS.com/maps**

DISTRIBUTION LOCATIONS

1) MIDWEST DISTRIBUTION
Full Stocking Location
3145 Oak Street
Kansas Ciy, MO 64111

2) WEST COAST DISTRIBUTION
Full Stocking Location
659 E Ball Rd
Anahiem, CA 92805

3) TEXAS DISTRIBUTION
Full Stocking Location
5544 Armour Drive,
Houston, TX 77020

4) TEXAS DISTRIBUTION
Full Stocking Location
600 E. Centre Park
DeSoto, TX 75115

MIDLAND INDUSTRIES CUSTOMER SERVICE
Phone: 800-821-5725
Fax: 800-877-5391
Email: Sales@MidlandIndustries.com
www.MidlandIndustries.com

You can easily check stock and availability for products at these locations online using Account Manager. All accounting will be handled in Kansas City.

CANADIAN DISTRIBUTION

5) BUCHANAN RUBBER-EDMONTON
9547-12 Ave SW,
Edmonton, AB T6X-0C3
Phone: 1-888-775-4673
Fax: 1-888-990-4673
Sales@BuchananRubber.com

6) BUCHANAN RUBBER-TORONTO
50 Fasken Drive
(units 11-21),
Etobicoke, ON M9W-1K5
Phone: 1-888-775-4673
Fax: 1-888-990-4673
Sales@BuchananRubber.com

7) AMIFLEX-MONTREAL
9555 Henri Bourassa Ouest,
Montreal, QC H4S-1S7
Phone: 1-888-775-4673
Fax: 1-888-990-4673
Sales@BuchananRubber.com

Canadian operations serviced through our Edmonton, Toronto & Montreal distribution centers. For more information call customer service at 1-800-775-HOSE (4673)

BRASS
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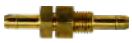
TUBE BARB PG 26	UNION SINGLE BARB PG 26	MALE ADAPTER 1 BARB PG 26	FEMALE ADAPTER PG 26	BULKHEAD UNION  PG 26	UNION ELBOW PG 26	MALE 90° ELBOW PG 26	FEMALE 90° EL PG 26	1 BARB TEE PG 26
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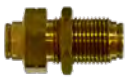
FIXED M. RUN T PG 100	SWVL M. BRANCH PG 100	FIX M. BRANCH T PG 100	UNION "Y" PG 101	BULKHEAD UNION  PG 101	FE. BLKHD UNION PG 101	CROSS PG 101	REDUCER PG 101	PLASTIC PLUG PG 101

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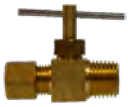
NEEDLE VALVES PG 158	COMP X MALE  PG 158	COMP X M ANGLE PG 158	COMP X COMP PG 158	FLARE X MALE PG 158	FLARE X MALE PG 159	FLARE X FLARE PG 159	AIR VENT PG 159	MALE TO MALE PG 159
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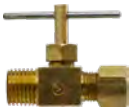
ICE MAKER KIT PG 197	L/F NEEDLE VALVES PGS 198-199	COMP NEEDLE VLV PG 198	COMP X MIP NDL VLV  PG 198	COMP X M ANGLE PG 198	FL X FL NEEDLE VALVE PG 198	FL X MIP NEEDLE VALVE PG 198	FIP X FIP NEEDLE VALVE PG 198	M X F PIPE PG 198
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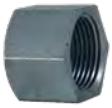
OUTLET ELBOW PG 345	GALV FLR FLANGE PG 346	BLK FLR FLANGE PG 346	EXTENSION PG 346	SHROOM CAP PG 346	**STEEL FITTINGS PG 347**	GALV HEX BUSH PG 347	BLK HEX BUSH PG 347	GALV CAP  PG 347
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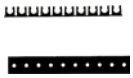
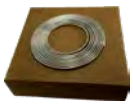
PLASTIC TUBE CUT PG 478	MOUNTING RACK  PG 478	ALUMINUM  PG 479	COPPER TUBE PG 479	SOFT COPPER PG 479	**PRESSURE SPRAYERS PG 480**	QD NOZZLE PG 481	MEG NOZZLE PG 481	RUBBER TIP PG 482
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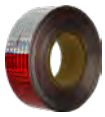
DEER WHISTLE PG 527	CONSP TAPE  PG 528	TARP STRAP PG 528	DOT TUBING PG 529	FUEL LINE PG 530	AIR BRAKE HOSE PG 530	HYDRAULICS PG 531	STEEL PIPE SWIVEL PG 540	M. SWL ADAPTER PG 540
FE. SWL ADAPTER PG 540	M. ELB ADAPTER PG 540	FE. UNION ELB. PG 540	M. 45° ELBOW PG 541	FE. 45° UNION PG 541	M. SWL TEE PG 541	FE. SWL TEE PG 541	FE. SWL TEE PG 541	JIC FLARE PG 542
LONG JIC NUT PG 542	JIC CAP PG 542	JIC TUBE NUT PG 542	JIC TUBE SLEEVE PG 542	JIC TUBE UNION PG 542	JIC M. CONN PG 543	JIC FE. CONN PG 543	JIC RED/EXP PG 544	PLUG PG 544
JIC UNION ELB. PG 544	JIC M. ELBOW PG 545	JIC M. ELBOW PG 545	MALE 45° ELBOW PG 545	M. BRANCH TEE PG 546	JIC FE. TEE PG 546	JIC UNION TEE PG 546	LOCKNUT PG 546	JIC BULK UNION PG 546

HYDRAULICS
PICTORIAL INDEX

BULK UNION ELB PG 547	45° UNION ELB PG 547	BULK BRANCH T PG 547	BULK RUN TEE PG 547	JIC TO FEMALE PG 547	JIC TO MALE PG 547	**STEEL PIPE FITTINGS PG 548**	PIPE COUPLING PG 548	HEX PIPE NIPPLE PG 548
EXP/ PIPE ADAP PG 548	HEX RED/ BUSH PG 549	HEX HEAD PLUG PG 549	HOLLOW HEX PLG PG 549	FLUSH HLW PLUG PG 549	SQR HEAD PLUG PG 549	PIPE CAP PG 550	MALE ELBOW PG 550	45° M. ELBOW PG 551
90° ST ELBOW PG 551	45° ST ELBOW PG 551	FE. ELBOW PG 551	45° FE. ELBOW PG 551	MALE PIPE TEE PG 552	FE. PIPE TEE PG 552	ST PIPE TEE PG 552	FE. RUN PIPE T PG 552	MALE PIPE TEE PG 552
FE. PIPE TEE PG 552	**STEEL O-RING ADAPTERS PG 553**	JIC TO O-RING PG 553	O-RING TO PIPE PG 553	O-RING TO 37° PG 553	O-RING UNION PG 553	FE. O-RING PG 554	O-RING TO FE. PG 554	O-RING PLUG PG 554
O-RING HLW PLG PG 554	O-RING PORT PG 555	**JIC SWIVEL PG 555**	JIC SWL ELBOW PG 555	JIC SW X MIP PG 555	JIC SWL 45° PG 555	JIC SWL TO F 90° PG 555	JIC SWL CONN PG 556	JIC SWL TO M PG 556
JIC SWL TOF ADP PG 556	JIC SWL BRANCHT PG 556	JIC SWL RUN T PG 556	**JIC O-RING PG 556**	JIC RUN TEE PG 556	JIC TO ORING 90° PG 557	JIC TO ORING 45° PG 557	JIC BRANCH TEE PG 557	ORING TO F 90° PG 557
ORING TO M 90° PG 558	ORING JIC 90° PG 558	F TO M ORING 90° PG 558	M ORING SWL AD PG 558	90° ORING SWL PG 559	45° ORING SWL PG 559	O-RING PG 559	NITRILE O-RING PG 559	BRAZE TUBE NUT PG 559
BRAZETUBE SLV PG 560	CAP PG 560	BULKHEAD LKNUT PG 560	MALE UNION PG 560	FACE SEAL ADPT PG 560	FE ORFS X ORFS PG 560	PLUG PG 561	ORFS UNION 90° PG 561	ORFS TO M 90° PG 561

STAINLESS STEEL
PICTORIAL INDEX

ORFS TO PIPE PG 561	ORFS UNION T PG 561	M ORFS TO PG 562	M TO F 37° SWL PG 561	SWL NUT PG 562	37° SWIVEL PG 562	O-RING ELBOW PG 562	ORFS TO 45° PG 562	SWIVEL ELBOW PG 563
STEEL BSPT ADAPTERS PG 563	JIC BSPT PG 563	BSPT ELBOW PG 563	HEX NIPPLE PG 563	PLUG PG 563	HEX NIPPLE PG 563	COUPLING PG 564	FEMALE PG 564	ELBOW PG 564
45° ELBOW PG 564	MALE NIPPLE PG 564	MALE BSPP PG 564	SWIVEL BSPP PG 565	PLUG BSPP PG 565	HOLLOW BSPP PG 565	FEMALE BSPP PG 565	**METRIC PG 565**	MALE CONNEC-TOR PG 565
MALE ELBOW PG 566	STRAIGHT SWIVEL PG 566	METRIC PARAL-LEL PG 566	HOLLOW PG 566	FEMALE ADAPTER PG 566	**ISO A & B INTERCHANGE PG 567**	NO SPILL PG 567	DRYBREAK PG 567	ISO-A COUPLER PG 567
ISO-A PLUG PG 567	ISO-B COUPLER PG 567	ISO-B PLUG PG 567	FLUSH FACE PG 568	FLUSH FACE PG 568	LSQ SERIES	LSQ SERIES PG 568	AG SERIES PG 569	KZE SERIES PG 569
FLOW CONTROL PG 570	FLOW VALVE PG 570	NEEDLE VALVE PG 570	PRESSURE VALVE PG 571	JIC FLANGE PG 573	JIC FLANGE PG 573	JIC FLANGE PG 573	FLANGE KIT PG 574	FLANGE KIT PG 574
SPLIT FLANGE PG 574	FLANGE PLUG PG 574	FLANGE HALF PG 575	FLANGE PAD PG 575	FLANGE HALF PG 575	**STAINLESS STEEL ADAPTERS PG 579**	PIPE SWIVEL PG 579	PIPE SWIVEL PG 579	TUBE SLEEVE PG 580
TUBE NUT PG 580	CAP PG 580	MALE ADAPTER PG 581	UNION PG 581	FEMALE ADAPTER PG 582	PLUG PG 582	MJIC X FJIC PG 582	BULKHEAD NUT PG 583	FEMALE BULK-HEAD PG 583

STAINLESS STEEL
PICTORIAL INDEX

BULKHEAD PG 583	BULKHEAD PG 583	PIPE NIPPLE PG 584	HEX PIPE PG 584	COUPLING PG 584	ADAPTER PG 585	PLUG PG 585	PLUG PG 585	BUSHING PG 585
CAP PG 586	STREET ELBOW PG 586	MALE ELBOW PG 586	ALL MALE TEE PG 587	ELBOW PG 587	TEE PG 587	MORB X FIP PG 588	BOSS X JIC SW PG 588	MJIC X MORB PG 588
PLUG PG 589	PLUG PG 589	FIP X FJIC SWIVEL PG 590	MIP X FJIC SWIVEL PG 590	MALE API PG 591	JIC 90 SWIVEL PG 591	FEMALE CRIMP PG 591		

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STAINLESS STEEL HYDRAULIC ADAPTERS

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PIPE FITTINGS

Pipe Size	1/16	1/8	1/4	3/8	1/2	3/4	1
Thread Size	1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11 1/2
Working Pressure	1200	1200	1200	1200	1200	1000	1000
Thread OD	1/4	3/8	1/2	5/8	3/4	1	1-1/4

Typical Application: Grease, fuels, LP and Natural gas (available on special order), refrigeration, instrumentation and hydraulic systems.

Pressure: Operating pressure up to 1200 PSI.
Vibration: Fair resistance.
Temperature Range:
-65^{0}F to +250^{0}F (-53^{0}C to +121^{0}C).

Used With: Brass, bronze, copper, steel, aluminum and iron pipe.

Tolerance : +/- .02 on all dimensions. Dimension Data can change without notice. Please call us when dimensions are critical.

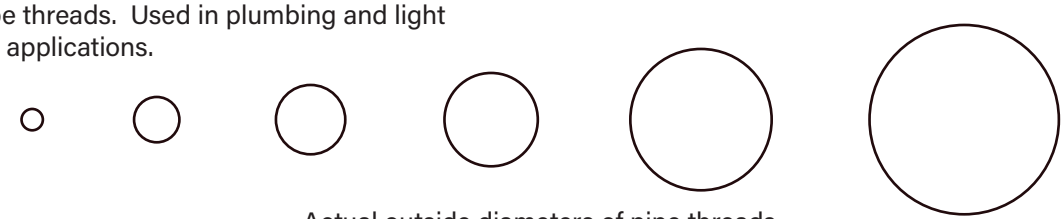
Conformance: Meets specifications and standards of ASA, ASME and SAE

- Not lead free
- **"L" at the end of a Part# means Light Pattern**

- these fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

- **Assembly Instructions**

1 - Tighten approximately 2-1/2 turns past hand tight.
2 - Fittings with Everseal tighten two turns past hand tight. Brittle materials require special cautions.



Actual outside diameters of pipe threads

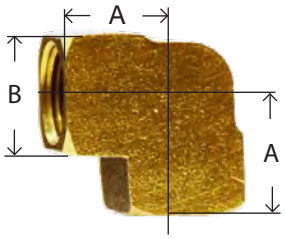
Actual Male Thread Profiles

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

90° FEMALE ELBOW

SAE# 130238

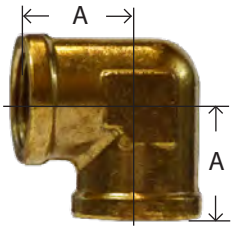


100

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28001	1/8″	0.55	0.56	0.09	---
28002	1/4″	0.78	0.68	0.13	---
28003	3/8″	0.84	0.81	0.16	---
28004	1/2″	1.09	1.00	0.34	---
28005	3/4″	1.16	1.25	0.60	---
28015B	3/8" x 1/4"	0.84	0.81	0.18	---
28053B	1/2" x 1/4"	1.09	1.00	0.37	---
28016B	1/2" x 3/8"	1.09	1.00	0.36	---

100 2200P 3500 302 200

90° FORGED FEMALE ELBOW

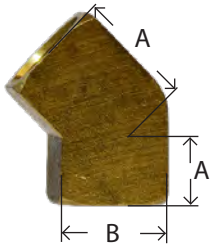


100F

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28009	1/8″	0.57	0.50	0.04	---
28010	1/4″	0.70	0.68	0.10	---
28011	3/8″	0.81	0.81	0.12	---
28012	1/2″	1.00	1.00	0.23	---
28013	3/4″	1.13	1.25	0.42	---
28014	1/4″ x 1/8″	0.72	0.65	0.12	---
28015	3/8″ x 1/4″	0.81	0.81	0.15	---
28016	1/2″ x 3/8″	1.00	1.00	0.28	---
28017	1"	1.42	1.50	0.75	---

1200P E7 100AF 100B

45° FEMALE ELBOW



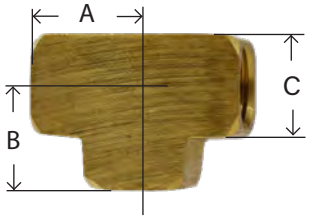
10045

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28018	1/8″	0.45	0.56	0.06	---
28019	1/4″	0.66	0.68	0.12	---
28020	3/8"	0.69	0.81	0.16	---
28021B	1/2"	0.94	1.00	0.25	---

129 2201P 205 23355 45EZ 105 100-45A

UNION TEE

SAE# 130438

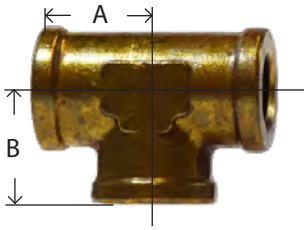


101

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	LIST PRICE
28022	1/16"	0.55	0.55	0.58	0.11	---
28024	1/8″	0.55	0.55	0.56	0.08	---
28025	1/4″	0.78	0.78	0.68	0.17	---
28026	3/8″	0.84	0.84	0.81	0.22	---
28027	1/2″	1.09	1.09	1.00	0.43	---
28028	3/4″	1.16	1.16	1.25	0.64	---

311 101A 322 2203P 3700 203

UNION FORGED TEE



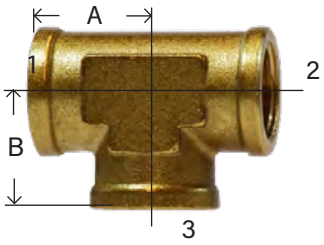
101F

PART #	THREAD SIZE NPTF	A & B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28032	1/8″	0.56	0.50	0.06	---
28033	1/4″	0.71	0.68	0.13	---
28034	3/8″	0.81	0.81	0.16	---
28035	1/2″	1.00	1.00	0.27	---
28036	3/4″	1.16	1.25	0.53	---
28023	1″	1.42	1.50	.924	---

1203P LT7 101AF 101B

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

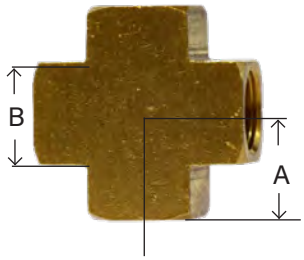
REDUCING FORGED TEES



101FR

PART #	1 NPT	2 NPT	3 NPT	A & B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28029	1/8"	1/8"	1/4"	0.72	0.69	0.16	---
28030	1/4"	1/4"	1/8"	0.72	0.69	0.14	---
28031	1/4"	1/4"	3/8"	0.81	0.81	0.21	---
28038	3/8"	1/4"	3/8"	0.81	0.81	0.18	---
28039	3/8"	3/8"	1/4"	0.81	0.81	0.18	---
28046	1/2"	1/2"	3/8"	1.00	1.00	0.30	---
28047	3/4"	1/2"	3/4"	1.20	1.25	0.59	---
28048	3/4"	3/4"	1/2"	1.16	1.25	0.59	---

CROSS

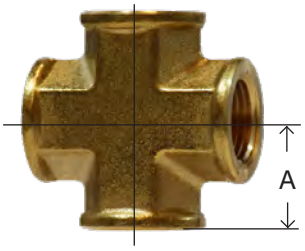


102

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28041	1/8"	0.55	0.56	0.10	---
28042	1/4"	0.78	0.68	0.21	---
28043	3/8"	0.84	0.81	0.25	---
28044	1/2"	1.09	1.00	0.51	---
28045	3/4"	1.16	1.25	0.75	---

2205P 3950 228 102A 102BE

FORGED CROSS



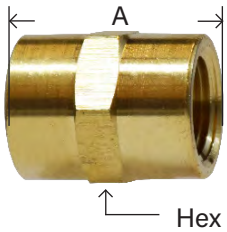
102F

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28049	1/8"	0.56	0.50	0.06	---
28050	1/4"	0.72	0.69	0.15	---
28051	3/8"	0.81	0.81	0.18	---
28052	1/2"	1.00	1.00	0.34	---

C7 105 102AF 102B

COUPLING

SAE# 130138



103

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28057	1/16"	0.75	0.44	0.02	
28058L	1/8"	0.75	0.50	0.02	---
28058	1/8"	0.75	0.56	0.03	---
28059L	1/4"	0.88	0.63	0.03	---
28059	1/4"	1.12	0.75	0.09	---
28060L	3/8"	1.00	0.81	0.06	---
28060	3/8"	1.12	0.87	0.10	---
28061L	1/2"	1.19	0.93	0.09	---
28061	1/2"	1.50	1.06	0.19	---
28062L	3/4"	1.19	1.25	0.18	---
28062	3/4"	1.53	1.25	0.24	---
28063	1"	1.89	1.50	.357	---

207P 371 3300 103AH 103B

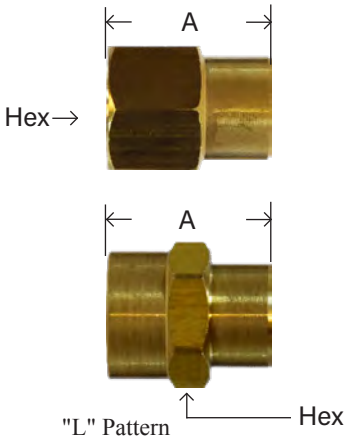
DIMENSION DATA CAN CHANGE WITHOUT NOTICE. PLEASE CHECK WHEN DIMENSIONS ARE CRITICAL.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

REDUCING COUPLING

SAE# 130138



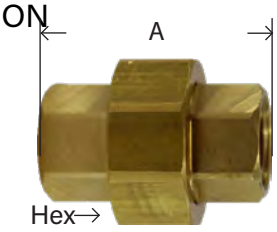
119

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28181L	1/4" x 1/8"	0.94	0.62	0.04	---
28181	1/4" x 1/8"	0.97	0.75	0.08	---
28182	3/8" x 1/8"	0.94	0.87	0.10	---
28183L	3/8" x 1/4"	1.00	0.81	0.06	---
28183	3/8" x 1/4"	1.16	0.87	0.12	---
28180*	1/2" x 1/8"	1.19	0.93	0.15	---
28184L	1/2" x 1/4"	1.11	1.00	0.10	---
28184	1/2" x 1/4"	1.28	1.06	0.20	---
28185L	1/2" x 3/8"	1.19	0.93	0.10	---
28185	1/2" x 3/8"	1.38	1.06	0.20	---
28187	3/4" x 1/4"	1.19	1.19	0.17	---
28188*	3/4" x 3/8"	1.32	1.37	0.20	---
28189*	3/4" x 1/2"	1.19	1.18	0.14	---
28178	1" x 1/2"	1.50	1.56	0.41	---
28179	1" x 3/4"	1.56	1.56	0.39	---

*Not to SAE specs

377 3300 208P 108 119B 119AH

UNION

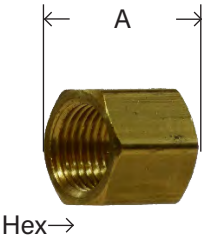


104

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28067	1/8"	1.25	0.94	0.13	---
28068	1/4"	1.31	1.06	0.18	---
28069	3/8"	1.75	1.25	0.33	---
28070	1/2"	1.79	1.56	0.50	---
28071	3/4"	1.96	1.68	0.47	---

3250 212P 104A 104B

CAP



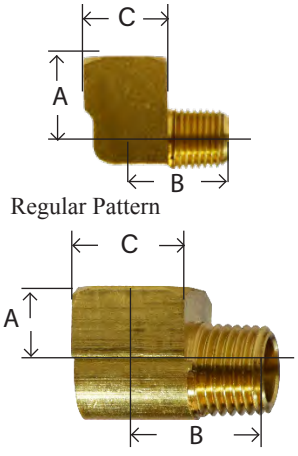
108

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28075	1/8"	0.47	0.56	0.03	---
28076	1/4"	0.60	0.68	0.04	---
28077	3/8"	0.69	0.81	0.06	---
28078	1/2"	0.78	0.93	0.08	---
28079	3/4"	0.94	1.25	0.16	---
28080	1"	1.13	1.50	0.23	---

3129 213P 23129 108A 108B

90˚ STREET ELBOW

SAE# 130239



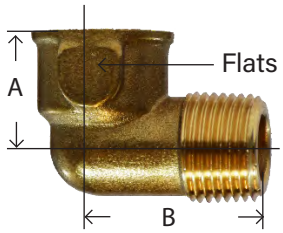
116

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	LIST PRICE
28161	1/16"	0.69	0.60	0.47	0.04	---
28156	1/8"	0.48	0.66	0.56	0.05	---
28156S	1/8" short	0.34	0.57	0.50	0.03	---
28157	1/4"	0.72	0.91	0.735	0.09	---
28157S	1/4" short	0.45	0.78	0.68	0.07	---
28158	3/8"	0.78	0.97	0.81	0.16	---
28159	1/2"	1.03	1.25	1.00	0.33	---
28160	3/4"	1.12	1.38	1.25	0.52	---

2202P 304 115 202 3400 116A

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FORGED 90° STREET ELBOW

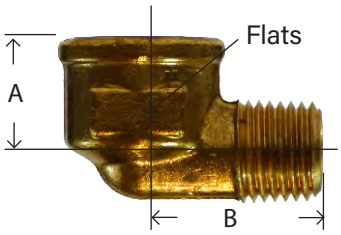


116F

PART #	THREAD SIZE NPTF	A	B	WRENCH FLATS	APPROX. WT. LBS.	LIST PRICE
28165	1/8″	0.61	0.85	0.62	0.06	---
28166	1/4″	0.50	0.86	0.72	0.08	---
28167	3/8″	0.70	1.00	0.88	0.10	---
28168	1/2″	0.96	1.43	1.00	0.20	---
28169	3/4″	0.90	1.40	1.25	0.25	---

5E8 1202P 116AF 116B

FORGED REDUCING 90° STREET ELBOW



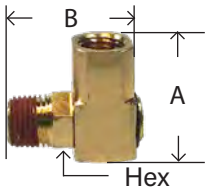
128

*Barstock

PART #	THREAD SIZE NPTF FXM	A	B	WRENCH FLATS	APPROX. WT. LBS.	LIST PRICE
28259*	1/8" x 1/16"					---
28260	1/8″ x 1/4″	0.50	0.87	0.71	0.08	---
28261B*	1/4″ x 1/8″	0.53	0.72	0.69	0.07	---
28261	1/4″ x 1/8″	0.50	0.81	0.72	0.06	---
28262	1/4″ x 3/8″	0.93	1.06	0.59	0.12	---
28263	3/8″ x 1/4″	0.58	0.94	0.81	0.07	---
28264	3/8″ x 1/2″	0.97	1.36	1.00	0.28	---
28265	1/2″ x 3/8″	0.96	1.37	1.00	0.22	---
28265B*	1/2" x 3/8"	1.03	1.11	1.00	0.24	---

PIPE SWIVEL 90° STREET ELBOW

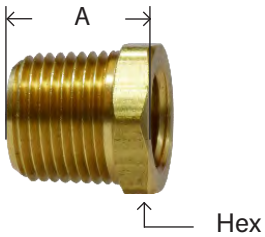
▪ Burst Pressure 1,200 PSI ▪ Working Pressure 300 PSI



PART #	MIP XFIP THREAD SIZE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
28430	1/4″	1.18	1.25	.625	0.22	---

HEX BUSHING

SAE# 130140



110

PART #	THREAD SIZE NPTF MXF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28101	1/8" x 1/16"				
28102L	1/4″ x 1/8″	0.62	0.56	0.02	---
28102	1/4″ x 1/8″	0.75	0.56	0.04	---
28103	3/8″ x 1/8″	0.75	0.68	0.05	---
28104L	3/8″ x 1/4″	0.69	0.68	0.03	---
28104	3/8″ x 1/4″	0.75	0.75	0.05	---
28105L	1/2″ x 1/8″	0.81	0.81	0.08	---
28105	1/2″ x 1/8″	1.00	0.87	0.10	---
28106L	1/2″ x 1/4″	0.81	0.81	0.08	---
28106	1/2″ x 1/4″	1.00	0.87	0.11	---
28107L	1/2″ x 3/8″	0.81	0.81	0.05	---
28107	1/2″ x 3/8″	1.00	0.87	0.10	---
28108	3/4″ x 1/8″	0.94	1.06	0.20	---
28109L	3/4″ x 1/4″	0.94	1.06	0.18	---
28110L	3/4″ x 3/8″	0.94	1.06	0.15	---
28111L	3/4″ x 1/2″	0.94	1.06	0.11	---
28111	3/4″ x 1/2″	1.00	1.12	0.14	---
28091	1" x 1/8"	1.15	1.37	0.29	---
28112	1″ x 1/4″	1.15	1.37	0.32	---
28113	1″ x 3/8″	1.12	1.37	0.30	---
28114	1″ x 1/2″	1.31	1.44	0.29	---
28115	1″ x 3/4″	1.31	1.37	0.20	---

373 3220 209P 110A 110B

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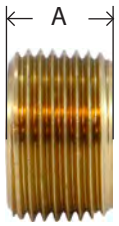
PIPE
BRASS FITTINGS

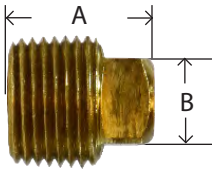
FACE BUSHING



110F

PART #	THREAD SIZE NPTF MXF	A	APPROX. WT. LBS.	LIST PRICE
28121	1/4" x 1/8"	0.45	0.01	---
28122	3/8" x 1/8"	0.50	0.03	---
28116	3/8" x 1/4"	0.50	0.02	---
28090	1/2" x 1/8"	0.56	0.06	---
28128	1/2" x 1/4"	0.56	0.05	---
28117	1/2" x 3/8"	0.56	0.03	---
28129	3/4" x 1/4"	0.62	0.11	---
28130	3/4" x 3/8"	0.62	0.08	---
28118	3/4" x 1/2"	0.64	0.03	---
28120	1" x 1/2"	0.75	0.11	---
28119	1" x 3/4"	0.77	0.10	---

SQUARE HEAD PLUG
1/8 - 1/2 Solid



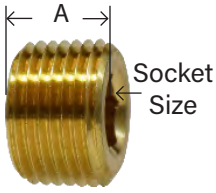
109

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28084	1/8"	0.58	0.27	0.02	---
28085	1/4"	0.80	0.37	0.03	---
28086	3/8"	0.80	0.43	0.06	---
28087	1/2"	1.07	0.55	0.13	---
28088**	3/4"	1.09	0.61	0.20	---
28089**	1"	1.24	0.81	0.35	---

** Cored

3151 211P 109A 109B

COUNTERSUNK HEX PLUG
3/4" taper thread

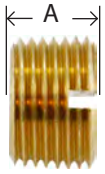


109AL

PART #	THREAD SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	LIST PRICE
28092	1/16"	0.30	0.12	0.01	---
28093	1/8"	0.30	0.18	0.01	---
28094	1/4"	0.45	0.26	0.02	---
28095	3/8"	0.45	0.31	0.03	---
28096	1/2"	0.61	0.39	0.05	---

3153 219P 109CS 118

SLOTTED-HEAD PLUG

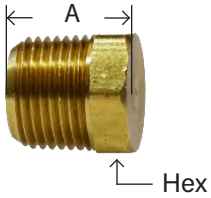


117

PART #	THREAD SIZE NPTF	A	APPROX. WT. LBS.	LIST PRICE
28174	1/8"	0.31	0.01	---
28175	1/4"	0.42	0.02	---
28176	3/8"	0.45	0.05	---

220P 3150 117A 117B

CORED HEX PLUGS



121

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28200	1/16"	0.48	0.38	0.01	---
28201	1/8"	0.55	0.43	0.01	---
28202	1/4"	0.62	0.56	0.02	---
28203	3/8"	0.72	0.68	0.06	---
28204	1/2"	0.81	0.87	0.09	---
28205	3/4"	0.94	1.06	0.16	---

218P 3152 121A 103 121B PPH 218P

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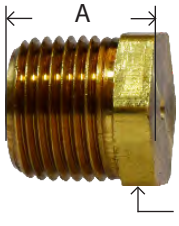
SOLID HEX HEAD PLUGS



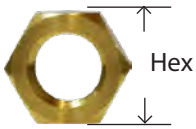
121S

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28201S	1/8′	0.55	0.43	0.02	---
28202S	1/4″	0.75	0.56	0.05	---
28203S	3/8″	0.66	0.68	0.07	---
28204S	1/2″	0.81	0.87	0.12	---
28205S	3/4″	0.92	1.06	0.24	---

121AS

LOCKNUT

- Jam Nuts
- Straight pipe thread

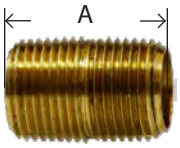


111

PART #	THREAD SIZE NPSL	HEX	THICKNESS	APPROX. WT. LBS.	LIST PRICE
28123	1/8″	0.68	0.19	0.02	---
28124	1/4″	0.87	0.25	0.04	---
28125	3/8″	1.00	0.31	0.04	---
28126	1/2″	1.125	0.25	0.04	---
28127	3/4"	1.38	0.38	0.09	---

210P 21102 111A 111B

CLOSE NIPPLE

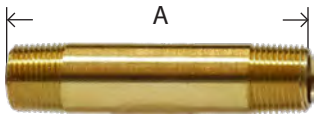


112

PART #	THREAD SIZE NPTF	A	APPROX. WT. LBS.	LIST PRICE
28131	1/8″	0.75	0.01	---
28132	1/4″	0.88	0.02	---
28133	3/8″	1.00	0.05	---
28134	1/2″	1.12	0.06	---
28135	3/4″	1.31	0.11	---

165 215PN 3326 112A 112B

LONG NIPPLE



113

- NOTE: For longer lengths and larger diameters, see our red brass nipples section.

PART #	THREAD SIZE NPTF	A LENGTH	APPROX. WT. LBS.	LIST PRICE
28140	1/8″	1.50	0.03	---
28141	1/8″	2.00	0.04	---
28142	1/8″	2.50	0.06	---
28143	1/8″	3.00	0.06	---
28475	1/8"	3.50	0.07	---
28144	1/4″	1.50	0.03	---
28145	1/4″	2.00	0.05	---
28146	1/4″	2.50	0.08	---
28147	1/4″	3.00	0.10	---
28481	1/4"	3.50	0.12	---
28148	3/8″	1.50	0.06	---
28149	3/8″	2.00	0.10	---
28150	3/8″	2.50	0.10	---
28151	3/8″	3.00	0.13	---
28487	3/8"	3.50	0.17	---
28152	1/2″	1.50	0.08	---
28153	1/2″	2.00	0.12	---
28154	1/2″	2.50	0.16	---
28155	1/2″	3.00	0.20	---
28493	1/2"	3.50	0.24	---
28136	3/4"	1.50	0.12	---
28497	3/4"	2.00	0.18	---
28498	3/4"	2.50	0.23	---
28499	3/4"	3.00	0.28	---

113B 113A 166 3327, 3328, 3329, 3330 3331 215PNL

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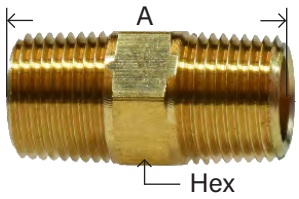
PIPE
BRASS FITTINGS

HEX NIPPLE

SAE# 130137



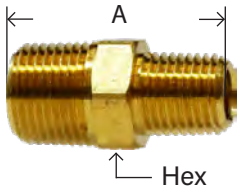
122

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28210	1/16"	0.97	0.38	0.02	---
28211L	1/8"	0.91	0.43	0.02	---
28211	1/8"	0.97	0.43	0.03	---
28212L	1/4"	1.12	0.56	0.04	---
28212	1/4"	1.38	0.56	0.06	---
28213L	3/8"	1.25	0.68	0.07	---
28213	3/8"	1.41	0.68	0.07	---
28214L	1/2"	1.50	0.87	0.11	---
28214	1/2"	1.81	0.87	0.17	---
28215L	3/4"	1.55	1.07	0.17	---
28215	3/4"	1.96	1.13	0.23	---
28216L	1"	1.75	1.39	0.22	---

216P 3325 379 122AH 122B

REDUCING HEX NIPPLE

SAE# 130137



123

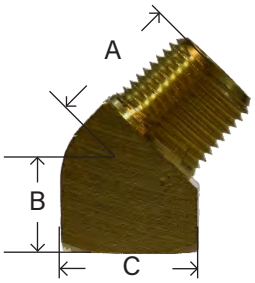
PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28218	1/8" x 1/16"	1.00	0.56	0.05	---
28220L	1/4" x 1/8"	1.00	0.56	0.04	---
28220	1/4" x 1/8"	1.19	0.56	0.04	---
28221L	3/8" x 1/8"	1.11	0.68	0.06	---
28221	3/8" x 1/8"	1.22	0.68	0.07	---
28222L	3/8" x 1/4"	1.19	0.68	0.06	---
28222	3/8" x 1/4"	1.41	0.68	0.07	---
28223L	1/2" x 1/4"	1.34	0.87	0.09	---
28223	1/2" x 1/4"	1.62	0.87	0.12	---
28224L	1/2" x 3/8"	1.41	0.87	0.11	---
28224	1/2" x 3/8"	1.62	0.87	0.12	---
28225L	3/4" x 1/2"	1.81	1.06	0.19	---
28225	3/4" x 1/2"	1.50	1.06	0.15	---
28227	1" x 3/4"	2.31	1.38	0.38	---

216P 3325 379 122AH 122B

45° STREET ELBOW

SAE# 130339

124

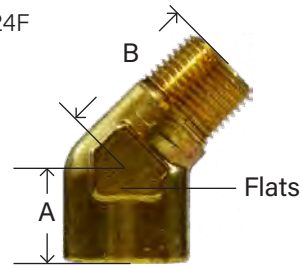


PART #	THREAD SIZE NPTF	B	A	C	APPROX. WT. LBS.	LIST PRICE
28230	1/8"	0.38	0.50	0.56	0.03	---
28231	1/4"	0.56	0.72	0.68	0.09	---
28232	3/8"	0.56	0.78	0.81	0.12	---
28233	1/2"	0.75	1.00	1.00	0.20	---
28234	3/4"	0.75	1.06	1.25	0.34	---

306 3350 2214P 224

45⁰ FORGED STREET ELBOW

124F



PART #	THREAD SIZE NPTF	A	B	WRENCH FLATS	APPROX. WT. LBS.	LIST PRICE
28238	1/8"	0.63	0.81	0.56	0.05	---
28239	1/4"	0.63	1.06	0.81	0.11	---
28240	3/8"	0.72	1.06	0.93	0.17	---

45E8 124B

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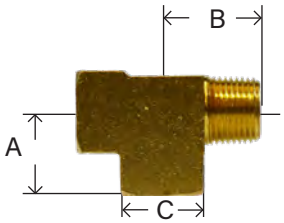
STREET TEE/ SERVICE TEE/ MALE RUN TEE

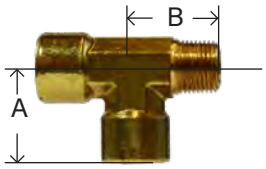
SAE# 130424



127

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	LIST PRICE
28245	1/8″	0.55	0.66	0.56	0.08	---
28246	1/4″	0.78	0.91	0.68	0.17	---
28247	3/8″	0.84	0.97	0.81	0.22	---
28248	1/2″	1.09	1.25	1.00	0.40	---
28249	3/4″	1.16	1.39	1.25	0.60	---

FORGED STREET TEE



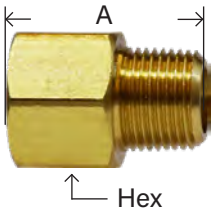
127F

PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28253	1/8″	0.56	0.75	0.50	0.05	---
28254	1/4″	1.03	1.00	0.46	0.13	---
28255	3/8″	1.19	1.09	0.68	0.24	---
28256	1/2″	1.52	1.40	0.88	0.45	---

107 T8 127B

EXTENDER ADAPTER

SAE# 130139



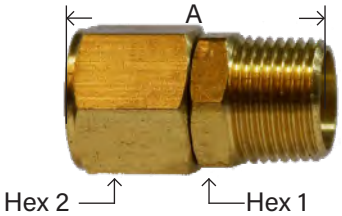
120

PART #	THREAD SIZE NPTF FXM	A	HEX	APPROX. WT. LBS.	LIST PRICE
28190L	1/8″ x 1/8″	0.83	0.50	0.03	---
28190	1/8″ x 1/8″	0.88	0.56	0.04	---
28191L	1/4″ x 1/8″	0.94	0.62	0.04	---
28191	1/4″ x 1/8″	1.06	0.75	0.07	---
28192L	1/4″ x 1/4″	1.00	0.62	0.04	---
28192	1/4″ x 1/4″	1.25	0.75	0.07	---
28198	3/8″ x 1/8″	1.00	0.81	0.06	---
28193L	3/8″ x 1/4″	1.12	0.81	0.08	---
28193	3/8″ x 1/4″	1.25	0.87	0.09	---
28194L	3/8″ x 3/8″	1.24	0.81	0.10	---
28194	3/8″ x 3/8″	1.25	0.87	0.11	---
28197	1/2" x 1/8"	1.09	0.94	0.07	---
28199	1/2″ x 1/4″	1.46	1.06	0.08	---
28195L	1/2″ x 3/8″	1.19	0.93	0.09	---
28195	1/2″ x 3/8″	1.47	1.06	0.18	---
28196L	1/2" x 1/2"	1.25	0.94	0.10	---
28196	1/2″ x 1/2″	1.66	1.06	0.12	---
28207	3/4″ x 3/8″	1.59	1.25	0.26	---
28208	3/4″ x 1/2″	1.69	1.37	0.14	---
28208L	3/4″ x 1/2″	1.22	1.25	0.13	---
28209	3/4″ x 3/4″	1.69	1.37	0.34	---

375 222P 3200 R1 120AH 120B

PIPE SWIVEL ADAPTER

*300 PSI all sizes



PART #	THREAD SIZE NPTF FXM	A	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
28424	1/8"	1.10	0.43	0.50	0.05	---
28425	1/4″	1.34	0.56	0.62	0.06	---
28426	3/8″	1.36	0.68	0.75	0.08	---
28427	1/2"	1.87	0.87	0.95	0.10	---

MALE NPT X FEMALE NPT

- 360° Turning
- Swivels

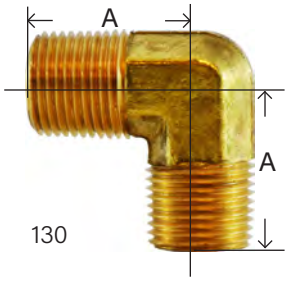
PART #	SIZE	LIST PRICE
320061	1/4	---

344R 3183

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

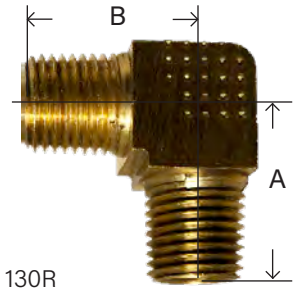
FORGED 90° MALE ELBOW



PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28266	1/8″	0.79	0.38	0.04	---
28267	1/4″	0.87	0.45	0.06	---
28268	3/8″	1.06	0.59	0.12	---
28269	1/2″	1.38	0.78	0.21	---

LE5 3455 116AMF

BARSTOCK 90° MALE ELBOW



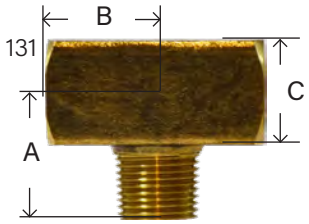
PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28266B	1/8"	0.69	0.56	0.08	---
28267B	1/4"	0.95	0.59	0.09	---
28268B	3/8"	1.01	0.71	0.15	---
28269B	1/2"	1.40	1.00	0.38	---
28270B	3/4"	1.50	1.25	0.55	---
28276B	1/2" x 3/8"	1.12	1.00	0.35	---

FORGED 90° MALE REDUCING ELBOW

PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28274	1/4″x 1/8″	0.88	0.78	0.47	0.06	---
28275	3/8″ x 1/4″	0.90	0.90	0.46	0.06	---
28276	1/2″ x 3/8″	1.12	1.00	0.59	0.12	---

MALE BRANCH TEE

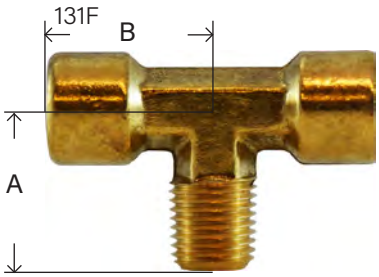
SAE# 130425



PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	LIST PRICE
28281	1/8″	0.66	0.55	0.56	0.08	---
28282	1/4″	0.91	0.78	0.68	0.15	---
28283	3/8″	0.97	0.84	0.81	0.22	---
28284	1/2″	1.25	1.09	1.00	0.40	---
28285	3/4″	1.38	1.16	1.25	0.62	---

T9 X106 23601 3600 2224P 226 329 128

FORGED MALE BRANCH TEE



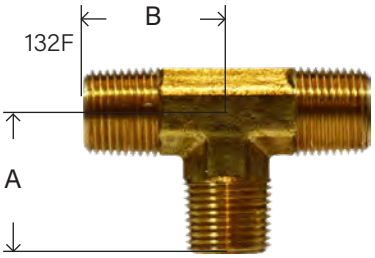
PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28281F	1/8″	0.75	0.56	0.50	0.06	---
28282F	1/4″	1.00	1.03	0.46	0.12	---

T9

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

FORGED ALL MALE TEE

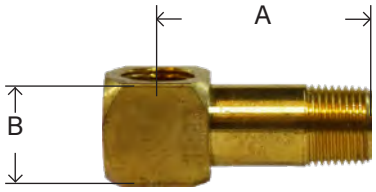


PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28290	1/8″	0.75	0.75	0.43	0.06	---
28291	1/4″	0.86	0.86	0.43	0.08	---
28292	3/8″	1.09	1.09	0.60	0.16	---
28293	1/2″	1.22	1.22	0.68	0.22	---
28294	3/4″	1.43	1.43	0.87	0.38	---

T12 M101

LONG STREET ELLS

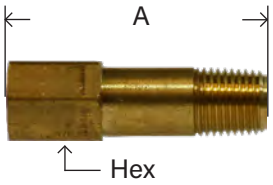
D.O.T. Approved



PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28440	1/8″	1-3/16″	0.50	0.06	---
28441	1/8″	1-7/16″	0.50	0.06	---
28442	1/8″	1-11/16″	0.50	0.06	---
28443	1/8″	1-7/8″	0.50	0.16	---
28328	1/4″	1-3/16″	0.75	0.12	---
28329	1/4″	1-7/16″	0.75	0.14	---
28330	1/4″	1-11/16″	0.75	0.15	---
28331	1/4"	1-7/8"	0.62	0.09	----
28332	1/4″	2-1/4″	0.75	0.17	----
28333	3/8″	1-3/4″	0.87	0.22	---

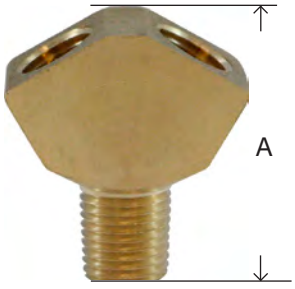
LONG EXTENSION ADAPTERS

D.O.T. Approved

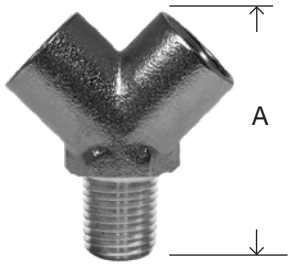


PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28335	1/8″	1-1/4″	0.50	0.04	---
28336	1/8″	1-3/4″	0.50	0.05	---
28337	1/8″	3″	0.50	0.09	---
28338	1/4″	1-9/16″	0.62	0.07	---
28339	1/4″	1-13/16″	0.62	0.08	---
28340	1/4″	2-1/16″	0.62	0.10	---

PIPE WYE FIP X MIP



28-295



28-296

PART #	THREAD SIZE NPT	A	APPROX. WT. LBS.	LIST PRICE
28295	1/4"	1.56	.15	---
28296	1/4 N/P	1.4	.12	---

PIPE WYE FIP X FIP - NICKEL PLATED

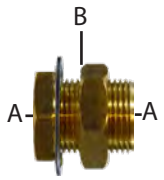
PART #	THREAD SIZE NPT	A	APPROX. WT. LBS.	LIST PRICE
28298	1/4	1.4	.12	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BULKHEAD FITTINGS
BRASS FITTINGS

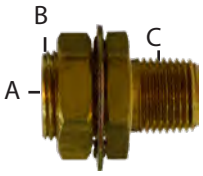
BULKHEAD / ANCHOR / FRAME COUPLINGS

FEMALE PIPE X
FEMALE PIPE



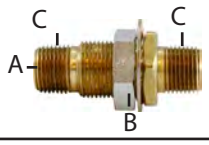
Part #	Terminal Bolts/ Frame A	B	Hole Size	Length (in.)	List Price
28299	1/8-27 NPTF	5/8-18 UNS	5/8	0.96	---
28300	1/8-27 NPTF	5/8-18 UNS	5/8	1-1/2	---
28301	1/4-18 NPTF	3/4-16 UNS	3/4	15/16	---
28302	1/4-18 NPTF	3/4-16 UNS	3/4	1-1/2	---
28315*	1/4-18 NPTF	3/4-16 UNS	3/4	1-1/2	---
28303	3/8-18 NPTF	1-14 UNS	1	1-5/16	---
28304	1/2-14 NPTF	1-1/8-14 UNS	1-1/8	1-1/2	---
28311	3/4-14 NPTF	1-5/16-12	1-5/16	1-1/2	---
28316**	1-11/1/2	1-5/8-14	1-5/8	1.68	---

* Same as 28-302 except with a larger mounting nut. **Without washer



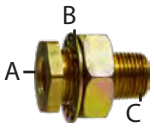
FEMALE PIPE X MALE PIPE

	A	B	C		
28317	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2-1/8	---
28318	3/8-18 NPTF	1-14 UNS	1/2-14 NPTF	1-11/16	---
28319	3/8-18 NPTF	1-14 UNS	1/2-14 NPTF	1-29/32	---



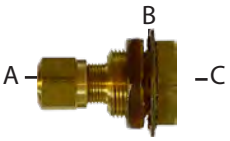
FEMALE PIPE X MALE PIPE

28313	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2-7/8	---



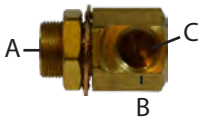
FEMALE PIPE X MALE PIPE

28346	3/8-18 NPTF	1-14 UNS	1/2-14 NPTF	1-7/8	---
28347	1/2-14 NPTF	1-14 UNS	1/2-14 NPTF	2-3/8	---



TUBE X FEMALE PIPE

28321	1/2-O.D. Tube	7/8-20 UNCF	3/8-18 NPTF	1-5/16	---
28322	3/8-O.D. Tube	7/8-20 UNCF	3/8-18 NPTF	1-3/8	---



FEMALE PIPE X CLAMPING STUD ELBOW

28348	3/8-18 NPTF	7/8-20 UNEF	3/8-18 NPTF	2-5/16	---

BRASS MARINE BULKHEAD

46540	5/16 Hose ID	----	----	2.37	---
46541	3/8 Hose ID	----	----	2.37	---

CROSSOVER NUMBERS

28-300	207x2	129A-A	50004	55207								1495B-A	ACBH207-2	207ACBH-2					
28-301	207X4	129AS-B		55611		S611	114-44	1345	382-44S	392C-94			ACBHS207-4						
28-302	207X4	129A-B	50005	55661			114B-44	1344	382-44L		035081		ACBH207-4	207ACBH-4			11306		90648
28-303	207X6	129A-C	50006	55607		S661/ S607	114-66	1346	382-66		035087		ACBH207-6	207ACBH-6			11307	17709	
28-304	207X8	129A-D	50007	55807		S807	114-88	1351					ACBH207-8	207ACBH-8					
28-317				55615		S615	117-84												
28-318				55620		S620			381-86S						11304				
28-319			50001				115-86				035079	1496-DC							
28-313			50010	55600		S664	115-88	1342	380-84	5730	035021				11300	55X6			
28-346			50013	55613		S613													
28-347			50012	55629		S629					035039								
28-321					391-86/1347	S608													
28-322					391-66	S609													
28-348				55616															

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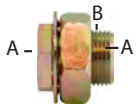
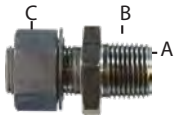
BULKHEAD FITTINGS
BRASS FITTINGS

STEEL BULKHEAD FITTINGS

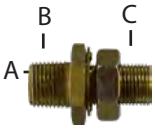


Part #	Terminal Bolts/ Frame A	B	C	Length (in.)	List
28306	1/4-18 NPTF	3/4 - 16 UNS		0.94	---
28307	1/4-18 NPTF	3/4 - 16 UNS		1.50	---
28308	3/8-18 NPTF	1 - 14 UNS		1.31	---

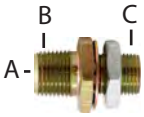


FEMALE PIPE X MALE PIPE

28309	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2.16	---
28310	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2.53	---

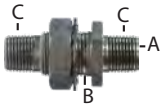


28345	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2-5/32	---



FEMALE PIPE X MALE PIPE

28325	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	1-11/16	---



28312	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2.94	---
28320	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	3-15/16	---

STAINLESS STEEL BULKHEAD FITTINGS

- Temperature range: -20F°- 360F°
- Working pressure: 1450 - 2175PSI

BULKHEAD FITTINGS - STAINLESS STEEL 316L NPT (1/8-1/2")

PART #	SIZE	HOLE SIZE	HEX	LENGTH	LIST PRICE
28300SS	1/8"	0.701	0.866	0.748	---
28301SS	1/4"	0.858	1.063	0.748	---
28303SS	3/8"	1.055	1.260	1.102	---
28304SS	1/2"	1.173	1.417	1.378	---

BULKHEAD FITTINGS - STAINLESS STEEL 316 NPT (3/4-2")

PART #	SIZE	HOLE SIZE	HEX	LENGTH	LIST PRICE
63214	3/4"	1-5/8"	2-15/32"	1-13/16"	---
63215	1"	2-1/4"	3-1/16"	2-7/8"	---
63216	1-1/4"	2-1/4"	3-1/16"	2-3/8"	---
63217	1-1/2"	3"	4-1/4"	2-5/8"	---
63218	2"	3"	4-1/4"	2-5/8"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

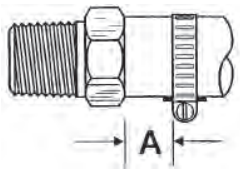
HOSE BARB FITTINGS

▪ **Temperature and Working Pressure Ranges**
From -40^{0}F to + 160^{0}F at 150 PSI maximum.

▪ **Tolerance**
+/- .02 on all dimensions. Dimension Data can change without notice. Please call us when dimensions are critical.

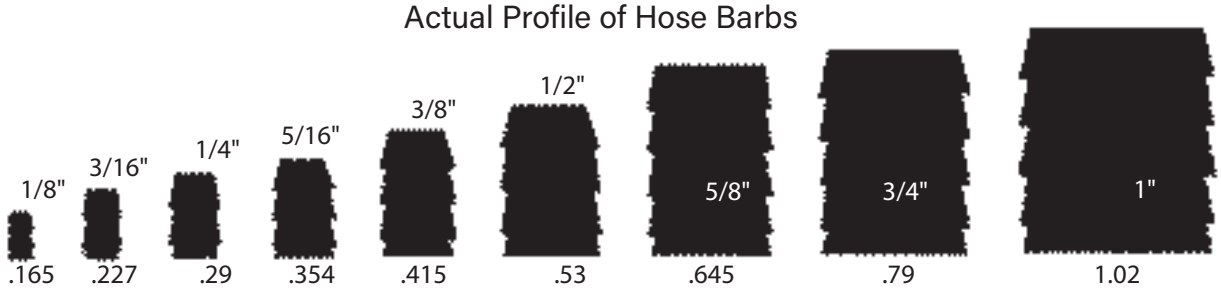
Note: These fittings are intended for use with hose clamp, similar type clamp or a crimped ferrule.

▪ **Assembly Instructions**
1- Cut hose cleanly and squarely to length.
2- Slide clamp on hose.
3- Lubricate hose. Push hose on fitting until hose bottoms against stop ring or hex.
4- Position hose clamp as shown below and secure with a screwdriver or wrench. Maintain "A" dimension noted below for proper clamp positioning.



Hose Size	A
3/16"	1/4"
1/4"	1/4"
5/16"	1/4"
3/8"	1/8"
1/2"	1/8"
5/8"	1/8"
3/4"	1/8"

Actual Profile of Hose Barbs



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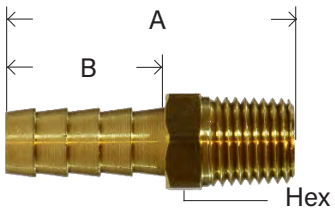
RIGID MALE ADAPTER

- These are not Lead Free



29
129

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32950	1/16" x 10/32"	0.90	0.45	0.38	0.01	---
32951	1/16" x 1/16"	0.91	0.48	0.38	0.01	---
32912	1/8" x 10/32"	0.92	0.48	0.38	0.01	---
32300	1/8" x 1/16"	0.93	0.48	0.38	0.01	---
32001 *	1/8" x 1/8"	1.19	0.69	0.43	0.02	---
32027	1/8" x 1/4"	1.16	0.46	0.56	0.02	---
32952	3/16" x 1/16"	1.20	0.75	0.38	0.02	---
32002 *	3/16" x 1/8"	1.19	0.75	0.43	0.02	---
32003 *	3/16" x 1/4"	1.37	0.69	0.56	0.04	---
32953	3/16" x 3/8"	1.44	0.69	0.68	0.04	---
32301	1/4" x 1/16"	1.44	0.88	0.43	0.02	---
32004 *	1/4" x 1/8"	1.47	0.97	0.43	0.02	---
32005 *	1/4" x 1/4"	1.72	0.97	0.56	0.04	---
32006 *	1/4" x 3/8"	1.72	0.97	0.68	0.05	---
32007	1/4" x 1/2"	1.72	0.81	0.87	0.10	---
32954	1/4" x 3/4"	1.86	0.96	1.06	0.15	---
32008 *	5/16" x 1/8"	1.47	0.97	0.43	0.02	---
32009 *	5/16" x 1/4"	1.72	0.97	0.56	0.04	---
32010 *	5/16" x 3/8"	1.76	0.97	0.68	0.06	---
32011 *	3/8" x 1/8"	1.53	0.97	0.56	0.03	---
32012 *	3/8" x 1/4"	1.75	0.97	0.56	0.05	---
32013 *	3/8" x 3/8"	1.72	0.96	0.68	0.06	---
32014 *	3/8" x 1/2"	1.87	0.97	0.87	0.09	---
32026 *	3/8" x 3/4"	1.97	0.97	1.06	0.16	---
32956	7/16" x 1/4"	1.75	0.97	0.56	0.05	---
32957	7/16" x 3/8"	1.73	0.97	0.70	0.07	---
32958	7/16" x 1/2"	1.87	0.97	0.88	0.10	---
32302	1/2" x 1/8"	1.57	0.95	0.56	0.06	---
32015 *	1/2" x 1/4"	1.72	0.97	0.56	0.04	---
32016 *	1/2" x 3/8"	1.76	0.97	0.68	0.07	---
32017 *	1/2" x 1/2"	1.87	0.96	0.87	0.11	---
32018 *	1/2" x 3/4"	1.94	0.97	1.06	0.16	---
32303	1/2" x 1"	2.31	0.99	1.37	0.33	---
32304	5/8" x 1/4"	1.67	0.92	0.68	0.06	---
32019 *	5/8" x 3/8"	1.76	0.97	0.68	0.08	---
32020 *	5/8" x 1/2"	1.87	0.96	0.87	0.11	---
32021 *	5/8" x 3/4"	1.87	0.96	1.06	0.14	---
32305	5/8" x 1"	2.31	0.96	1.37	0.36	---
32915	3/4" x 1/4"	1.64	0.87	0.81	0.11	---
32306	3/4" x 3/8"	1.65	0.87	0.81	0.12	---
32022 *	3/4" x 1/2"	1.87	0.96	0.87	0.14	---
32023 *	3/4" x 3/4"	1.87	0.96	1.06	0.15	---
32316	3/4" x 1"	2.55	1.15	1.37	0.38	---
32307	1" x 1/2"	1.80	0.87	1.06	0.18	---
32024 *	1" x 3/4"	2.19	1.19	1.06	0.32	---
32025 *	1" x 1"	2.48	1.19	1.37	0.39	---
32029	1-1/4" x 3/4"	2.37	1.19	1.37	0.35	---
32028	1-1/4" x 1"	2.55	1.19	1.37	0.46	---

4244 PGH 101 102 201A 125HBL 105B-1 KF-PS MPB

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

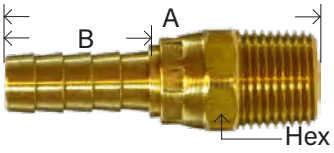
HOSE BARB
BRASS FITTINGS

BRASS RIGID MALE BSPT BARB ADAPTER

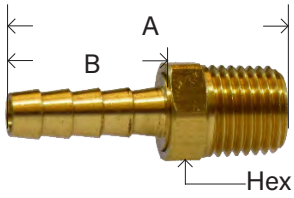
29SWV
29MS

Part #	HOSE I.D. X MALE BSPT	LIST PRICE
32450	1/4" x 1/8"	---
32451	1/4" x 1/4"	---
32452	3/8" x 1/4"	---
32453	3/8" x 3/8"	---
32454	3/8" x 1/2"	---
32455	1/2" x 3/8"	---
32456	1/2" x 1/2"	---
32457	3/4" x 3/4"	---
32458	1" x 1"	---

SWIVEL MALE ADAPTER



Rotation 360°
NBR O-Ring

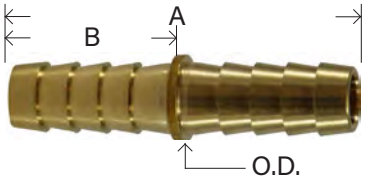


PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32329	3/16" x 1/8"	2.00	0.78	0.56	0.06	---
32331	3/16" x 1/4"	1.95	0.78	0.56	0.06	---
32332	1/4" x 1/8"	2.19	0.97	0.56	0.06	---
32349	1/4" x 1/4"	2.12	0.97	0.56	0.06	---
32351	3/8" x 1/8"	2.12	0.97	0.56	0.07	---
32201	3/8" x 1/4"	2.12	0.97	0.56	0.07	---
32360	3/8" x 3/8"	2.12	0.97	0.69	0.08	---
32355	1/2" x 3/8"	2.12	0.97	0.68	0.10	---
32356	1/2" x 1/2"	2.33	0.97	0.87	0.14	---
32357	3/4" x 3/4"	2.33	0.97	1.06	0.20	---
32386	1" x 1"	2.88	1.19	1.38	0.40	---

SMS 103

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32200	1/4" x 1/4"	1.65	.89	0.56	0.04	---
32202	3/8" x 3/8"	1.75	1.00	0.68	0.08	---

MENDER/ SPLICER



29S
129S

PART #	HOSE I.D. X HOSE I.D.	A	B	O.D.	APPROX. WT. LBS.	LIST PRICE
32091 *	1/8"	0.98	0.45	0.31	0.01	---
32092	3/16"	1.62	0.77	0.36	0.02	---
32093 *	1/4"	2.00	0.96	0.37	0.02	---
32079 *	1/4" x 1/8"	1.50	0.97	0.37	0.02	---
32094 *	5/16"	2.00	0.96	0.39	0.02	---
32090 *	5/16" x 1/4"	2.00	0.97	0.50	0.03	---
32095 *	3/8"	2.00	0.97	0.51	0.04	---
32960	3/8 x 1/8	1.58	1.00	0.50	0.03	---
32961	3/8 x 3/16	1.75	1.00	0.50	0.03	---
32080 **	3/8" x 1/4"	2.06	0.97	0.56	0.03	---
32375 *	3/8" x 5/16"	2.00	0.97	0.50	0.03	---
32096 *	1/2"	2.00	0.96	0.62	0.06	---
32087 *	1/2" x 3/8"	2.06	0.97	0.71	0.06	---
32097	5/8"	2.05	0.96	0.75	0.08	---
32088	5/8" x 3/8"	2.06	0.97	0.75	0.06	---
32376	5/8" x 1/2"	2.06	0.97	0.75	0.07	---
32098 *	3/4"	2.50	1.15	0.87	0.10	---
32089	3/4" x 1/2"	2.28	1.19	0.87	0.10	---
32379	3/4" x 5/8"	2.02	0.96	0.87	0.10	---
32380	1" x 3/4"	2.58	1.19	1.12	0.18	---
32099	1"	3.00	1.44	1.12	0.23	---

MSB 122HBL HM 129 178 73 108

* Add SS to the end of the part number for Stainless.

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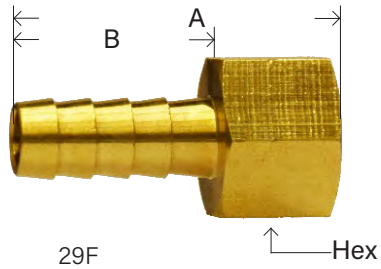
HOSE BARB
BRASS FITTINGS

RIGID FEMALE ADAPTER



29F
129F

PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32050	1/8″ x 1/8″	0.96	0.46	0.50	0.02	---
32317	1/8″ x 1/4″	1.15	0.46	0.62	0.04	---
32051	3/16″ x 1/8″	1.10	0.68	0.50	0.02	---
32062	3/16″ x 1/4″	1.44	0.75	0.62	0.04	---
32052	1/4″ x 1/8″	1.35	0.93	0.50	0.02	---
32053	1/4″ x 1/4″	1.60	0.97	0.62	0.06	---
32054	1/4″ x 3/8″	1.65	1.03	0.75	0.04	---
32441	1/4" x 1/2"	1.66	0.97	0.93	0.08	---
32055	5/16″ x 1/8″	1.47	0.97	0.56	0.04	---
32056	5/16″ x 1/4″	1.66	0.97	0.62	0.04	---
32318	5/16″ x 3/8″	1.66	0.97	0.75	0.06	---
32320	5/16″ x 1/2″	1.67	0.96	0.93	0.08	---
32057	3/8″ x 1/8″	1.47	0.97	0.56	0.04	---
32058	3/8″ x 1/4″	1.61	0.97	0.62	0.06	---
32059	3/8″ x 3/8″	1.63	1.00	0.81	0.08	---
32063	3/8″ x 1/2″	1.72	0.94	0.93	0.12	---
32442	3/8" x 3/4"	1.97	0.97	1.18	0.20	---
32449	1/2" x 1/8"	1.51	0.98	0.56	0.06	---
32064	1/2″ x 1/4″	1.66	0.96	0.62	0.08	---
32060	1/2″ x 3/8″	1.66	0.97	0.75	0.08	---
32061	1/2″ x 1/2″	1.76	0.96	0.93	0.12	---
32443	1/2" x 3/4"	1.97	0.97	1.18	0.26	---
32444	5/8" x 3/8"	1.66	0.97	0.75	0.08	---
32445	5/8" x 1/2"	1.66	0.97	0.93	0.10	---
32446	5/8" x 3/4"	1.97	0.97	1.18	0.21	---
32447	3/4" x 1/2"	1.88	1.19	0.93	0.13	---
32065	3/4″ x 3/4″	2.19	1.21	1.18	0.22	---
32049	1″ x 3/4″	2.19	1.19	1.18	0.26	---
32321	1" x 1"	2.32	1.19	1.44	0.35	---
32448	1-1/4" x 1"	2.32	1.19	1.43	0.44	---

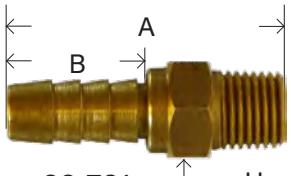
209A 128 29A 29F 126HB 126 FPB 105B-2 KF-RS 104 144

SWIVEL FEMALE ADAPTER NPTF

PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32470	1/4" x 1/4"	1.80	0.97	0.62	0.06	---
32472	3/8" x 1/4"	1.80	0.97	0.62	0.06	---
32473	3/8" x 3/8"	1.82	0.97	0.75	0.09	---
32475	1/2" x 3/8"	1.82	0.97	0.75	0.09	---
32476	1/2" x 1/2"	1.86	0.97	0.93	0.14	---

HIGH VOLUME MALE SWIVEL

▪ 300 PSI ▪ Nitrile Buna (NBR) O-Ring



32-781

28-415 & 28-417

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32781	3/8″ x 1/4″	1.83	0.87	0.62	0.07	---
28415	1/4" x 1/4"	1.30	0.94	0.81	0.14	---
28417	3/8" x 1/4"					

4065

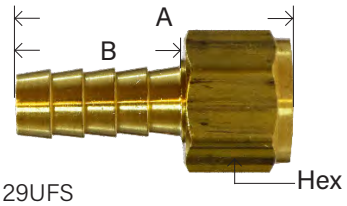
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB
BRASS FITTINGS

SWIVEL FEMALE ADAPTER - WITH GASKET

- NPSM Thread

National Pipe Straight Gasket Seal Swivel



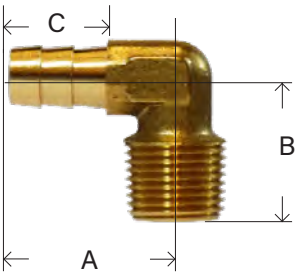
29UFS
129UFS

- Not recommend for water due to fiber gasket - for air service only.

PART #	HOSE I.D. X FEMALE NPSM	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32131	1/8" x 1/8"	0.90	0.46	0.50	0.02	---
32132	3/16" x 1/8"	1.19	0.75	0.50	0.03	---
32133	3/16" x 1/4"	1.28	0.75	0.62	0.04	---
32120	1/4" x 1/8"	1.41	0.97	0.50	0.02	---
32121	1/4" x 1/4"	1.50	0.97	0.62	0.02	---
32129	1/4" x 3/8"	1.63	0.97	0.75	0.04	---
32130	5/16" x 1/4"	1.50	0.97	0.62	0.04	---
32122	3/8" x 1/4"	1.54	1.00	0.62	0.06	---
32123	3/8" x 3/8"	1.60	0.97	0.75	0.06	---
32354	3/8" x 1/2"	1.66	0.97	0.93	0.10	---
32124	1/2" x 3/8"	1.60	0.97	0.75	0.08	---
32125	1/2" x 1/2"	1.66	0.97	0.93	0.12	---
32117	1/2" x 3/4"	1.82	1.19	1.18	0.16	---
32118	5/8" x 3/4"	1.82	1.19	1.18	0.18	---
32119	3/4" x 3/4"	1.82	1.19	1.18	0.14	---

130 126 29FSG KF-RN NPSM Gasket Seat

FORGED HOSE BARB 90° ELBOW



29E
129E

32-330
**Square Barstock Body

PART #	HOSE I.D. X MALE NPTF	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32308	3/16" x 1/8"	0.95	0.70	0.66	0.37	0.02	---
32391	3/16" x 1/4"	1.00	0.84	0.63	0.46	0.10	---
32038 *	1/4" x 1/8"	1.01	0.81	0.71	0.47	0.06	---
32039 *	1/4" x 1/4"	1.01	0.87	0.63	0.47	0.06	---
32309 **	1/4" x 3/8"	1.08	0.97	0.73	0.69	0.12	---
32036	5/16" x 1/8"	1.01	0.81	0.63	0.47	0.04	---
32040	5/16" x 1/4"	1.01	0.87	0.63	0.47	0.06	---
32310	5/16" x 3/8"	1.06	0.94	0.63	0.50	0.06	---
32046 *	3/8" x 1/8"	1.01	0.81	0.63	0.47	0.06	---
32041 *	3/8" x 1/4"	1.02	0.88	0.65	0.47	0.06	---
32042 *	3/8" x 3/8"	1.09	0.93	0.68	0.50	0.08	---
32047 *	3/8" x 1/2"	1.11	1.09	0.63	0.59	0.10	---
32048	1/2" x 1/4"	1.06	1.00	0.68	0.59	0.10	---
32043 *	1/2" x 3/8"	1.06	1.09	0.69	0.59	0.10	---
32311 *	1/2" x 1/2"	1.31	1.19	0.87	0.56	0.12	---
32044	5/8" x 3/8"	1.12	1.06	0.61	0.56	0.12	---
32045	5/8" x 1/2"	1.12	1.12	0.68	0.63	0.14	---
32312	5/8" x 3/4"	1.46	1.26	0.93	1.06	0.32	---
32313	3/4" x 1/2"	1.31	1.28	0.87	0.85	0.22	---
32314 *	3/4" x 3/4"	1.46	1.26	0.91	1.06	0.32	---
32330 **	3/4" x 1"	1.57	1.64	0.90	1.34	0.64	---
32315	1" x 3/4"	1.60	1.40	0.95	1.06	0.32	---
32319	1" x 1"	1.69	1.64	0.98	1.30	0.43	---

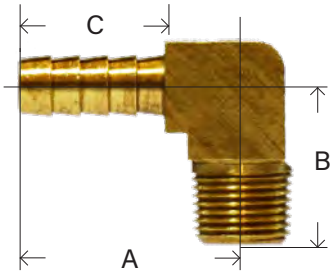
129 HBE1 KF-PS90 HE-1 29E 146

* Add SS to the end of the part number for Stainless.

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BARSTOCK HOSE BARB 90° ELBOW

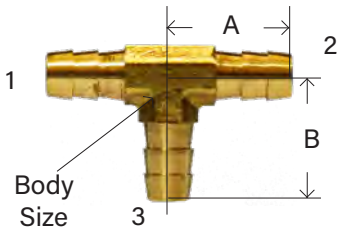


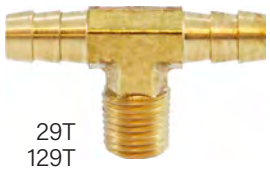
29EBS

PART #	HOSE I.D. X MALE NPTF	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32038B	1/4″ X 1/8″	1.00	0.75	0.75	0.50	0.02	---
32039B	1/4″ X 1/4″	1.02	0.91	0.74	0.56	0.04	---
32309B	1/4" X 3/8"	1.19	0.84	0.76	0.58	0.09	---
32036B	5/16" X 1/8"	1.06	0.66	0.76	0.44	0.04	---
32040B	5/16" X 1/4"	1.12	0.84	0.76	0.58	0.07	---
32310B	5/16" X 3/8"	1.19	0.84	0.76	0.72	0.09	---
32046B	3/8" X 1/8"	1.32	0.94	0.97	0.58	0.06	---
32041B	3/8″ X 1/4″	1.32	0.89	0.97	0.58	0.08	---
32042B	3/8″ X 3/8″	1.50	1.06	0.97	0.75	0.14	---
32047B	3/8" X 1/2"	1.52	1.25	0.97	0.90	0.26	---
32048B	1/2" X 1/4"	1.53	1.06	0.97	0.72	0.12	---
32043B	1/2″ X 3/8″	1.53	1.07	0.97	0.72	0.16	---
32311B	1/2" X 1/2"	1.53	1.25	0.97	0.90	0.26	---
32314B	3/4" X 3/4"	1.33	1.27	0.97	1.10	0.32	---

129HB

HOSE BARB TEES





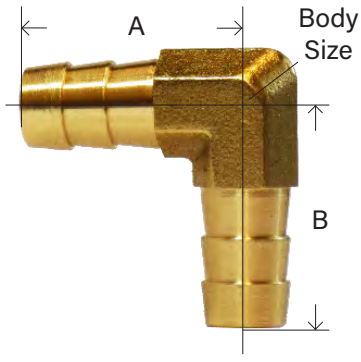
29T
129T

32-128

PART #	HOSE BARB SIZE (1 & 2) X 3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32367 *	1/8″	0.84	0.83	0.25	0.02	---
32368	3/16"	1.02	1.02	0.37	0.03	---
32365 **	1/4″	1.00	1.00	0.44	0.06	---
32350 *	(1/4") x 1/8"	0.94	0.94	0.44	0.04	---
32366	5/16″	1.00	1.00	0.44	0.06	---
32126 **	3/8″	1.01	1.01	0.43	0.06	---
32400 *	1/2″	1.02	1.00	0.43	0.08	---
32352 *	(1/2") x 3/8"	1.26	1.26	0.43	0.10	---
32361	5/8"	1.26	1.26	0.75	0.16	---
32363	3/4"	1.45	1.45	0.90	0.18	---
32353	(3/4") x 1/2"	1.41	1.41	0.88	0.23	---
32128 *	3/8″HB x 1/4″ MIP	1.00	0.94	0.43	0.06	---

* Add SS to the end of the part number for Stainless.

90° HOSE BARB ELBOW



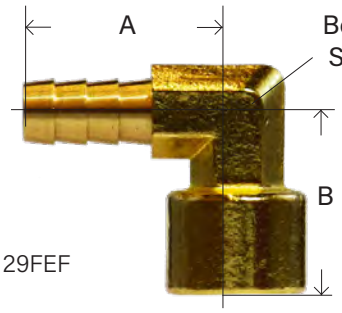
PART #	HOSE I.D. X HOSE I.D.	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32429	1/8" x 1/8"	0.55	0.55	0.37	0.03	---
32433	3/16" x 3/16"	0.90	0.90	0.37	0.03	---
32412	1/4″ x 1/8″	1.02	1.02	0.44	0.04	---
32413 *	1/4″ x 1/4″	1.01	1.01	0.44	0.04	---
32425	5/16" x 5/16"	1.15	1.15	0.48	0.05	---
32414	3/8″ x 1/8″	1.01	1.01	0.44	0.04	---
32415	3/8″ x 1/4″	1.00	1.00	0.44	0.04	---
32416 *	3/8″ x 3/8″	1.02	1.02	0.44	0.04	---
32417	3/8″ x 1/2″	1.24	1.10	0.50	0.06	---
32418	1/2″ x 1/4″	1.24	1.08	0.50	0.06	---
32419	1/2″ x 3/8″	1.22	1.09	0.50	0.06	---
32420 *	1/2″ x 1/2″	1.24	1.24	0.50	0.06	---
32434	5/8" x 5/8"	1.20	1.20	0.75	0.16	---
32435	3/4" x 1/2"	1.41	1.41	0.88	0.21	---
32436	3/4" x 3/4"	1.41	1.41	0.88	0.21	---

* Add SS to the end of the part number for Stainless.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB
BRASS FITTINGS

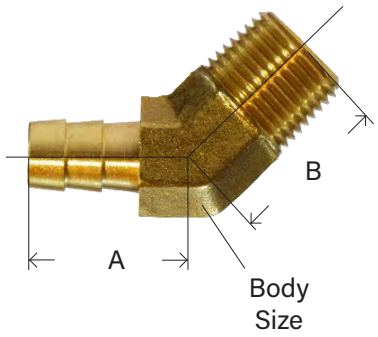
90° FEMALE HOSE BARB ELBOW



29FEF

PART #	HOSE I.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32401	1/4″ x 1/8″	1.01	0.82	0.47	0.06	---
32402	1/4″ x 1/4″	1.13	0.91	0.56	0.10	---
32403	3/8″ x 1/8″	1.01	0.82	0.47	0.06	---
32404	3/8″ x 1/4″	1.15	0.91	0.56	0.10	---
32405	3/8″ x 3/8″	1.15	1.11	0.68	0.14	---
32406	3/8″ x 1/2″	1.26	1.39	0.75	0.20	---
32407	1/2″ x 1/4″	1.26	0.91	0.56	0.10	---
32410	1/2″ x 3/8″	1.24	1.11	0.68	0.14	---
32411	1/2″ x 1/2″	1.37	1.39	0.75	0.20	---
32409	3/4" x 3/4"	1.52	1.75	0.81	0.50	---

45° ELBOW



294S
1294S

PART #	HOSE I.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32110	1/4″ x 1/8″	0.91	0.62	0.53	0.04	---
32109*	1/4″ x 1/4″	1.00	0.62	0.57	0.06	---
32111	3/8″ x 1/8″	0.83	0.66	0.53	0.04	---
32112	3/8″ x 1/4″	0.82	0.84	0.53	0.06	---
32113	3/8″ x 3/8″	0.93	0.87	0.59	0.08	---
32346	1/2″ x 1/4″	1.00	0.84	0.59	0.08	---
32114	1/2″ x 3/8″	1.00	0.88	0.59	0.08	---
32116	1/2" x 1/2"	1.15	0.94	0.59	0.12	---
32115	5/8″ x 3/8″	0.97	0.88	0.59	0.10	---
32345	3/4" x 1/2"	1.15	0.94	0.81	0.13	---

* Barstock

140 HE145 139HB KF-PS45 13945

CROSSES

PART #	HOSE ID	LIST PRICE
32608	1/4	---
32609	5/16	---
32610	3/8	---

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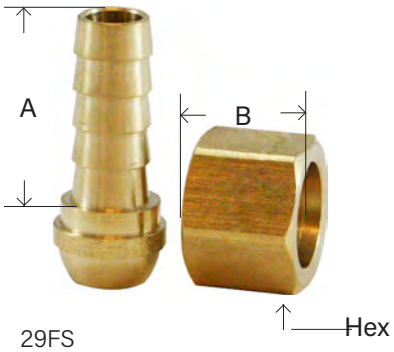
HOSE BARB
BRASS FITTINGS

BALL END SWIVEL
NPSM - Ball seat type

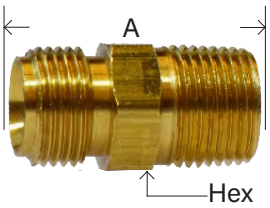


29FS
129FS

PART #	HOSE I.D. X NPSM	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32066	1/8" x 1/8"	0.46	0.44	0.50	0.03	---
32067	3/16" x 1/8"	0.75	0.44	0.50	0.03	---
32068	3/16" x 1/4"	0.75	0.52	0.62	0.04	---
32962	3/16" x 3/8"	0.75	0.63	0.75	0.05	---
32069	1/4" x 1/8"	0.97	0.44	0.50	0.04	---
32070	1/4" x 1/4"	0.97	0.53	0.62	0.06	---
32078	1/4" x 3/8"	0.97	0.63	0.75	0.06	---
32071	5/16" x 1/4"	0.97	0.52	0.62	0.05	---
32389	5/16" x 3/8"	0.97	0.63	0.75	0.07	---
32072	3/8" x 1/4"	0.97	0.53	0.62	0.06	---
32073	3/8" x 3/8"	0.97	0.59	0.75	0.08	---
32074	3/8" x 1/2"	0.97	0.69	0.94	0.14	---
32075	1/2" x 3/8"	0.97	0.59	0.75	0.08	---
32076	1/2" x 1/2"	0.97	0.69	0.94	0.10	---
32077	3/4" x 3/4"	0.97	0.70	1.12	0.14	---

128HBLSV 29FS 209AS 124 131

BALLSEAT MALE ADAPTER
Beveled seat

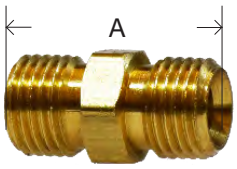


30° Seat

PART #	NPSM X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
32359	1/8" x 1/8"	0.94	0.43	0.03	---
32034	1/4" x 1/8"	1.06	0.56	0.04	---
32030	1/4" x 1/4"	1.25	0.56	0.06	---
32362	3/8" x 1/4"	1.28	0.68	0.08	---
32031	3/8" x 3/8"	1.30	0.68	0.08	---
32392	3/8" x 1/2"	1.47	0.88	0.13	---
32364	1/2" x 3/8"	1.35	0.87	0.10	---
32032	1/2" x 1/2"	1.53	0.87	0.14	---
32033	3/4" x 3/4"	1.53	1.06	0.20	---

172 134 127HB 122AS

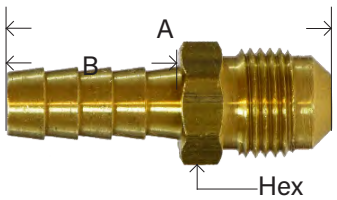
BALLSEAT UNION



30° Seat

PART #	NPSM X NPSM	A	HEX	APPROX. WT. LBS.	LIST PRICE
32460	1/8"	0.79	0.43	0.02	---
32461	1/4"	1.09	0.56	0.04	---
32462	3/8"	1.19	0.68	0.07	---
32463	1/2"	1.31	0.87	0.10	---

45° FLARE ADAPTER



29SAE
129SAE

PART #	HOSE I.D. X 45° FLARE	THREAD	A	B	HEX	APPROX. WT. LBS.	LIST
32322	3/16" x 1/4"	7/16-20	1.5	0.75	0.43	0.03	---
32081 *	1/4" x 1/4"	7/16-20	1.72	0.97	0.43	0.03	---
32082 *	1/4" x 3/8"	5/8-18	1.82	0.97	0.62	0.07	---
32083	5/16" x 5/16"	1/2-20	1.75	0.97	0.50	0.08	---
32084 *	3/8" x 3/8"	5/8-18	1.82	0.97	0.62	0.08	---
32085	3/8" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	---
32086	1/2" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	---

* Add SS to the end of the part number for Stainless.

142 201BF KF-MS KDS

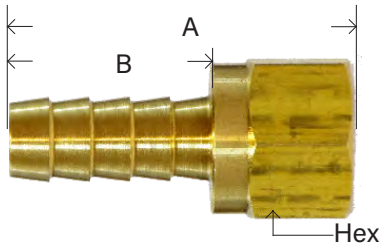
COMPRESSION ADAPTER - BARB X MALE COMPRESSION

PART #	SIZE	LIST PRICE
18534	1/4" x 1/4"	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB
BRASS FITTINGS

DUAL 45°/ 37° FLARE SWIVEL



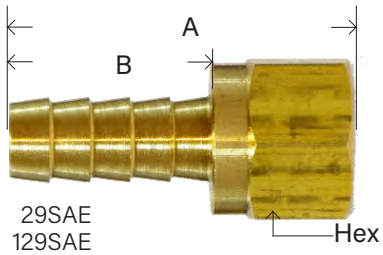
CRIMP STYLE

PART #	HOSE ID X DUAL SEAT	THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32107	3/16″ x 1/4″	7/16-20	1.34	0.75	0.56	0.04	---
32107C**	3/16 X 1/4	7/16-20	1.42	0.78	0.56	0.04	---
32337	1/4″ x 1/4″	7/16-20	1.56	0.97	0.56	0.04	---
32337C**	1/4" X 1/4"	7/16-20	1.60	0.97	0.56	0.04	---
32102	1/4″ x 5/16″	1/2-20	1.61	0.97	0.62	0.06	---
32339	5/16″ x 5/16″	1/2-20	1.60	0.97	0.62	0.06	---
32340	3/8″ x 1/2″	3/4-16	1.68	0.97	0.87	0.10	---
32341	1/2″ x 1/2″	3/4-16	1.68	0.97	0.87	0.10	---
32341C**	1/2" X 1/2"	3/4-16	1.75	0.97	0.87	0.09	---
32342	1/2″ x 5/8″	7/8-14	1.76	0.97	1.00	0.12	---
32394**	5/8" x 5/8"	7/8-14	1.83	0.97	1.00	0.14	---

** Swivel crimp style

KDS

FEMALE 45° FLARE SWIVEL



29SAE
129SAE

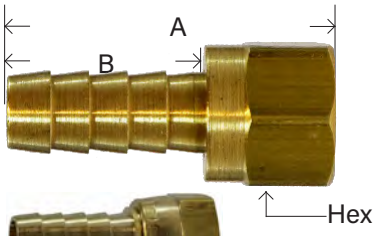
CRIMP STYLE

PART #	HOSE I.D. X FEMALE 45° FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32326	3/16″ x 3/16″	3/8-24	1.19	0.75	0.43	0.04	---
30295**	3/16" x 3/8"	5/8-18	1.82	0.90	0.75	0.04	---
32101	1/4″ x 1/4″	7/16-20	1.57	0.97	0.56	0.04	---
32103	1/4″ x 3/8″	5/8-18	1.64	0.97	0.75	0.08	---
32104	5/16″ x 5/16″	1/2-20	1.61	0.97	0.62	0.05	---
32327	5/16″ x 3/8″	5/8-18	1.67	0.97	0.75	0.08	---
32105	3/8″ x 3/8″	5/8-18	1.64	0.97	0.75	0.08	---
32105C**	3/8" x 3/8"	5/8-18	1.71	0.97	0.75	0.07	---
32106	3/8″ x 1/2″	3/4-16	1.81	0.97	0.87	0.10	---
32100	1/2″ x 1/2″	3/4-16	1.68	0.97	0.87	0.12	---
32328	3/4" x 3/4"	1-1/16-14	2.00	0.97	1.25	0.20	---

29SAE 209ASF 146HBLFSV KF-NS 128 FSS 146 144

** Swivel crimp style (crimped on the outside of fitting)

FEMALE 37° J.I.C. FLARE SWIVEL



CRIMP STYLE

STAINLESS STEEL

32338SS

PART #	HOSE ID X FEMALE 37° FLARE	THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32334	1/4″ x 3/8″	9/16-18	1.60	0.97	0.68	0.06	---
32335	5/16″ x 3/8″	9/16-18	1.60	0.97	0.68	0.06	---
32336	3/8″ x 3/8″	9/16-18	1.60	0.97	0.68	0.10	---
32336C**	3/8" X 3/8"	9/16-18	1.66	0.97	0.68	0.06	---
32338*	3/4" x 3/4"	1-1/16-12	2.00	0.97	1.25	0.20	---
32338SS	3/4" x 3/4"	1-1/16-12	2.00	0.97	1.25	0.24	---
32338C	3/4" x 3/4"	1-1/16-12	2.13	1.19	1.25	0.20	---
32397**	1" x 1"	1-5/16-12	2.31	1.19	1.50	0.33	---

KJS

*Available in swivel crimp style - add a "C" at the end of the part # (100 piece minimum)

** Swivel crimp style

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REUSABLE
BRASS FITTINGS

REUSABLE MALE FITTINGS

29RU17

PART #	HOSE ID	HOSE OD	MALE NPTF	LIST PRICE
32727	1/4"	1/2"	1/4"	---
32728	1/4"	9/16"	1/4"	---
32726	1/4"	5/8"	1/4"	---
32741	5/16"	5/8"	1/4"	---
32742	3/8"	5/8"	1/4"	---
32744	3/8"	11/16"	1/4"	---
32725	3/8"	3/4"	1/4"	---
32747	3/8"	5/8"	3/8"	---
32750	3/8"	11/16"	3/8"	---
32746	1/2"	7/8"	1/2"	---

REUSABLE FEMALE SWIVEL STEMS

PART #	HOSE ID	FEMALE NPSM	LIST PRICE
32770	1/4"	1/4"-18	---
32771	3/8"	3/8"-18	---

REUSABLE FEMALE SWIVELS

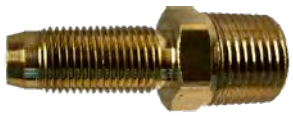
29RU16

PART #	HOSE ID	HOSE OD	FEMALE NPSM	LIST PRICE
32772	1/4"	1/2"	1/4"	---
32773	3/8"	5/8"	3/8"	---
32774	3/8"	11/16"	3/8"	---
32775	1/2"	7/8"	1/2"	---

REUSABLE FERRULES

PART #	HOSE ID	HOSE OD	LIST PRICE
32749	1/4"	1/2"	---
32751	1/4"	9/16"	---
32752	1/4"	5/8"	---
32753	3/8"	5/8"	---
32754	3/8"	11/16"	---
32755	3/8"	3/4"	---
32756	1/2"	7/8"	---

REUSABLE MALE STEMS



PART #	HOSE ID	MALE NPT THREAD	LIST PRICE
32758	1/4"	1/4"	---
32759	3/8"	1/4"	---
32760	3/8"	3/8"	---
32761	1/2"	1/2"	---

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HOSE BARB
BRASS FITTINGS

BRASS FUEL HOSE BARBS

Typical Application: Low pressure air, fuel and oil applications. Generally used for automotive, light truck, and small engine fuel lines. Use with fuel hose SAE 30R7 & SAE 30R9.
Advantages: Easy to assemble, just push the fitting into the hose & clamp. Good selection of configurations at reasonable cost.

MALE CONNECTOR
HOSE BARB X MALE PIPE

159
29SB

PART #	HOSE ID	MIP	IND #	LIST PRICE
38800	3/16	1/8	1541	---
38802	1/4	1/8	1537	---
32377	1/4	1/4	1581	---
38806	5/16	1/8	1551	---
38808	5/16	1/4	1555	---
38810	3/8	1/8	1565	---
32381	3/8	1/4	1564	---
32382	3/8	3/8	1566	---
32383	1/2	3/8		---
32384	1/2	1/2		---
32385	5/8	1/2	1431	---
32387	3/4	1/2	1430	---
32388	3/4	3/4		---

68HB

BUBBLE BARB MALE ADAPTER
BUBBLE X MIP

PART #	BUBBLE X MIP	LIST PRICE
32176	3/8 x 3/8	---
32177	1/2 x 1/4	---
32178	1/2 x 3/8	---
32179	1/2 x 1/2	---
32182	5/8 x 3/8	---
32183	5/8 x 1/2	---
32184	3/4 x 1/2	---
32180	3/4 x 3/4	---
32185	1 x 3/4	---
32181	1 x 1	---

INVERTED FLARE MALE CONNECTOR
HOSE BARB X INVERTED FLARE

159IN
291FSB

PART #	HOSE ID	INV. FLARE	IND #	LIST PRICE
38828	5/16	1/4	1598	---
38830	5/16	5/16	1560	---
38832	5/16	3/8	1561	---
38834	3/8	5/16	1568	---
38836	3/8	3/8	1570	---

269HB

90° MALE ELBOW
HOSE BARB X MALE PIPE

29ESB

PART #	HOSE ID	MIP	IND #	LIST PRICE
38860	1/4	1/8	1582	---
38862	5/16	1/8	1556	---
38864	5/16	1/4	1557	---
38866	3/8	1/8	1572	---
38868	3/8	1/4	1571	---

BUBBLE BARB

159E

PART #	HOSE ID	MIP	LIST PRICE
32186	3/8	3/8	---
32194	1/2	1/4	---
32187	1/2	3/8	---
32191	1/2	1/2	---
32195	5/8	1/4	---
32188	5/8	3/8	---
32189	5/8	1/2	---
32190	3/4	1/2	---
32192	3/4	3/4	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

WELDED HOSE FITTINGS
BRASS FITTINGS

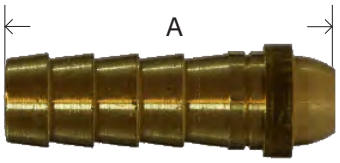
INVERTED FLARE MALE SWIVEL 90° ELBOW
HOSE BARB X TUBE O.D.

159ELS
291MES

Part #	Hose ID	Inv. Flare	Ind #	List Price
38873	5/16	5/16	1405	---
38874	3/8	3/8	1407	---

WELDED HOSE FITTINGS

STEM ONLY - WELDING HOSE CONNECTOR

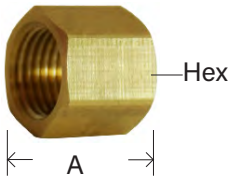


PART #	HOSE I.D.	A	APPROX. WT. LBS.	LIST PRICE
30410	3/16″	1.43	0.02	---
30411	1/4″	1.43	0.02	---
30413	3/8″	1.43	0.04	---

Assemble with nuts below.

201RWA WRS WLS

RIGHT HAND 9/16 - 18 FOR OXYGEN LINE - WELDING HOSE NUT

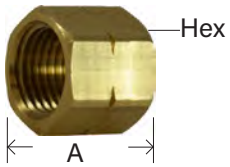


PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30420	R.H. Nut only	0.63	0.68	0.04	---

Assemble with stem above.

201RWA WRS KF-PE 152

LEFT HAND 9/16 - 18 FOR ACETYLENE LINE - WELDING HOSE NUT



PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30421	L.H. Nut only	0.63	0.68	0.04	---

Assemble with stem above.

209LWA WLS 154 KF-RE

RIGHT HAND 9/16 - 18 #122RWA - WELDING HOSE CONNECTOR

651
WH42R

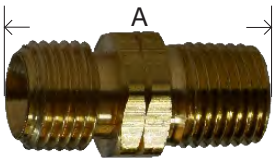
Hex

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30401	1/4″-18	1.30	0.62	0.06	---
32437	3/8"-18	1.30	0.68	0.09	---
32438*	9/16"-18	1.25	0.68	0.07	---

* Right UNF thread

156

LEFT HAND 9/16 - 18 #122LWA - WELDING HOSE CONNECTOR



652
WH42L

Hex

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30406	1/4″-18	1.30	0.62	0.06	---
32439	3/8"-18	1.30	0.68	0.09	---
32440*	9/16"-18	1.25	0.68	0.07	---

* Left UNF thread

158

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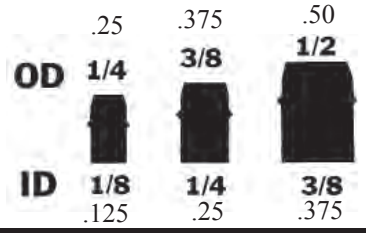
BARBED FOR PLASTIC TUBING

BRASS FITTINGS

BRASS BARBS FOR POLYETHYLENE TUBING

- Quick connecting fittings that do not require tube preparations for hand assembly. Inexpensive with excellent resistance to vibration.



UNION

29MBS

TUBE O.D. (TUBE I.D.) X TUBE O.D. (TUBE I.D.)

PART #	SIZE	LIST PRICE
21003	1/4(1/8) x 1/4(1/8)	---
21007	3/8(1/4) x 1/4(1/8)	---

1062 962

MALE ADAPTER

29MB

TUBE O.D. (TUBE I.D.) X MALE PIPE

PART #	SIZE	LIST PRICE
21021	1/4(1/8) x 1/16	---
21023	1/4(1/8) x 1/8	---
21025	1/4(1/8) x 1/4	---

1068 968 688

FEMALE ADAPTER

29FMB

TUBE O.D. (TUBE I.D.) X FEMALE PIPE

PART #	SIZE	LIST PRICE
21043	1/4(1/8) x 1/8	---
21046	3/8(1/4) x 1/4	---
21049	1/2(3/8) x 3/8	---

1066 966 26 668

BULKHEAD UNION

29MBHS

TUBE O.D. (TUBE I.D.)

PART #	SIZE	LIST PRICE
21082	1/4(1/8)	---
21083	3/8(1/4)	---
21084	1/2(3/8)	---

1074

UNION ELBOW

1065
965

29BEMB

TUBE O.D (I.D.)

PART #	SIZE	LIST PRICE
21095	1/4(1/8)	---
21097	3/8(1/4)	---
21099	1/2(3/8)	---

MALE 90° ELBOW

29MBE

TUBE O.D. (I.D.) X MALE PIPE

PART #	SIZE	LIST PRICE
21109	1/8" x 1/4-28"	---
21111	1/4(1/8) x 1/16	---
21113	1/4(1/8) x 1/8	---
21115	1/4(1/8) x 1/4	---
21117	3/8(1/4) x 1/8	---
21119	3/8(1/4) x 1/4	---

1069 969 229

FEMALE 90° ELBOW

29MBFE

TUBE O.D. (I.D.) X FEMALE PIPE

PART #	SIZE	LIST PRICE
21133	1/4(1/8) x 1/8	---

1070 970 230

UNION TEE

29MBT

O.D. (I.D.) X O.D. (I.D.) X O.D. (I.D.)

PART #	SIZE	LIST
21151	1/4(1/8)	---
21153	3/8(1/4)X 3/8(1/4) X1/4(1/8)	---
21155	3/8(1/4)	---
21159	1/2(3/8)X1/2(3/8) X3/8(1/4)	---
21161	1/2(3/8)	---

1064 964 224

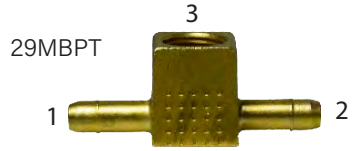
MALE BRANCH TEE

O.D. (I.D.) X O.D. (I.D.) X MALE PIPE

PART #	SIZE	LIST PRICE
21193	1/4(1/8) x 1/4(1/8) x 1/8	---

1072 972 232

FEMALE BRANCH TEE



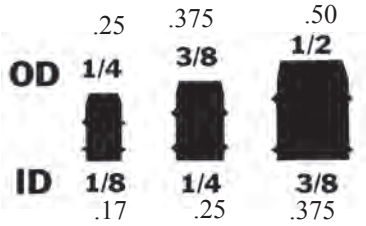
O.D. (I.D.) X O.D. (I.D.) X FEMALE PIPE

PART #	SIZE	LIST
21207	1/4(1/8) x 1/4(1/8) x 1/8	---

1077 978

TWO BARB FITTINGS

More Sizes Available - Please Ask!



MALE ADAPTER PIPE

TUBE O.D. (I.D.) X MALE PIPE

PART #	SIZE	LIST PRICE
32150	1/4(1/8) x 1/8	---
32151	1/4(1/8) x 1/4	---
32153	3/8(1/4) x 1/4	---

28

UNION TEE

PART #	TUBE O.D. (I.D.)	LIST PRICE
32159	1/4(1/8 ID)	---

90° ELBOW

PART #	TUBE O.D. (I.D.)	LIST PRICE
32170	1/4(1/8 ID)	---

225

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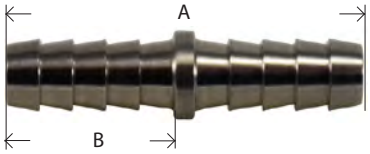
BARSTOCK/ CAST SS HOSE BARB

BRASS FITTINGS

316 STAINLESS STEEL MACHINED RIGID MALE ADAPTER

PART #	HOSE I.D. X NPT	LIST PRICE
32001SS	1/8" x 1/8"	---
32002SS	3/16" x 1/8"	---
32003SS	3/16" x 1/4"	---
32004SS	1/4" x 1/8"	---
32005SS	1/4" x 1/4"	---
32006SS	1/4" x 3/8"	---
32008SS	5/16" x 1/8"	---
32009SS	5/16" x 1/4"	---
32010SS	5/16" x 3/8"	---
32011SS	3/8" x 1/8"	---
32012SS	3/8" x 1/4"	---
32013SS	3/8" x 3/8"	---
32014SS	3/8" x 1/2"	---
32015SS	1/2" x 1/4"	---
32016SS	1/2" x 3/8"	---
32017SS	1/2" x 1/2"	---
32018SS	1/2" x 3/4"	---
32019SS	5/8" x 3/8"	---
32020SS	5/8" x 1/2"	---
32021SS	5/8" x 3/4"	---
32022SS	3/4" x 1/2"	---
32023SS	3/4" x 3/4"	---
32024SS	1" x 3/4"	---

316 STAINLESS STEEL SPLICER



PART #	HOSE I.D. X HOSE I.D.	A	B	LIST PRICE
32091SS	1/8"			---
32093SS	1/4"	2.03	0.97	---
32094SS	5/16"			---
32095SS	3/8"	2.06	0.97	---
32096SS	1/2"	2.06	0.97	---
32098SS	3/4"	2.50	1.19	---

316 STAINLESS STEEL BARB ELBOW

PART #	HOSE I.D. X NPT	LIST PRICE
32038SS	1/4 x 1/8	---
32039SS	1/4 x 1/4	---
32041SS	3/8 x 1/4	---
32042SS	3/8 x 3/8	---
32043SS	1/2" x 3/8"	---
32311SS	1/2 x 1/2	---
32314SS	3/4" x 3/4"	---

304 STAINLESS STEEL HOSE NIPPLES

▪ Cast

PART #	HOSE I.D. X MALE PIPE	LIST PRICE
73951	1/4"	---
73952	3/8"	---
73953	1/2"	---
73954	3/4"	---
73955	1"	---
73956	1-1/4"	---
73957	1-1/2"	---
73958	2"	---
73959	2-1/2"	---
73960	3"	---

304 STAINLESS STEEL REDUCING HOSE NIPPLES

▪ Cast

PART #	HOSE I.D. X MALE PIPE	LIST PRICE
73970	1/4" X 1/8"	---
73971	3/8" X 1/4"	---
73972	1/2" X 3/8"	---
73973	1/2" X 1/4"	---
73974	3/4" X 1/2"	---
73975	1" X 3/4"	---
73976	1" X 1/2"	---
73977	1-1/4" X 1"	---
73979	1-1/2" X 1-1/4"	---
73980	1-1/2" X 1"	---
73981	2" X 1-1/2"	---
73982	2" X 1-1/4"	---

316 STAINLESS STEEL HOSE NIPPLES

▪ Cast

PART #	HOSE I.D. X MALE PIPE	LIST PRICE
973951	1/4"	---
973952	3/8"	---
973953	1/2"	---
973954	3/4"	---
973955	1"	---
973956	1-1/4"	---
973957	1-1/2"	---
973958	2"	---
973959	2-1/2"	---
973990	3"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BEVERAGE FITTINGS
BRASS FITTINGS

BARB TO MALE PIPE ADAPTER

PART #	SIZE	LIST PRICE
34587	1/4" x 1/8"	---
34588	1/4" x 1/4"	---
34589	1/4" x 3/8"	---
34590	3/8" x 1/8"	---
34591	3/8" x 1/4"	---
34592	3/8" x 3/8"	---
34595	3/8" x 1/2"	---

BARB TO MALE FLARE ADAPTER

HOSE ID X 45° FLARE

PART #	SIZE	LIST PRICE
34579	1/4" x 1/4"	---
34586	1/4" x 5/16"	----
34584	1/4" x 3/8"	----
34580	1/4" x 1/2-16"	---
34583	3/8" x 1/4"	---
34585	3/8" x 3/8"	---
34581	3/8" x 1/2-16"	---

FEMALE FLARE SWIVEL SETS

PART #	SIZE	LIST PRICE
34501	1/4" x 1/4"	---
34502	5/16" x 1/4"	---
34504	3/8" x 3/8"	---

ONE PIECE SWIVEL BARB X FE.

PART #	SIZE	LIST PRICE
34510	3/8" x 1/4"	---

HOSE SPLICER (STRAIGHT)

ID HOSE

PART #	SIZE	LIST PRICE
34532	3/16"	---
34533	1/4"	---
34534	1/4" x 3/16"	---
34536	5/16"	---
34537	5/16" x 1/4"	---
34535	3/8"	---
34538	3/8" x 3/16"	---
34543	3/8" x 1/4"	---
34539	3/8" x 5/16"	---

THINWALL SPLICERS

PART #	SIZE	LIST PRICE
34533T	1/4"	---
34535T	3/8"	---
34541T	1/2"	---
34540T	1/2" x 3/8"	---

PLUG

PART #	SIZE	LIST PRICE
34572	1/4"	---

THINWALL

PART #	SIZE	LIST PRICE
34572T	1/4"	---

BARB X COMPRESSION

PART #	SIZE	LIST PRICE
34625	1/4" x 3/8"	---

PLATED BRASS SPLICERS

ID SIZES
VINYL TUBE ID/ PL. TUBE ID

PART #	SIZE	LIST
34725	3/16"/1/4"	---
34726	1/4" x 3/16"/ 5/16" x 1/4"	---
34728	5/16"/3/8"	---
34727	5/16" x 3/16"/ 3/8"/1/4"	---

TAILPIECES

SS BARB X SWIVEL SHANK

PART #	SIZE	LIST PRICE
34711	-/ 3/16"	---
34713	3/16"/ 1/4"	---
34715	1/4"/ 5/16"	---
34716	3/8"/-	---
34717	1/2"/ 3/8"	---

N/P BRASS

PART #	SIZE	LIST PRICE
34710	3/16"/1/4"	---
34712	1/4"/5/16"	---
34714	5/16"/3/8"	---
34716	3/8"/-	---
34718	1/2"/-	---

#304 SS 90° ELBOW

PART #	SIZE	LIST PRICE
34720	3/16"/-	---
34721	1/4"/1/4"	---
34722	5/16"/5/16"	---
34723	3/8"/3/8"	---

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BEVERAGE FITTINGS
BRASS FITTINGS

90° SWIVEL ELBOW

HOSE ID X FEMALE 45°

PART #	SIZE	LIST PRICE
34525	1/4" x 1/4"	---
34526	3/8" x 1/4"	---
34529	3/8" x 3/8"	---
34531	1/2" x 1/2"	---

BARB TO SWIVEL ELBOW

HOSE ID X FEMALE 45° FLARE

PART #	SIZE	LIST PRICE
34600	1/4" x 1/4"	---
34601	3/8" x 1/4"	---

MALE ELBOWS

HOSE ID X MALE NPTF

PART #	SIZE	LIST PRICE
34610	1/4" x 1/8"	---
34611	3/8" x 1/4"	---
34612	3/8" x 3/8"	---
34613	1/2" x 1/2"	---

FEMALE ADAPTERS

BARB X FEMALE PIPE

PART #	SIZE	LIST PRICE
34661	1/4"	---
34658	1/2"	---

U-BEND

PART #	SIZE	A	LIST PRICE
34633	3/8"	2	---

THINWALL U-BEND

Part #	Size	A	List Price
34633T	3/8"	1-1/2	---

U-BEND W/MANIFOLD

THINWALL

PART #	SIZE	LIST PRICE
34621T	1/4"	---
34622T	3/8"	---

CROSS

PART #	SIZE	LIST PRICE
34635T	1/4"	---
34638T	3/8"	---

Y TEES

PART #	SIZE	A	LIST PRICE
34650T	1/4"	1-1/8	---
34652T	3/8"	1-1/4	---

BARB HOSE TEES

ID HOSE

PART #	SIZE	LIST PRICE
34561	1/8"	---
34562	1/4"	---
34565	5/16"	---
34563	3/8"	---

REDUCING TEES

PART #	1&2	3	LIST PRICE
34567	1/4"	3/8"	---
34568	3/8"	1/4"	---

THINWALL TEES

PART #	SIZE	LIST PRICE
34562T	1/4"	---
34565T	5/16"	---
34563T	3/8"	---
34564T	1/2"	---

REDUCING THINWALL TEES

PART #	1&2	3	LIST PRICE
34567T	1/4"	3/8"	---
34568T	3/8"	1/4"	---

90° BARB SPLICER

ID HOSE

PART #	SIZE	LIST PRICE
34551	1/4"	---
34550	5/16"	---
34552	3/8"	---

THINWALL 90° BARB SPLICERS

PART #	SIZE	LIST PRICE
34551T	1/4"	---
34552T	3/8"	---
34553T	1/2"	---

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PUSH ON BARB FITTINGS

Typical Application: Low Pressure Air, Fuel, Lube, and Oil Lines
▪ Pressure determined by tube material and hardness. Our parts have been tested to max 150 PSI.
Advantages: Easy assembly. No clamps needed!!
▪ **Assembly Instructions**
1- Lubricate insert.
2- Hold hose at angle as shown & push on and up over first barb.
3- Continue to push straight on until hose is seated under protective plastic cap. Keep hands back from hose end area so that hose can expand.

▪ **Disassembling Instructions**
1- Split hose. Do not cut completely through hose. Sealing edge of barb could be damaged.
2- Bend hose and remove with a quick pull.

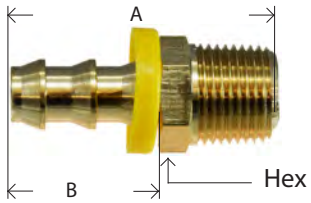
See lead free section for lead free push-on barb fittings. **Stainless steel available at the end of this section.**

Actual Profile of Push On Barbs

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH-ON FITTINGS
BRASS FITTINGS

MALE ADAPTER

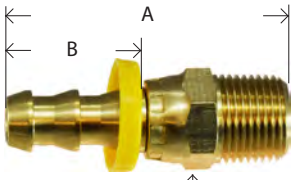


29PO1
129PO1

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30200 *	1/4" x 1/8"	1.43	0.87	0.50	0.04	---
30201 *	1/4" x 1/4"	1.66	0.87	0.56	0.06	---
30211	1/4" x 3/8"	1.66	0.87	0.68	0.06	---
30208	1/4" x 1/2"	1.83	0.88	0.88	0.10	---
30212	5/16" x 1/8"	1.42	0.77	0.43	0.04	---
30213	5/16" x 1/4"	1.66	0.87	0.56	0.06	---
30202	3/8" x 1/8"	1.53	0.97	0.50	0.04	---
30203 *	3/8" x 1/4"	1.69	0.89	0.56	0.07	---
30204 *	3/8" x 3/8"	1.76	0.97	0.68	0.08	---
30205	3/8" x 1/2"	1.97	0.97	0.87	0.10	---
30392	3/8" x 3/4"	1.97	0.92	1.06	0.16	---
30216	1/2" x 1/4"	1.76	0.97	0.68	0.08	---
30206 *	1/2" x 3/8"	1.76	0.97	0.68	0.09	---
30207 *	1/2" x 1/2"	1.97	0.97	0.87	0.14	---
30217	1/2" x 3/4"	1.97	0.97	1.06	0.16	---
30218	1/2" x 1"	2.29	0.97	1.37	0.34	---
30219	5/8" x 3/8"	2.34	1.50	0.75	0.12	---
30209	5/8" x 1/2"	2.45	1.45	0.87	0.16	---
30214	5/8" x 3/4"	2.45	1.45	1.06	0.18	---
30215 *	3/4" x 1/2"	2.45	1.45	0.87	0.21	---
30210 *	3/4" x 3/4"	2.45	1.45	1.06	0.20	---
30238	1" x 3/4"	2.93	1.50	1.25	0.43	---
30239	1" x 1"	3.11	1.50	1.37	0.49	---

301 P990A HLM 100B-1 KA-MB 272 29PO 725 625 BPN 941 30182

MALE SWIVEL

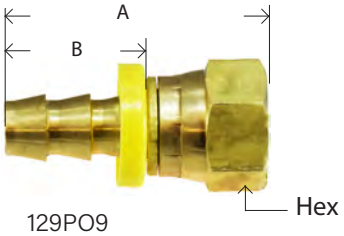


29PO9
129PO2

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30422	1/4" x 1/8"	2.07	0.87	0.56	0.06	---
30385	1/4" x 1/4"	2.02	0.87	0.56	0.06	---
30423	3/8" x 1/8"	2.12	0.97	0.56	0.07	---
30386	3/8" x 1/4"	2.12	0.97	0.56	0.08	---
30387	3/8" x 3/8"	2.12	0.97	0.68	0.08	---
30388	1/2" x 3/8"	2.12	0.97	0.68	0.10	---
30389	1/2" x 1/2"	2.33	0.97	0.87	0.14	---
30424	5/8" x 1/2	2.80	1.45	0.88	0.18	---
30390	3/4" x 3/4"	2.80	1.45	1.06	0.24	---

921 HMS 285 31382

FEMALE GASKET SEAL SWIVEL - NPSM



129PO9

PART #	HOSE I.D. X GASKET SWIVEL (NPSM)	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30359	1/4" x 1/8"	1.39	0.77	0.50	0.03	---
30358	1/4" x 1/4"	1.47	0.82	0.68	0.06	---
30360	3/8" x 1/4"	1.61	1.00	0.68	0.06	---
30361	3/8" x 3/8"	1.77	0.97	0.81	0.08	---
30362	3/8" x 1/2"	1.80	0.92	0.93	0.09	---
30363	1/2" x 1/2"	1.90	1.02	0.93	0.11	---
30366	3/4" x 3/4"	2.36	1.55	1.18	0.32	---

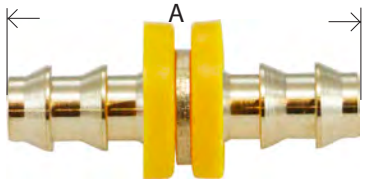
▪ Not recommend for water due to fiber gasket - for air service only.

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB
BRASS FITTINGS

HOSE SPLICER

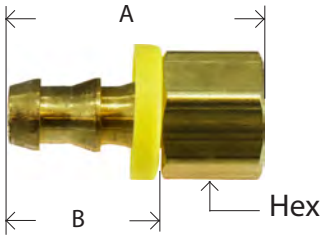


29P08
129PO14

PART #	HOSE I.D.	A	APPROX. WT. LBS.	LIST PRICE
30300	1/4"	1.87	0.04	---
30305	5/16"	1.80	0.04	---
30301	3/8"	2.00	0.06	---
30302	1/2"	2.01	0.08	---
30303	5/8"	3.03	0.14	---
30304	3/4"	3.03	0.14	---
30306	1"	3.21	0.28	---

BPM 696 29SPO 296 915 729 100B-Y KA-RM MHL 296 38282

RIGID FEMALE ADAPTER

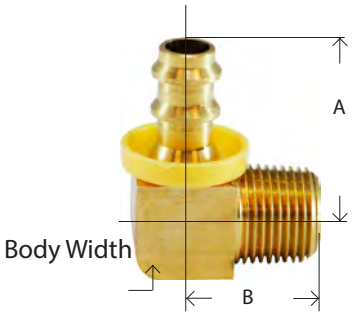


29PO2
129PO7

PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30220	1/4" x 1/8"	1.35	0.87	0.50	0.02	---
30221	1/4" x 1/4"	1.51	0.87	0.62	0.06	---
30384	1/4" x 3/8"	1.51	0.77	0.75	0.06	---
30391	5/16" x 1/8"	1.32	0.77	0.50	0.03	---
30222	5/16" x 1/4"	1.51	0.87	0.62	0.06	---
30393	3/8" x 1/8"	1.47	0.92	0.56	0.06	---
30224	3/8" x 1/4"	1.61	0.97	0.62	0.06	---
30225	3/8" x 3/8"	1.63	0.97	0.75	0.06	---
30394	3/8' x 1/2"	1.66	0.92	0.93	0.12	---
30397	3/8" x 3/4"	1.97	0.97	1.18	0.20	---
30223	1/2" x 1/4"	1.76	1.02	0.68	0.08	---
30226	1/2" x 3/8"	1.63	0.97	0.75	0.08	---
30227	1/2" x 1/2"	1.77	0.97	0.93	0.14	---
30396	1/2" x 3/4"	2.07	1.02	1.18	0.20	---
30398	5/8" x 3/8"	2.24	1.55	0.75	0.10	---
30229	5/8" x 1/2"	2.24	1.48	0.93	0.11	---
30403	5/8" x 3/4"	2.26	1.44	1.19	0.20	
30399	3/4" x 1/2"	2.24	1.50	0.93	0.14	---
30395	3/4" x 3/4"	2.55	1.50	1.18	0.24	---
30400	1" x 3/4"	2.55	1.55	1.18	0.25	---
30402	1" x 1"	2.68	1.55	1.43	0.37	---

30282 29FPO HLF 626 274 726 940

MALE ELBOW



29POE
129PO20

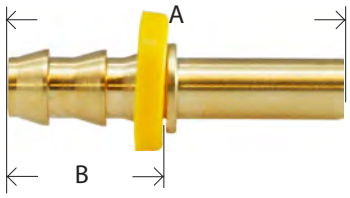
PART #	HOSE I.D. X MALE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
30372	1/4" x 1/8"	0.98	0.75	0.50	0.04	---
30373	1/4" x 1/4"	1.04	0.95	0.56	0.06	---
30374	5/16" x 1/8"	1.02	0.94	0.50	0.06	---
30375	5/16" x 1/4"	1.09	0.94	0.56	0.08	---
30370	3/8" x 1/8"	1.11	0.75	0.50	0.10	---
30371	3/8" x 1/4"	1.13	0.90	0.56	0.10	---
30376	3/8" x 3/8"	1.21	0.92	0.70	0.12	---
30377	3/8" x 1/2"	1.30	1.19	0.87	0.22	---
30382	1/2" x 3/8"	1.32	1.02	0.70	0.13	---
30378	1/2" x 1/2"	1.50	1.19	0.87	0.22	---
30379	5/8" x 1/2"	1.98	1.19	0.87	0.26	---
30383	3/4" x 1/2"	2.15	1.24	0.87	0.25	---
30381	3/4" x 3/4"	2.07	1.28	1.06	0.34	---

100-C 29EPO 273

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB
BRASS FITTINGS

RIGID TUBE ADAPTER

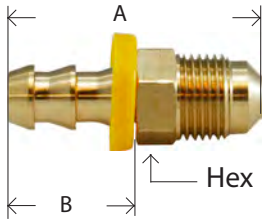


29PO1D
129PO15

PART #	HOSE I.D. X O.D TUBE	A	B	APPROX. WT. LBS.	LIST PRICE
30290	1/4" x 3/16"	1.68	0.77	0.04	---
30291	1/4" x 1/4"	1.88	0.77	0.04	---
30292	1/4" x 5/16"	1.88	0.77	0.04	---
30293	5/16" x 5/16"	1.91	0.79	0.04	---
30294	3/8" x 3/8"	2.03	0.92	0.06	---
30426	3/8" x 1/2	1.81	0.97	0.04	---
30297	1/2" x 1/2"	2.13	1.02	0.06	---
30298	5/8" x 5/8"	2.61	1.50	0.10	---
30299	3/4" x 3/4"	2.61	1.50	0.25	---

294 100B-X KA-RL 303 732 694

MALE SAE FLARE ADAPTER

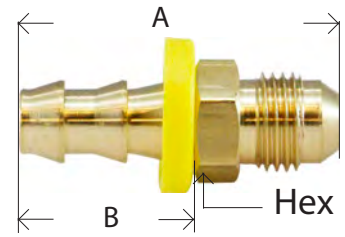


29PO3
129PO4

PART #	HOSE I.D. X 45° MALE FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30240	1/4" x 1/4"	7/16-20	1.45	0.75	0.43	0.04	---
30241	1/4" x 5/16"	1/2-20	1.59	0.84	0.50	0.04	---
30249	5/16" x 5/16"	1/2-20	1.60	0.80	0.50	0.06	---
30271	3/8" x 5/16"	1/2-20	1.64	0.86	0.50	0.08	---
30243	3/8" x 3/8"	5/8-18	1.83	0.92	0.62	0.08	---
30245	1/2" x 1/2"	3/4-16	1.98	1.02	0.875	0.10	---
30246	5/8" x 5/8"	7/8-14	2.73	1.50	0.87	0.19	---
30247	3/4" x 3/4"	1-1/16-14	2.98	1.50	1.06	0.32	---

100B-3 KA-MS 727 945 682 302 282

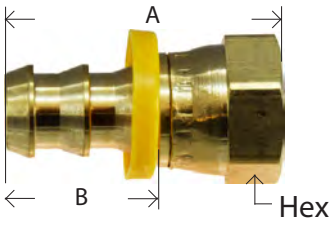
37° MALE JIC FLARE ADAPTER



29PO11
129PO6

PART #	HOSE I.D. X MALE JIC	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32900	1/4" x 1/4"	7/16-20	1.57	0.84	0.50	0.04	---
32901	1/4" x 5/16"	1/2-20	1.60	0.83	0.56	0.04	---
32906	1/4" x 3/8"	9/16-18	1.63	0.77	0.62	0.05	---
32902	3/8" x 3/8"	9/16-18	1.78	0.97	0.62	0.06	---
32903	1/2" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	---
32907	5/8" x 5/8"	7/8-14	2.62	1.50	0.93	0.19	---
32905	3/4" x 3/4"	1-1/16-12	2.79	1.50	1.12	0.29	---

SAE/JIC DUAL 45°/37° FEMALE SWIVEL



29PO5
129PO10

PART #	HOSE I.D. X DUAL SEAT	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30230 *	1/4" x 1/4"	7/16-20	1.53	0.87	0.56	0.06	---
30231	1/4" x 5/16"	1/2-20	1.53	0.87	0.62	0.04	---
30232	5/16" x 5/16"	1/2-20	1.56	0.87	0.62	0.04	---
30427	3/8" x 5/16"	1/2-20	1.74	0.87	0.62	0.06	---
30233	3/8" x 1/2"	3/4-16	1.79	0.97	0.87	0.10	---
30234 *	1/2" x 1/2"	3/4-16	1.77	0.97	0.87	0.10	---
30235	1/2" x 5/8"	7/8-14	1.84	0.97	1.00	0.12	---
30236	5/8" x 1/2"	3/4-16	2.27	1.45	0.87	0.18	---
30237	5/8" x 5/8"	7/8-14	2.33	1.45	1.00	0.14	---
30428	3/4" x 5/8"	7/8-14	2.33	1.45	1.00	0.20	---

29FDS 287 HDF 309 735 690 P990-K 305 935/ 934

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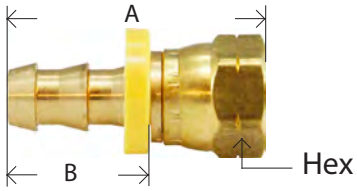
DIMENSION DATA CAN CHANGE WITHOUT NOTICE. PLEASE CHECK WHEN DIMENSIONS ARE CRITICAL.

PUSH ON HOSE BARB
BRASS FITTINGS

45° SAE FLARE FEMALE SWIVEL

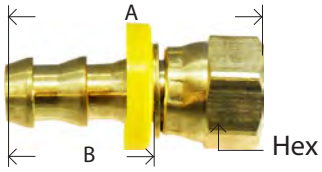


29P06
129PO14

PART #	HOSE I.D. X 45° FEMALE FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30250	1/4" x 1/4"	7/16-20	1.54	0.87	0.56	0.04	---
30251	1/4" x 5/16"	1/2-20	1.57	0.87	0.62	0.04	---
30253	1/4" x 3/8"	5/8-18	1.63	0.87	0.75	0.06	---
30254	5/16" x 5/16"	1/2-20	1.58	0.87	0.68	0.06	---
30260	5/16" x 3/8"	5/8-18	1.63	0.87	0.75	0.08	---
30252	3/8" x 3/8"	5/8-18	1.73	0.97	0.75	0.10	---
30257	3/8" x 1/2"	3/4-16	1.85	0.87	0.87	0.10	---
30261	1/2" x 3/8"	5/8-18	1.92	1.05	0.75	0.10	---
30255	1/2" x 1/2"	3/4-16	1.77	0.97	0.87	0.12	---
30258	5/8" x 5/8"	7/8-14	2.35	1.45	1.00	0.14	---
30259	3/4" x 3/4"	1-1/16-14	2.42	1.45	1.25	0.22	---

30882 728 P990-H 29AEPO 307 284 100S-4 KA-NS HSF 684 934

FEMALE 37° JIC FLARE SWIVEL

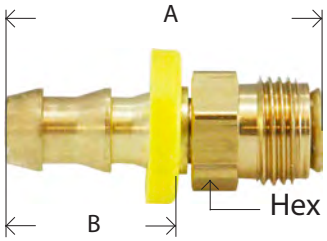


29P07
129PO12

PART #	HOSE I.D. X FEMALE JIC	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30265	1/4" x 1/4"	7/16-20	1.54	0.87	0.56	0.04	---
30264	1/4" x 3/8"	9/16-18	1.57	0.87	0.68	0.06	---
30270	5/16" x 3/8"	9/16-18	1.60	0.82	0.68	0.06	---
30266 *	3/8" x 3/8"	9/16-18	1.70	0.97	0.68	0.08	---
30267	1/2" x 1/2"	3/4-16	1.78	0.97	0.87	0.10	---
30268	5/8" x 5/8"	7/8-14	2.33	1.45	1.00	0.14	---
30269 *	3/4" x 3/4"	1-1/16-12	2.40	1.45	1.25	0.22	---
30429	1" x 1"	1-5/16-12	2.60	1.45	1.50	0.39	---

JF 944/934 29J1CPO HJF 688 738 288 100B-6 308 P990-F 30682 KA-NJ

INVERTED FLARE MALE SWIVEL



29P016
129PO6

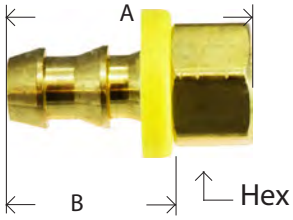
PART #	HOSE I.D. X MALE INV FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30275	1/4" x 3/16"	3/8-24	1.52	0.87	0.37	0.04	---
30276	1/4" x 1/4"	7/16-24	1.56	0.87	0.43	0.04	---
30277	1/4" x 5/16"	1/2-20	1.62	0.87	0.50	0.04	---
30280	5/16" x 5/16"	1/2-20	1.62	0.87	0.50	0.06	---
30283	5/16" x 3/8"	5/8-18	1.63	0.87	0.62	0.06	---
30284	3/8" x 5/16"	1/2-20	1.72	0.97	0.50	0.06	---
30279	3/8" x 3/8"	5/8-18	1.76	0.97	0.62	0.06	---
30282	1/2" x 1/2"	3/4-18	1.84	0.97	0.75	0.10	---
30286	5/8" x 5/8"	7/8-18	2.50	1.57	0.87	0.14	---

290 100B-B KA-MF 1MS 947

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB
BRASS FITTINGS

INVERTED FLARE FEMALE ADAPTER

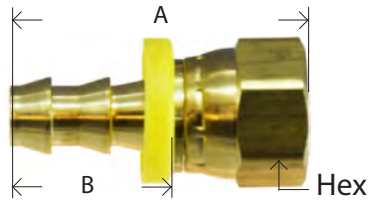


29P013
129PO13

PART #	HOSE I.D. X FEMALE INV FLARE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30310	1/4" x 3/16"	1.12	0.84	0.50	0.02	---
30311	1/4" x 1/4"	1.14	0.84	0.56	0.02	---
30312	1/4" x 5/16"	1.18	0.82	0.62	0.02	---
30316	5/16" x 5/16"	1.25	0.81	0.62	0.04	---
30313	3/8" x 5/16"	1.32	0.87	0.62	0.04	---
30314	3/8" x 3/8"	1.35	0.95	0.75	0.06	---
30315	1/2" x 1/2"	1.73	1.04	0.87	0.12	---

306 100B-A KA-NG 292 P990-J 736 692 946

FEMALE BALLSEAT SWIVEL

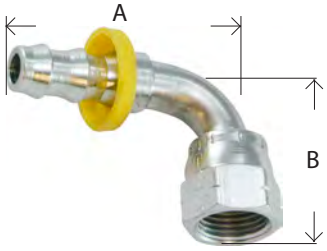


29P04
129PO8

PART #	HOSE I.D. X FEMALE NPSM	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30340	1/4" X 1/8"	1.39	0.85	0.50	0.06	---
30341	1/4" X 1/4"	1.47	0.82	0.68	0.06	---
30342	1/4" x 3/8"	1.40	0.77	0.68	0.09	---
30343	3/8" X 1/4"	1.61	0.97	0.68	0.08	---
30344	3/8" X 3/8"	1.75	0.95	0.81	0.10	---
30430	3/8" x 1/2"	1.79	0.97	0.93	0.11	---
30346	1/2" X 1/2"	1.88	1.09	0.93	0.12	---
30345	1/2" x 3/4"	2.36	1.02	1.18	0.18	---
30349	3/4" X 3/4"	2.36	1.55	1.18	0.22	---

628 278 29SPO 731 NPSM

SAE/ JIC 37°/ 45° FEMALE SWIVEL 90° ZINC PLATED STEEL



PART #	HOSE I.D. X FEMALE 37°/45°	UNF THREAD	A	B	APPROX. WT. LBS.	LIST PRICE
30480	1/4"	7/16-20	1.55	0.83	.064	---
30482	3/8"	9/16-18	1.85	0.91	.095	---
30483*	3/8"	5/8-18	1.98	0.85	.095	---
30484	1/2"	3/4-16	2.33	1.09	.171	---
30486	3/4"	1-1/16-12	3.26	1.81	.281	---

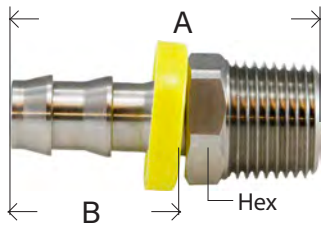
* SAE

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL PUSH ON 316 HOSE BARB

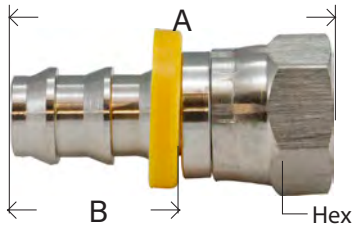
BRASS FITTINGS

316 STAINLESS STEEL MALE ADAPTERS



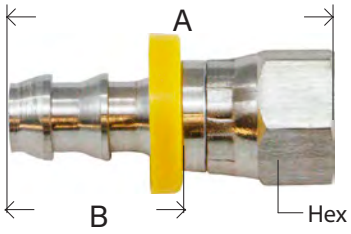
PART #	HOSE I.D. X NPT	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30200SS	1/4" x 1/8"	1.42	0.77	0.44	0.027	---
30201SS	1/4" x 1/4"	1.61	0.77	0.56	0.043	---
30203SS	3/8" x 1/4"	1.76	0.92	0.56	0.053	---
30204SS	3/8" x 3/8"	1.76	0.92	0.69	0.067	---
30206SS	1/2" x 3/8"	1.86	1.02	0.69	0.071	---
30207SS	1/2" x 1/2"	2.07	1.02	0.88	0.119	---
30215SS	3/4" x 1/2"	2.55	1.50	0.88	0.20	---
30210SS	3/4" x 3/4"	2.55	1.50	1.06	0.194	---

316 STAINLESS STEEL SAE/ JIC 45°/ 37° FEMALE SWIVEL



PART #	HOSE I.D. X FEMALE 45°/37°	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30230SS	1/4" x 1/4"	1.48	0.74	0.56	0.023	---
30234SS	1/2" x 1/2"	1.93	1.03	0.88	0.04	---

316 STAINLESS STEEL FEMALE 37° JIC FLARE SWIVEL



PART #	HOSE I.D. X FEMALE 37°	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30266SS	3/8" x 3/8"	1.75	.92	0.68	0.065	---
30269SS	3/4" x 3/4"	2.53	1.50	1.25	0.259	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE FITTINGS

▪ **Temperature and Working Pressure Ranges**

From +35^{0}F to +100^{0}F at 75 PSI maximum or the recommended working pressure of the garden hose. (Not to exceed 150 PSI.)

Note: All female connector ends should have a rubber washer inserted prior to usage.

FGH = Female Garden Hose threads
MGH = Male Garden Hose threads
Male garden hose threads are all 3/4" with an outside diameter of 1.0625 and 11-1/2" threads per inch.

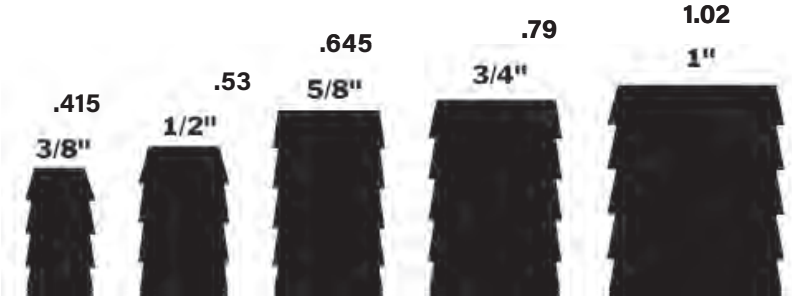
Male Garden Hose Profile

See Plastic section for Plastic Garden Hose Fittings

Lead free Garden Hose

Washers included are #30150B black rubber washers.

Actual Profile of Garden Hose Barbs



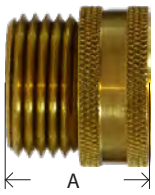
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL PUSH ON 316 HOSE BARB
BRASS FITTINGS

SWIVEL - MGH X FGH

▪WASHER INCLUDED

Internal Hex



PART #	MGH X FGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30000**	3/4" x 3/4"	1.03	0.50*	0.26	---

* Internal Hex
* Not a live swivel
** available in swivel crimp style

SWIVEL - FGH X FGH

▪WASHER INCLUDED

30-011

30-012

PART #	FGH X FGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30011	3/4" x 3/4"	1.03	1.18 O.D.	0.24	---
30012	No Swivel	1.08	1.19	0.24	---

HUS 91 203W GSU 101GHSV 22AS 506 FS66

SWIVEL - FGH X FEMALE PIPE

▪WASHER INCLUDED

PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30001	3/4" x 1/2"	1.20	1.00	0.11	---
30006	3/4" x 3/4"	1.11	1.12	0.11	---

S1 HSU11 91Z 197S 98GHSV 5AS 21517 502 FS65

EVAPORATIVE COOLER FITTINGS

50-016

30-013

30-020

PART #	SIZE	LIST PRICE
50016	MGH x 1/2" FIP	---
30013	1/2 MIP x 1/2 FIP x 1/8	---
30019	3/4 MIP x 3/4 FIP x 1/8	---
30020	MGH x FGH x 1/8	---

RIGID - FGH X FEMALE PIPE

▪WASHER INCLUDED

30-017

PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30016	3/4" x 1/8"	1.02	1.18	0.08	---
30017	3/4" x 1/4"	0.65	1.12	0.07	---
30018	3/4" x 3/8"	1.19	1.18	0.11	---

95GH 501

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE
BRASS FITTINGS

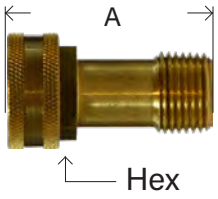
RIGID - FGH X FEMALE PIPE

PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30078	3/4" x 1/2"	1.06	1.18	0.10	---
30083	3/4" x 3/4"	1.06	1.18	0.12	---

FS67 198 HU11 21507 501 99GH 5A H15PP

SWIVEL - FGH X MALE PIPE

·WASHER INCLUDED

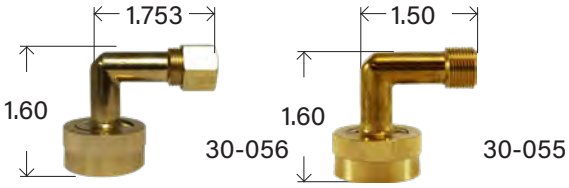


PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30047	3/4" x 1/4"	2.04	0.75	0.13	---
30048	3/4" x 3/8"	2.06	0.75	0.14	---
30049	3/4" x 1/2"	2.06	0.87	0.18	---

504 89GH W1 62H4 88GH W1

3/8" COMP 3/4" FGH DISHWASHER 90° ELBOW

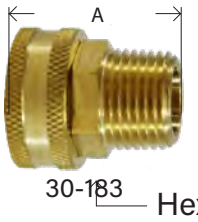
· WASHER INCLUDED



PART #	3/4 FEMALE GARDEN HOSE THREAD X 3/8 COMPRESSION	LIST PRICE
30055	3/4" x 3/8" Body Only	---
30056	3/4" x 3/8" w/ nut & sleeve	---

SWIVEL - FGH X MALE PIPE

· WASHER INCLUDED

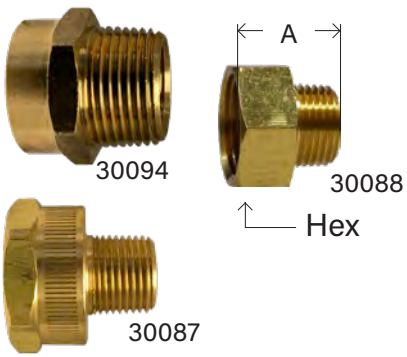


* Crimp style

PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30181*	3/4" x 1/4"	1.43	1.18	0.13	---
30184*	3/4" x 3/8"	1.43	1.18	0.15	---
30183	3/4" x 1/2"	1.32	0.81	0.11	---
30182*	3/4" x 3/4"	1.43	1.18	0.14	---

RIGID - FGH X MALE PIPE

· WASHER INCLUDED



PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30087	3/4" x 3/8"	1.37	1.18	0.11	---
30088	3/4" x 1/2"	1.06	1.18	0.09	---
30088S	3/4" x 1/2"(1/2"SWT)				
30093	3/4" x 3/4"	1.06	1.18	0.11	---
30094	3/4" x 3/4"(1/2" FIP)	1.17	1.18	0.11	---
30093L*	3/4" x 3/4"	1.22	1.18	0.14	---

* Long pattern
** 1/2 Swt = 5/8 O.D.

21505 503 83GH 20A HU21 199 H7

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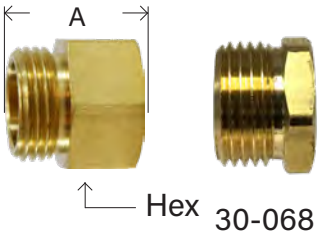
GARDEN HOSE
BRASS FITTINGS

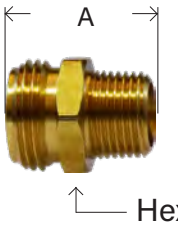
RIGID - MGH X FEMALE PIPE



PART #	MGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30066	3/4" x 1/4"	1.10	1.06	0.09	---
30067	3/4" x 3/8"	1.09	1.06	0.12	---
30068	3/4" x 1/2"	0.81	1.06	0.10	---
30073	3/4" x 3/4"	1.12	1.18	0.10	---
30074	3/4" x 1"	1.36	1.37	0.19	
30075	1" x 1"	1.60	1.38	0.25	

197 18R HU12 H11PP 18A 507 18H 81GH 21503 MF67

RIGID - MGH X MALE PIPE

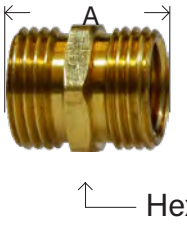


PART #	MGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30054	3/4" x 1/4"	1.26	1.06	0.12	
30053	3/4" x 3/8"	1.25	1.06	0.10	---
30058	3/4" x 1/2"	1.31	1.06	0.12	---
30058S*	34" x 1/2"SWT				
30063**	3/4" x 3/4" x 1/2"	1.31	1.06	0.13	---
30063BE***	3/4" x 3/4"	1.31	1.06	0.15	---
30063S	3/4" x 3/4" Short	1.10	1.06	0.10	---
30064	3/4" x 1"	1.88	1.37	0.35	---
30065	1" x 1"	1.88	1.37	0.26	

No Tap
* (1/2 Swt = 5/8 O.D.)
** (Tapped 1/2 FIP)
*** (Tapped 1/2 FIP Both ends)

19R 196 H530 21501 508 HU22 514 71GH 19A

RIGID - MGH X MGH

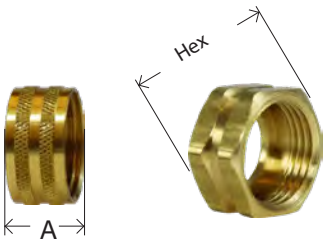


PART #	MGH X MGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30098	3/4" x 3/4" (1/2" FIP)	1.22	1.06	0.13	---
30099	3/4" x 3/4"	1.38	1.06	0.15	---
30100*	1" x 3/4"	1.31	1.37	0.21	---
30101	1" x 1"	1.38	1.37	0.23	

* 1-11-1/2

21500 509 75GH 23A H8 19R

GARDEN HOSE NUT



PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30021	Knurled	0.61	1.37 O.D.	0.08	---
30022	Hex Nut	0.62	1.18	0.08	---

Dimension data can change without notice. Please check when dimensions are critical.

94GH GHN1 HNR 21514

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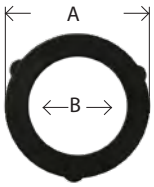
GARDEN HOSE
BRASS FITTINGS

GARDEN HOSE WASHERS



30-150

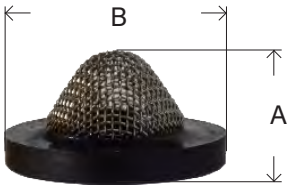
30-150R

PART #	SIZE	A	B	THICK-NESS	APPROX. WT. LBS.	LIST PRICE
30150	black*	0.98	0.68	0.13	0.01	---
30150R	red	1.00	0.68	0.13	0.01	---
30151	1"	1.27	0.86	0.16	0.01	---

GHW 901GH

* plasticized rubber

GARDEN HOSE FILTER WASHER

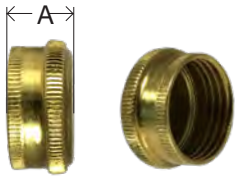


- 300 Series Stainless Steel Screen

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
30180	30 Mesh	0.52	1.00	0.02	---
30180F	60 Mesh	0.52	1.00	0.02	---

LA662

GARDEN HOSE CAP



30-103

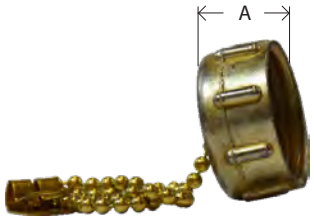
30-103B

PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30103	3/4" Die Cast	0.58	0.04	---

513 96GH GHN5 HC1 LA215 21518 200-W

- Garden hose washers sold seperately

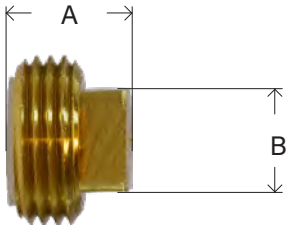
GARDEN HOSE CAP WITH CHAIN



PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30142	3/4" w/ 12" Chain	0.58	0.06	---

* Zinc die cast

GARDEN HOSE PLUG



PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
30026	3/4"	0.69	0.61	0.12	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

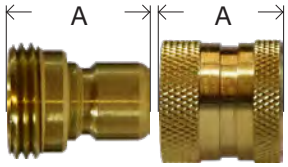
GARDEN HOSE
BRASS FITTINGS

HOSE MENDERS - SOLID BARB X BARB

PART #	HOSE I.D. X HOSE I.D.	A	B	O.D.	APPROX. WT. LBS.	LIST PRICE
32096	1/2"	2.00	0.96	0.62	0.06	---
32097	5/8"	2.05	0.96	0.75	0.08	---
32098	3/4"	2.50	1.15	0.87	0.10	---
32099	1"	3.00	1.44	1.02	0.23	---

QUICK DISCONNECT GARDEN HOSE COUPLERS

•WASHER INCLUDED



30-452 30-451

- Unvalved construction allows maximum Flow
- 150 PSI
- NBR Seals

PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30450	Complete	1.70	0.24	---
30451	Female end	1.14	0.12	---
30452	Male end	1.26	0.12	---
30149	Recessed Washer	1.02	0.01	

LA73C

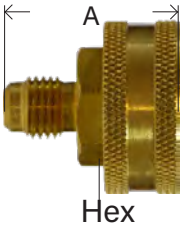
MALE FLARE X FGH RIGID

PART #	MALE FLARE X FGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30123	3/8" x 3/4"	1.31	1.18	0.10	---
30128	1/2" x 3/4"	1.38	1.18	0.12	---
30133	5/8" x 3/4"	1.53	1.18	0.14	---

190 46WH HFU21

MALE FLARE X FGH SWIVEL

•WASHER INCLUDED



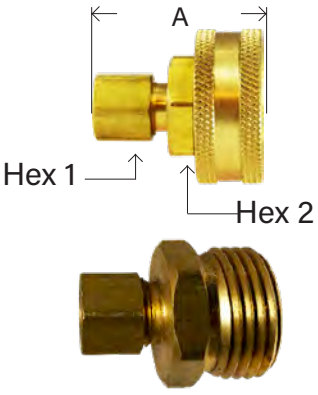
PART #	MALE FLARE X FGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30052	1/4" x 3/4"	1.24	0.75	0.10	---
30138	3/8" x 3/4"	1.25	0.25*	0.12	---
30139	1/2" x 3/4"	1.49	0.81	0.14	---

* Internal Hex

50GHSV 51GHSV W1 68H 191

COMPRESSION X FGH

•WASHER INCLUDED



PART #	SWIVEL COMPRESSION X FGH	A	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
30050	1/4" x 3/4"	1.02	0.50	0.75	0.09	---
30051	3/8" x 3/4"	1.04	0.62	0.75	0.12	---

PART #	NO SWIVEL COMPRESSION X MGH	A	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
30135	1/4" x 3/4"	1.45	0.50	0.625	0.14	---
30136	3/8" x 3/4"	1.525	0.625	0.62	0.15	---
30137	1/2" x 3/4"	1.8	0.815	0.685	0.19	---

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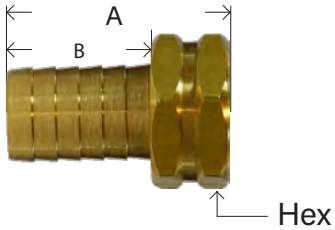
BARSTOCK BRASS GARDEN HOSE COUPLINGS

FEMALE SWIVEL ONLY



29FGH
329F

•WASHER INCLUDED

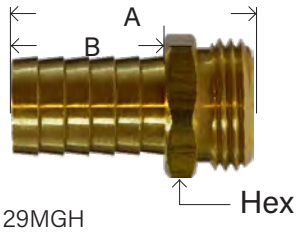
BRASS

PART #	HOSE BARB X FGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30031	3/8″ x 3/4"	1.82	1.19	1.18	0.11	---
30032	1/2″ x 3/4"	1.82	1.19	1.18	0.12	---
30033	5/8″ x 3/4"	1.82	1.19	1.18	0.13	---
30034	3/4″ x 3/4"	1.82	1.19	1.18	0.15	---
30044	1" x 3/4"	2.10	1.19	1.18	0.18	---
30035	1″ x 1"	2.28	1.47	1.50	0.18	---

STAINLESS STEEL 316

30032SS	1/2" x 3/4"	1.82	1.19	1.18	0.12	---
30033SS	5/8" x 3/4"	1.82	1.19	1.18	0.13	---
30034SS	3/4" x 3/4"	1.82	1.19	1.18	0.15	---

MALE END ONLY



29MGH
329M

BRASS

PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30039	3/8″ x 3/4"	1.88	1.19	1.06	0.12	---
30040	1/2″ x 3/4"	1.88	1.19	1.06	0.12	---
30041	5/8″ x 3/4"	1.88	1.19	1.06	0.12	---
30042	3/4″ x 3/4"	1.88	1.19	1.06	0.13	---
30045	1" x 3/4"	1.94	1.19	1.06	0.21	---
30043	1″ x 1"	2.34	1.47	1.37	0.26	---

STAINLESS STEEL 316

30040SS	1/2" x 3/4"	1.88	1.19	1.06	0.12	---
30041SS	5/8" x 3/4"	1.88	1.19	1.06	0.12	---
30042SS	3/4" x 3/4"	1.88	1.19	1.06	0.13	---

GARDEN HOSE COUPLING

•WASHER INCLUDED

BRASS

PART #	HOSE BARB	LIST PRICE
30025	3/8″	---
30027	1/2″	---
30028	5/8″	---
30029	3/4″	---
30046	1"(3/4" threads)	---
30030	1″	---

STAINLESS STEEL 316

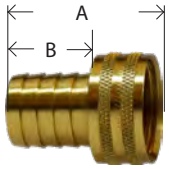
30027SS	1/2"	---
30028SS	5/8"	---
30029SS	3/4"	---

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE
BRASS FITTINGS

FEMALE SWIVEL ONLY - SHORT SHANK KNURLED NUT

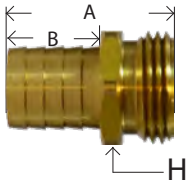


PART #	HOSE BARB X FGH	A	B	APPROX. WT. LBS.	LIST PRICE
30464	1/4" x 3/4"	1.39	0.77	0.09	
30466	1/2" x 3/4"	1.50	0.88	0.08	---
30467	5/8" x 3/4"	1.50	0.88	0.09	---
30468	3/4" x 3/4"	1.47	0.88	0.10	---

FEMALE END ONLY - SHORT SHANK W/ HEX

PART #	HOSE X FGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30453	1/2" x 3/4"	1.63	1.00	1.18	0.11	---
30454	5/8" x 3/4"	1.63	1.00	1.18	0.11	---
30455	3/4" x 3/4"	1.63	1.00	1.18	0.13	---

MALE END ONLY - SHORT SHANK



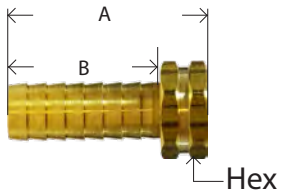
PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30469	1/4" x 3/4"	1.55	0.88	1.06	0.11	
30471	1/2" x 3/4"	1.55	0.88	1.06	0.11	---
30472	5/8" x 3/4"	1.56	0.88	1.06	0.12	---

GARDEN HOSE COUPLING SETS - SHORT SHANK W/ HEX NUT

PART #	HOSE BARB	LIST PRICE
30457	1/2"	---
30458	5/8"	---
30459	3/4"	---

FEMALE SWIVEL ONLY - 2" SHANK

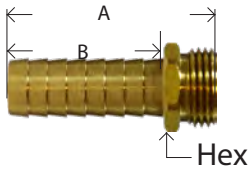
•WASHER INCLUDED



PART #	HOSE BARB X FGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30505	1/2" x 3/4"	2.55	2.04	1.18	0.13	---
30506	5/8" x 3/4"	2.56	2.04	1.18	0.16	---
30507	3/4" x 3/4"	2.67	2.04	1.18	0.17	---
30508	1" x 1"	2.84	2.03	1.43	0.29	---

GHFL 594

MALE END ONLY - 2" SHANK



PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30510	1/2" x 3/4"	2.72	2.04	1.06	0.16	---
30511	5/8" x 3/4"	2.72	2.04	1.06	0.17	---
30512	3/4" x 3/4"	2.72	2.04	1.06	0.20	---
30513	1" x 1"	2.90	2.03	1.37	0.28	---

GHML 593

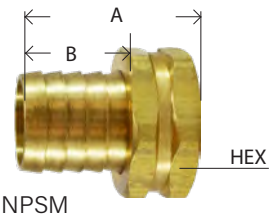
GARDEN HOSE COUPLING SETS - 2" SHANK

PART #	HOSE X FGH	LIST PRICE
30516	1/2"	---
30517	5/8"	---
30518	3/4"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NPSM GARDEN HOSE
BRASS FITTINGS

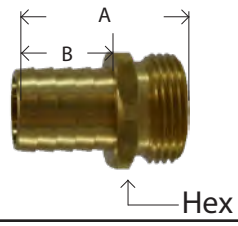
NPSM FEMALE SHORT SHANK



329NPSM

PART #	HOSE ID	NPSM THREAD	A	B	HEX	LIST PRICE
30545	1/2	3/4"	1.45	0.88	1.18	---
30546	5/8	3/4"	1.47	0.88	1.18	---
30547	3/4	3/4"	1.47	0.88	1.18	---
30548	1	1"	1.50	1.00	1.50	---

NPSM MALE SHORT SHANK

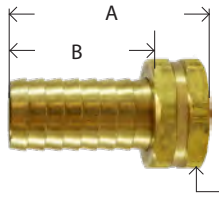


PART #	HOSE ID	NPSM THREAD	A	B	HEX	LIST PRICE
30550	1/2	3/4"	1.56	0.88	1.06	---
30551	5/8	3/4"	1.56	0.88	1.06	---
30552	3/4	3/4"	1.56	0.88	1.06	---
30553	1	1"	1.77	0.98	1.30	---

NPSM SHORT SHANK SETS

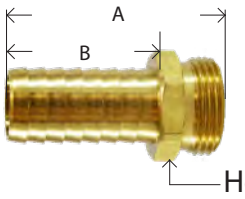
PART #	SIZE	LIST PRICE
30540	1/2"	---
30541	5/8"	---
30542	3/4"	---
30543	1"	---

NPSM FEMALE LONG SHANK



PART #	HOSE ID	NPSM THREAD	A	B	HEX	LIST PRICE
30565	1/2	1/2"	2.09	1.50	0.94	---
30566	5/8	3/4"	2.09	1.50	1.18	---
30567	3/4	3/4"	2.09	1.50	1.18	---
30568	1	1"	2.12	1.53	1.50	---

NPSM MALE LONG SHANK



PART #	HOSE ID	NPSM THREAD	A	B	HEX	LIST PRICE
30570	1/2	1/2"	2.18	1.50	0.87	---
30571	5/8	3/4"	2.18	1.50	1.06	---
30572	3/4	3/4"	2.18	1.50	1.06	---
30573	1	1"	2.32	1.53	1.30	---

NPSM LONG SHANK SETS

PART #	SIZE	LIST PRICE
30560	1/2"	---
30561	5/8"	---
30562	3/4"	---
30563	1"	---

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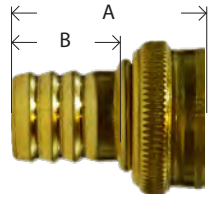
GARDEN HOSE VALVES/ FITTINGS

BRASS FITTINGS

WROUGHT BRASS

WROUGHT BRASS - FEMALE END ONLY

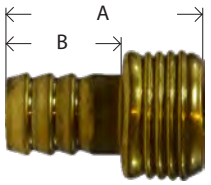
·WASHER INCLUDED



PART #	HOSE BARB X FGH	A	B	APPROX. WT. LBS.	LIST PRICE
30526	5/8" x 3/4"	1.58	0.91	0.05	----
30527	3/4" x 3/4"	1.50	0.84	0.06	----

85L

WROUGHT BRASS COUPLINGS - MALE END ONLY



PART #	HOSE BARB X MGH	A	B	APPROX. WT. LBS.	LIST PRICE
30530	1/2" x 3/4"	1.50	0.88	0.02	----

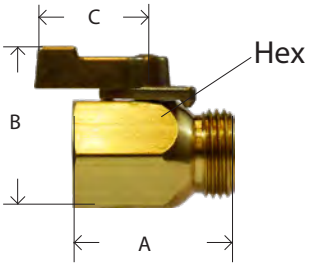
85M

GARDEN HOSE VALVES

ONE WAY BRASS BALL VALVE - FGH X MGH

▪ 500 PSI ▪ 180°F

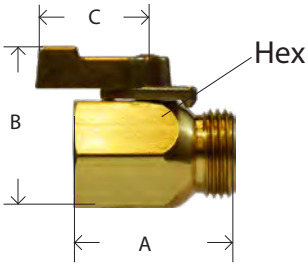
▪ WASHER INCLUDED



PART #	FGH X MGH	A	B	C	HEX	APPROX. WT. LBS.	LIST PRICE
30161	3/4" x 3/4"	1.87	1.89	1.31	1.06	0.42	---

ONE WAY BRASS BALL VALVE - FEMALE PIPE X MGH

▪ 500 PSI ▪ 180°F



PART #	FEMALE NPTF X MGH	A	B	C	HEX	APPROX. WT. LBS.	LIST PRICE
30162	3/4" x 3/4"	1.55	1.89	1.31	1.06	0.42	---

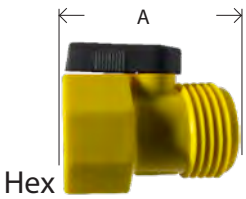
ZINC ALLOY HOSE SHUT-OFF W/ ONE LEVER

▪ WASHER INCLUDED

PART #	FGH X MGH	A	APPROX. WT. LBS.	LIST PRICE
30631	3/4" x 3/4"	1.67	0.08	---

PLASTIC GARDEN HOSE VALVE ▪ CYCOLAC BODY & BALL

▪ WASHER INCLUDED



PART #	FGH X MGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30163	3/4" x 3/4"	1.75	1.25	0.04	---

LA45OC

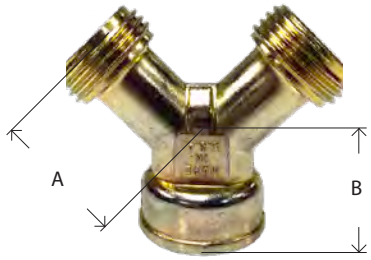
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE VALVES

BRASS FITTINGS

ZINC ALLOY HOSE - "Y" CONNECTOR

▪ WASHER INCLUDED



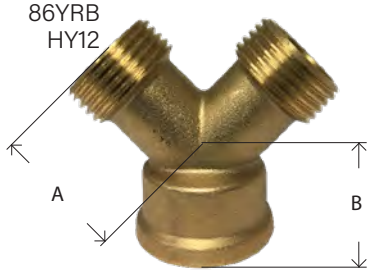
PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	LIST PRICE
30141	3/4"	1.70	0.57	1.5	

86Y 21A

CAST BRASS HOSE - "Y" CONNECTOR

▪ WASHER INCLUDED

86YRB
HY12

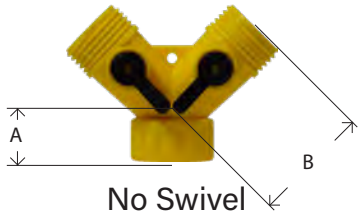


PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	LIST PRICE
30140	3/4"	1.40	0.67	0.22	---

86Y 21A

PLASTIC, NON-CORROSIVE, 2-WAY HOSE SHUT-OFF "Y"

▪ WASHER INCLUDED

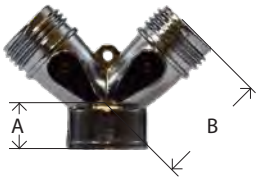


No Swivel

PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	LIST PRICE
30160	3/4"	0.74	1.87	0.08	---

"Y" SHAPE ZINC ALLOY CONNECTOR W/ TWO LEVERS

▪ WASHER INCLUDED



No Swivel

PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	LIST PRICE
30626	3/4"	0.60	1.66	0.10	---

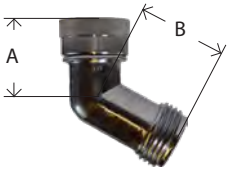
"Y" SHAPE BRASS CONNECTOR W/ 2-WAY SHUT OFF

▪ WASHER INCLUDED

▪ Brass Levers

PART #	SIZE	DESCRIPTION FGH SWIVEL X MGH(2)	APPROX. WT. LBS.	LIST PRICE
30627	3/4"	3/4 Double Y valve, swivel inlet	0.56	---

ZINC ALLOY SWIVEL HOSE CONNECTOR



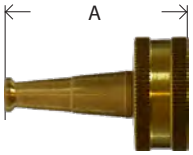
PART #	SIZE FGH X MGH	A	B	APPROX. WT. LBS.	LIST PRICE
30629	3/4"	1.31	1.50	0.08	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE NOZZLES
BRASS FITTINGS

2-1/2" BRASS NOZZLE

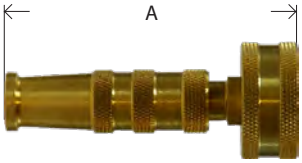
· WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30637	3/4"	2.50	0.14	---

3" CROSSED PATTERN BRASS NOZZLE

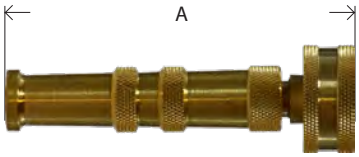
· WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30640	3/4"	2.89	0.25	---

4" CROSSED PATTERN BRASS NOZZLE

· WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30638	3/4"	3.80	0.50	---

· WASHER INCLUDED

Adjustable Spray

Part #	Size		List Price
30600	5-1/2"	Zinc Alloy spray nozzle with insulated handle soft grip and front thread protector	---

· WASHER INCLUDED

Lead Free

Part #	Size		List Price
30620	4-1/4"	Zinc Alloy spray nozzle	---

· WASHER INCLUDED

Lead Free
Adjustable Spray

Part #	Size		List Price
30609	5-1/4"	Zinc Alloy spray nozzle with easily adjustable brass head and plastic grip	---

· WASHER INCLUDED

Part #	Size		List Price
30630	4-1/2"	Plastic spray nozzle	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4
Thread Size-B	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	1-1/16-14

▪Typical Application
LP and natural gas, flammable liquids, instrumentation, refrigeration, power steering, hydraulic and pneumatic systems.

▪Working Pressure Ranges
Temperature and type of tubing used are important factors. However, the following table is a good guide for proper selection. Temperature 73^{0}F with copper tubing:

PSI	Tube O.D. (in.)	Tube Wall (in.)
2800	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035
450	7/8	.035

▪Vibration
Good resistance - use long nut when greater vibration resistance is required.

▪Temperature Range
-65^{0}F to +250^{0}F (-53^{0}C to +121^{0}C) range at maximum operating pressures.

▪Used With
Copper, brass, aluminum and steel hydraulic tubing that can be flared.

▪ Tolerance
+/- .03 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

▪Conformance
Meets specifications and standards of ASA, ASME, SAE and MS (Military standards).

Assembly Instructions
1- Cut tubing to desired length. Make sure all burrs are removed and ends are cut square.
2- Slide nut on tube. Threaded end "A" of nut must face out.
3- Flare end of tube with a 45^0 flaring tool.
a-Measure flare diameter.
b- Examine flare for excessive thin out.
4- Lubricate threads and assemble to fitting body. Nut should be turned hand tight.
5- Tighten assembly with wrench until a solid feeling is encountered. From that point, apply a one-sixth turn.
Note: Do not over-torque as it may damage the fitting or split the tubing at the flare.

▪ See Lead Free Flare Fittings

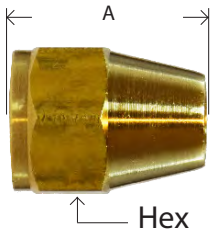
Actual O.D. of Flare Fittings

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE
BRASS FITTINGS

SHORT ROD NUT

SAE# 010110

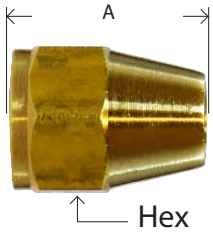


41S
411S

PART #	THREAD SIZE UNF	THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
10013	1/8″	5/16-24	0.50	0.37	0.01	---
10014	3/16″	3/8-24	0.62	0.43	0.02	---
10015	1/4″	7/16-20	0.75	0.56	0.03	---
10015L	1/4"	7/16-20	0.75	0.50	0.03	---
10016	5/16″	1/2-20	0.88	0.62	0.04	---
10017L	3/8″	5/8-18	0.77	0.75	0.05	---
10017	3/8″	5/8-18	1.00	0.75	0.04	---
10018	7/16″	11/16-16	1.06	0.81	0.06	---
10019L	1/2″	3/4-16	0.93	0.87	0.06	---
10019	1/2″	3/4-16	1.12	0.87	0.09	---
10020L	5/8″	7/8-14	1.08	1.00	0.10	---
10020	5/8″	7/8-14	1.31	1.06	0.15	---
10021	3/4″	1-1/16-14	1.50	1.25	0.24	---
10022	7/8″	1-1/4-12	1.62	1.50	0.36	---
10026	1″	1-3/8-12	1.81	1.62	0.44	---

20910 41FS 1110 N1 41FX 441S 'L'

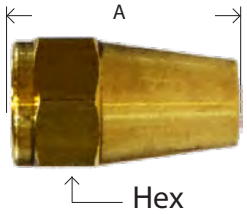
REDUCING SHORT ROD NUT



PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10023	3/8″ x 1/4″	0.74	0.81	0.06	---
10024	1/2″ x 3/8″	0.86	0.94	0.10	---
10025	5/8″ x 1/2″	0.99	1.06	0.12	---

LONG ROD NUT

SAE# 010111



41L

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10001	1/8″	0.75	0.37	0.01	---
10002	3/16″	0.81	0.43	0.02	---
10003L	1/4"	0.98	0.55	0.03	---
10003	1/4″	0.94	0.56	0.03	---
10004	5/16″	1.12	0.62	0.04	---
10005	3/8″	1.31	0.75	0.06	---
10006	1/2″	1.62	0.87	0.12	---
10007	5/8″	1.88	1.06	0.20	---
10008	3/4″	2.19	1.25	0.34	---

41FL N2 241 441 41

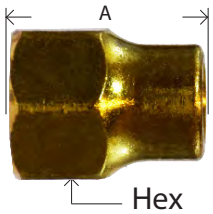
"L" means light pattern.

-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LONG FORGED NUT

SAE# 010167



640L
641L

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10028	1/4″	0.94	0.62	0.05	---
10030	3/8″	1.06	0.81	0.08	---
10031	1/2″	1.19	0.94	0.12	---
10032	5/8″	1.44	1.06	0.26	---
10033	3/4″	1.75	1.31	0.35	---

41FF 39 N4 14FL 641

SHORT FORGED NUT

SAE# 010166

641S
6401S

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10038	3/16″	0.56	0.50	0.02	---
10039	1/4″	0.60	0.62	0.04	---
10040	5/16″	0.66	0.69	0.04	---
10041	3/8″	0.70	0.81	0.06	---
10042	1/2″	0.82	0.94	0.08	---
10043	5/8″	0.95	1.06	0.12	---
10044	3/4″	1.16	1.31	0.22	---
10045	7/8″	1.18	1.38	0.30	---

14FS 41FFS 40 641-S 1116 NS4

EXTRA HEAVY SHORT FORGED NUT

641SH
6401SXH

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10046	1/4″	0.63	0.75	0.04	---
10047	3/8″	0.72	0.88	0.06	---
10048	1/2″	0.88	1.00	0.08	---
10049	5/8″	0.98	1.12	0.12	---

NSA

FORGED REDUCING NUT

660
662S

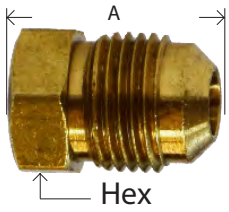
PART #	FEMALE FLARE X OD	A	HEX	APPROX. WT. LBS.	LIST PRICE
10051	5/16″ x 1/4″	0.66	0.75	0.06	---
10052	3/8″ x 1/4″	0.72	0.81	0.06	---
10053	3/8″ x 5/16″	0.72	0.81	0.08	---
10054	1/2″ x 3/8″	0.81	0.94	0.08	---
10055	5/8″ x 3/8″	0.96	1.12	0.15	---
10056	5/8″ x 1/2″	0.97	1.06	0.12	---
10058	3/4″ x 5/8″	1.17	1.31	0.30	---

NSR4 14FS 41FRS 40R 662-S

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE
BRASS FITTINGS

FLARED PLUG



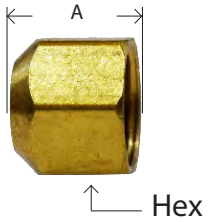
39
439

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10062	1/8"	0.53	0.34	0.01	
10063	3/16"	0.59	0.50	0.02	---
10064 *	1/4"	0.69	0.43	0.02	---
10065 *	5/16"	0.78	0.50	0.04	---
10066 *	3/8"	0.88	0.62	0.06	---
10067	1/2"	1.06	0.75	0.10	---
10068	5/8"	1.19	0.87	0.14	---
10069	3/4"	1.32	1.06	0.22	---

* Available in Stainless Steel. Add SS to the part#

58 639F PF 57 P2 2229 439

FLARED CAP



40
440

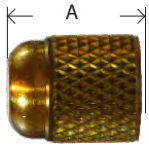
PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10073	1/8"	0.46	0.37	0.02	
10074	3/16"	0.47	0.50	0.02	---
10075 *	1/4"	0.48	0.50	0.02	---
10075EH	1/4"	0.54	0.57	0.02	
10076	5/16"	0.62	0.62	0.04	---
10077 *	3/8"	0.58	0.75	0.03	---
10078	1/2"	0.69	0.81	0.14	---
10079	5/8"	0.81	0.94	0.20	---
10080	3/4"	1.17	1.37	0.30	---

* Available in Stainless Steel. Add SS to the part#

640F 41FC 56 N5 2129 54 440

FINGER TIGHTENING CAP

- Neoprene
- **O-Ring Included**



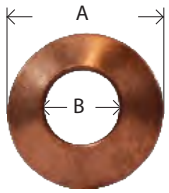
NFTS
FTC5

PART #	THREAD SIZE UNF	A	APPROX. WT. LBS.	LIST PRICE
10081	1/4"	0.62	0.02	---
10082	3/8"	0.70	0.03	

NFT5

COPPER GASKET

SAE# 010113



463

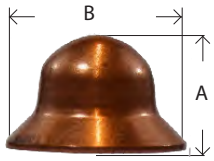
PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
10084	3/16"	0.31	0.12	0.01	---
10085	1/4"	0.36	0.19	0.01	---
10086	5/16"	0.42	0.22	0.01	---
10087	3/8"	0.55	0.28	0.01	---
10088	1/2"	0.66	0.41	0.01	---
10089	5/8"	0.77	0.50	0.01	---
10090	3/4"	0.95	0.62	0.01	---

B2 2GF 6251 FG 157 59 46

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COPPER BONNET

SAE# 010114

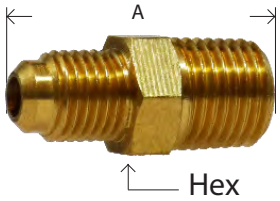


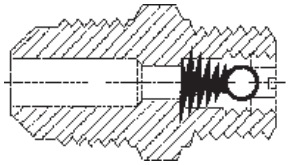
464

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
10094	3/16″	0.16	0.31	0.01	---
10095	1/4″	0.22	0.36	0.01	---
10097	3/8″	0.34	0.55	0.01	---
10098	1/2″	0.41	0.66	0.01	---
10099	5/8″	0.44	0.77	0.01	---
10100	3/4″	0.56	0.95	0.01	---

B1 3GF 64C 57 156 FB 695 464

MALE BALL CHECK CONNECTOR





43
403

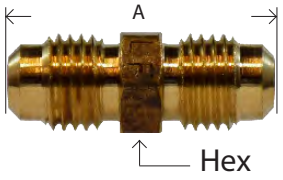
PART #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10131*	1/4" x 1/8"	1.06	0.43		---
10256WC	1/4″ x 1/4″	1.24	0.6	0.04	---
10133*	3/8″ x 1/4″	1.31	0.62	0.08	---
10132	5/16" x 1/8"	1.14	0.50	0.04	

43A

* Note: Ball & Spring position may be reversed to change flow/check position. Min working pressure 3 PSI.

UNION

SAE# 010101



42
402

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10104	1/8″	0.91	0.31	0.02	---
10105	3/16″	1.06	0.37	0.02	---
10106L	1/4″	1.19	0.43	0.03	---
10106 *	1/4″	1.19	0.43	0.03	---
10106EH	1/4"	1.55	0.56	0.05	
10107	5/16″	1.34	0.50	0.05	---
10108L	3/8″	1.50	0.62	0.09	---
10108 *	3/8′	1.50	0.62	0.09	---
10109L	1/2″	1.67	0.75	0.12	---
10109	1/2″	1.81	0.75	0.14	---
10110L	5/8″	2.00	0.87	0.20	---
10110	5/8″	2.12	0.87	0.20	---
10111	3/4″	2.44	1.06	0.35	---
10112	7/8″	2.72	1.25	0.52	---

* Available in Stainless Steel. Add SS to the part# 42F U2

"L" means light pattern.

-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

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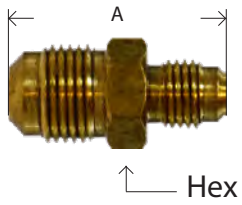
SAE 45° FLARE
BRASS FITTINGS

REDUCING UNION

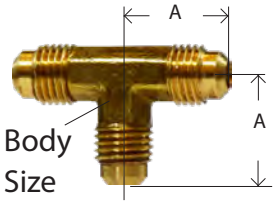


42R
506

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10115	1/4" x 1/8"	1.11	0.44	0.03	---
10116	1/4" x 3/16"	1.12	0.44	0.03	---
10117	5/16" x 1/4"	1.28	0.50	0.04	---
10118	3/8" x 1/4"	1.38	0.62	0.06	---
10119	3/8" x 5/16"	1.44	0.62	0.08	---
10120	1/2" x 1/4"	1.53	0.75	0.10	---
10121	1/2" x 3/8"	1.69	0.75	0.10	---
10122	5/8" x 3/8"	1.88	0.87	0.17	---
10123	5/8" x 1/2"	1.87	0.87	0.14	---
10126	3/4" x 1/2"	2.18	1.06	0.26	---
10127	3/4" x 5/8"	2.20	1.06	0.27	---

656F UR2 42-R

UNION TEE



Forged Tee

44F
404
244

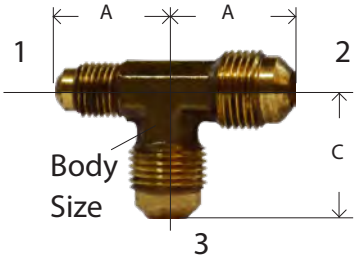
SAE# 010401

PART #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10157	1/8"	0.67	0.36	0.04	---
10158	3/16"	0.75	0.36	0.06	---
10159 **	1/4"	0.78	0.36	0.06	---
10160 **	5/16"	0.91	0.44	0.10	---
10161 **	3/8"	1.00	0.44	0.12	---
10162	1/2"	1.16	0.59	0.19	---
10163	5/8"	1.41	0.69	0.30	---
10164	3/4"	1.64	0.88	0.53	---
10165	7/8"	1.75	1.25	0.93	---

** Available in Stainless Steel. Add SS to the part#

244F T2 144F

REDUCING TEE 1 X 2 X 3



44FR
509

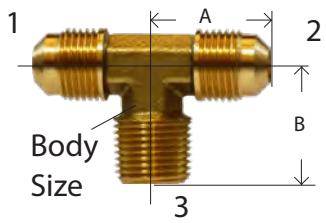
PART #	THREAD SIZE UNF 1X2X3	A	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10170	1/4" x 1/4" x 3/8"	0.91	1.00	0.44	0.10	---
10171	5/16" x 5/16" x 1/4"	0.94	0.94	0.44	0.12	---
10172	3/8" x 1/4" x 1/4"	0.91	1.00	0.44	0.10	---
10173	3/8" x 1/4" x 3/8"	1.00	0.91	0.44	0.12	---
10174	3/8" x 3/8" x 1/4"	1.00	0.88	0.44	0.11	---
10175	3/8" x 3/8" x 1/2"	1.00	1.19	0.59	0.14	---
10176	3/8" x 3/8" x 5/8"	1.16	1.44	0.69	0.16	---
10178	1/2" x 3/8" x 3/8"	1.16	1.12	0.59	0.18	---
10179	1/2" x 3/8" x 1/2"	1.16	1.09	0.59	0.18	---
10180	1/2" x 1/2" x 1/4"	1.16	0.97	0.59	0.18	---
10181	1/2" x 1/2" x 3/8"	1.16	1.12	0.59	0.19	---
10182	1/2" x 1/2" x 5/8"	1.28	1.41	0.69	0.28	---
10187	5/8" x 1/2" x 5/8"	1.44	1.33	0.69	0.27	---
10188	5/8" x 5/8" x 3/8"	1.38	1.16	0.69	0.30	---
10189	5/8" x 5/8" x 1/2"	1.38	1.28	0.69	0.28	---

144F TR2 659F 684F 44R

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE
BRASS FITTINGS

MALE BRANCH TEE
SAE# 010425



Forged Tee

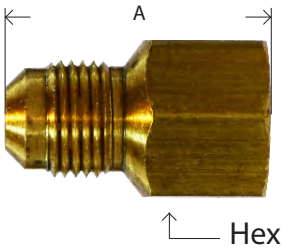
45R
245
405

PART #	MALE FLARE X MALE NPT (1&2) X3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10203	3/16" x 1/8"	0.75	0.75	0.36	0.10	---
10204	1/4" x 1/8"	0.78	0.75	0.36	0.05	---
10205	1/4" x 1/4"	0.88	0.88	0.44	0.08	---
10206	1/4" x 3/8"	0.92	1.00	0.47	0.10	---
10207	5/16" x 1/8"	0.89	0.78	0.44	0.08	---
10208	5/16" x 1/4"	0.94	0.94	0.44	0.08	---
10209	3/8" x 1/8"	1.00	0.91	0.44	0.14	---
10210	3/8" x 1/4"	1.00	0.94	0.44	0.12	---
10211 **	3/8" x 3/8"	1.00	1.00	0.47	0.13	---
10212 **	3/8" x 1/2"	1.12	1.22	0.69	0.22	---
10213	1/2" x 1/4"	1.16	1.00	0.59	0.20	---
10214	1/2" x 3/8"	1.16	1.14	0.59	0.19	---
10215	1/2" x 1/2"	1.22	1.22	0.69	0.24	---
10216	1/2" x 3/4"	1.38	1.41	0.88	0.22	---
10217	5/8" x 3/8"	1.38	1.25	0.69	0.24	---
10218	5/8" x 1/2"	1.41	1.31	0.69	0.29	---
10219	5/8" x 3/4"	1.41	1.41	0.88	0.36	---
10220	3/4" x 1/2"	1.63	1.59	0.88	0.49	---

** Available in Stainless Steel. Add SS to the part#

T1 145F 45

FEMALE ADAPTER
SAE# 010103



46
246
406

PART #	MALE FLARE X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10227	3/16" x 1/8"	0.97	0.56	0.03	---
10228L	1/4" x 1/8"	1.03	0.56	0.03	---
10228	1/4" x 1/8"	1.03	0.56	0.04	---
10229L	1/4" x 1/4"	1.06	0.68	0.06	---
10229	1/4" x 1/4"	1.23	0.68	0.07	---
10230	1/4" x 3/8"	1.18	0.81	0.08	---
10231	1/4" x 1/2"	1.31	0.94	0.06	---
10232	5/16" x 1/8"	1.06	0.56	0.05	---
10233	5/16" x 1/4"	1.28	0.68	0.08	---
10234	3/8" x 1/8"	1.09	0.62	0.08	---
10235L	3/8" x 1/4"	1.25	0.68	0.08	---
10235	3/8" x 1/4"	1.31	0.81	0.08	---
10236L	3/8" x 3/8"	1.25	0.81	0.08	---
10236	3/8" x 3/8"	1.25	0.81	0.10	---
10237L	3/8" x 1/2"	1.31	0.94	0.08	---
10237	3/8" x 1/2"	1.60	1.00	0.16	---
10238	3/8" x 3/4"	1.41	1.18	0.11	---
10239	1/2" x 1/4"	1.37	0.75	0.10	---
10240L	1/2" x 3/8"	1.38	0.81	0.12	---
10240	1/2" x 3/8"	1.50	0.81	0.14	---
10241L	1/2" x 1/2"	1.42	0.94	0.10	---
10241	1/2" x 1/2"	1.75	1.00	0.12	---
10242L	1/2" x 3/4"	1.40	1.10	0.16	---
10242	1/2" x 3/4"	1.60	1.12	0.16	---
10243	5/8" x 3/8"	1.24	0.87	0.12	---
10244L	5/8" x 1/2"	1.51	0.86	0.15	---
10244	5/8" x 1/2"	1.62	0.94	0.12	---
10245	5/8" x 3/4"	1.65	1.12	0.17	---
10246	3/4" x 1/2"	1.74	1.18	0.32	---
10247	3/4" x 3/4"	1.75	1.18	0.22	---
10248	7/8" x 3/4"	1.94	1.31	0.26	---

46 U3

- More sizes available.

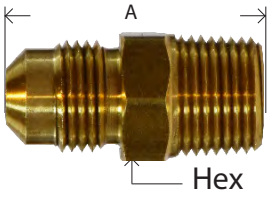
"L" means light pat-

-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE
BRASS FITTINGS

MALE ADAPTER



48
248
408

SAE# 010102

PART #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10253	1/8″ x 1/8″	0.92	0.43	0.02	---
10254	3/16″ x 1/8″	1.00	0.43	0.03	---
10255L	1/4″ x 1/8″	1.06	0.43	0.03	---
10255 *	1/4″ x 1/8″	1.06	0.43	0.04	---
10255EH	1/4" x 1/8"	1.06	0.44	0.03	
10256L	1/4″ x 1/4″	1.15	0.56	0.03	---
10256 *	1/4″ x 1/4″	1.25	0.56	0.04	---
10256SS	1/4" x 1/4"				
10257 *	1/4″ x 3/8″	1.31	0.68	0.06	---
10258	1/4″ x 1/2″	1.44	0.87	0.11	---
10259L	5/16″ x 1/8″	1.15	0.50	0.04	---
10259	5/16″ x 1/8″	1.16	0.50	0.04	---
10260L	5/16″ x 1/4″	1.31	0.56	0.06	---
10260	5/16″ x 1/4″	1.34	0.56	0.06	---
10261 *	5/16″ x 3/8″	1.38	0.68	0.08	---
10262	3/8″ x 1/8″	1.25	0.62	0.07	---
10263L	3/8″ x 1/4″	1.31	0.62	0.06	---
10263 *	3/8″ x 1/4″	1.44	0.62	0.08	---
10263SS	3/8" x 1/4"				
10264L	3/8″ x 3/8″	1.37	0.68	0.09	---
10264 *	3/8″ x 3/8″	1.42	0.68	0.09	---
10264SS	3/8" x 3/8"				
10265L	3/8″ x 1/2″	1.44	0.89	0.12	---
10265 *	3/8″ x 1/2″	1.69	0.87	0.14	---
10266	3/8″ x 3/4″	1.81	1.06	0.18	---
10267	1/2″ x 1/4″	1.60	0.75	0.11	---
10268L	1/2″ x 3/8″	1.46	0.75	0.10	---
10268	1/2″ x 3/8″	1.62	0.75	0.12	---
10269L	1/2″ x 1/2″	1.62	0.87	0.13	---
10269	1/2″ x 1/2″	1.79	0.87	0.15	---
10270	1/2″ x 3/4″	1.75	1.06	0.22	---
10271	5/8″ x 1/4″	1.81	0.87	0.14	---
10272L	5/8″ x 3/8″	1.67	0.87	0.14	---
10272	5/8″ x 3/8″	1.81	0.87	0.18	---
10273L	5/8″ x 1/2″	1.80	0.87	0.11	---
10273	5/8″ x 1/2″	2.00	0.87	0.20	---
10274	5/8″ x 3/4″	1.85	1.06	0.21	---
10275	3/4″ x 1/2″	2.19	1.06	0.28	---
10276	3/4″ x 3/4″	2.08	1.06	0.28	---
10277	7/8″ x 1/2″	2.22	1.25	0.52	---
10278	7/8″ x 3/4″	2.35	1.25	0.41	---
10279	1″ x 3/4″	2.44	1.43	0.53	---
10280	1″ x 1″	2.44	1.43	0.53	---

* Available in Stainless Steel. Add SS to the part#

U1 48

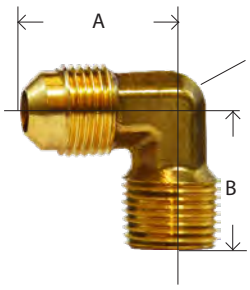
"L" means light pattern.

-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

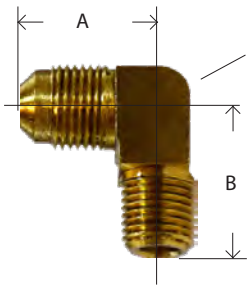
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

90° MALE ELBOW

SAE# 010202



Forged Elbow



Barstock Elbow

49
249
409

PART #	MALE FLARE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10283	1/8″ x 1/8″	0.63	0.73	0.37	0.04	---
10283B*	1/8″ x 1/8″	0.62	0.69	0.43	0.04	---
10284	3/16″ x 1/8″	0.75	0.75	0.38	0.04	---
10284B*	3/16″ x 1/8″	0.75	0.75	0.43	0.06	---
10285	3/16″ x 1/4″	0.81	0.88	0.44	0.08	---
10286	1/4″ x 1/8″	0.84	0.78	0.38	0.04	---
10286L	1/4″ x 1/8″	0.96	0.80	0.37	0.04	---
10286B*	1/4″ x 1/8″	0.81	0.78	0.47	0.05	---
10287 **	1/4″ x 1/4″	0.81	0.88	0.44	0.05	---
10287B*	1/4″ x 1/4″	0.91	0.93	0.59	0.08	---
10288 **	1/4″ x 3/8″	0.91	0.91	0.47	0.08	---
10289	1/4″ x 1/2″	1.03	1.09	0.59	0.10	---
10290	5/16″ x 1/8″	0.91	0.88	0.44	0.06	---
10290B*	5/16″ x 1/8″	0.91	0.78	0.52	0.06	---
10291	5/16″ x 1/4″	0.98	0.96	0.44	0.08	---
10291B*	5/16″ x 1/4″	0.95	0.92	0.62	0.08	---
10292	5/16″ x 3/8″	1.06	1.09	0.59	0.08	---
10293	3/8″ x 1/8″	1.00	0.91	0.53	0.08	---
10293B*	3/8″ x 1/8″	1.03	0.91	0.65	0.08	---
10294	3/8″ x 1/4″	1.01	0.89	0.48	0.08	---
10294B*	3/8″ x 1/4″	0.97	1.04	0.68	0.11	---
10295 **	3/8″ x 3/8″	1.00	0.88	0.47	0.10	---
10295L	3/8″ x 3/8″	0.95	0.89	0.46	0.11	---
10295B*	3/8″ x 3/8″	1.06	1.09	0.69	0.12	---
10296 **	3/8″ x 1/2″	1.10	1.09	0.59	0.12	---
10297	3/8″ x 3/4″	1.25	1.31	0.81	0.12	---
10298	1/2″ x 1/4″	1.19	1.00	0.59	0.12	---
10298B*	1/2″ x 1/4″	1.22	1.19	0.81	0.12	---
10299	1/2″ x 3/8″	1.10	1.00	0.59	0.13	---
10299B*	1/2″ x 3/8″	1.22	1.12	0.77	0.18	---
10300	1/2″ x 1/2″	1.16	1.13	0.59	0.14	---
10300B*	1/2″ x 1/2″	1.26	1.26	0.94	0.26	---
10301	1/2″ x 3/4″	1.42	1.25	0.81	0.24	---
10311	5/8″ x 1/4″	1.34	1.13	0.72	0.28	---
10302	5/8″ x 3/8″	1.35	1.22	0.72	0.20	---
10302B*	5/8″ x 3/8″	1.41	1.25	0.94	0.20	---
10303	5/8″ x 1/2″	1.35	1.22	0.72	0.20	---
10303L	5/8″ x 1/2″	1.29	1.11	0.70	0.20	---
10303B*	5/8″ x 1/2″	1.41	1.38	0.94	0.20	---
10304	5/8″ x 3/4″	1.44	1.31	0.81	0.25	---
10305	3/4″ x 1/2″	1.67	1.50	0.88	0.34	---
10306	3/4″ x 3/4″	1.67	1.63	0.88	0.30	---
10306B*	3/4″ x 3/4″	1.60	1.62	0.91	0.32	---
10307	7/8″ x 3/4″	1.75	1.68	1.00	0.44	---
10308	1″ x 3/4″	1.94	1.69	1.31	0.75	---
10309	1″ x 1″	1.94	1.75	1.25	0.78	---

* Barstock
** Available in Stainless Steel. Add SS to the part#

Dimension data can change without notice. Please check when dimensions are critical.

249F 49 E1 149F

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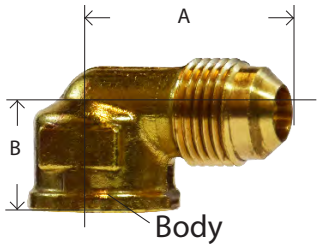
SAE 45° FLARE
BRASS FITTINGS

90° FEMALE ELBOW

SAE# 010203



Forged Elbow

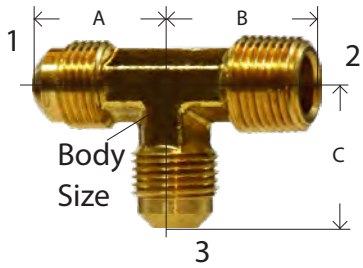
50F
250
500

PART #	MALE FLARE X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10312	3/16" x 1/8"	0.81	0.44	0.56	0.05	---
10313	1/4" x 1/8"	0.90	0.46	0.56	0.06	---
10313B*	1/4" x 1/8"	0.95	0.46	0.56	0.06	---
10314	1/4" x 1/4"	0.97	0.59	0.75	0.08	---
10314B*	1/4" x 1/4"	0.95	0.66	0.75	0.08	---
10315	1/4" x 3/8"	1.03	0.57	0.81	0.09	---
10333	1/4" x 1/2"	1.08	0.66	1.00	0.12	---
10316	5/16" x 1/8"	0.94	0.88	0.45	0.08	---
10306B*	5/16" x 1/8"	0.94	0.87	0.56	0.07	---
10317	5/16" x 1/4"	1.03	0.58	0.75	0.06	---
10318	3/8" x 1/8"	1.00	0.88	0.47	0.10	---
10319	3/8" x 1/4"	1.06	0.59	0.75	0.09	---
10319B*	3/8" x 1/4"	1.15	0.73	0.68	0.14	----
10320	3/8" x 3/8"	1.06	0.57	0.81	0.10	---
10320B*	3/8" x 3/8"	1.10	0.75	0.82	0.16	---
10321	3/8" x 1/2"	1.16	0.66	1.00	0.14	---
10321L	3/8" x 1/2"	1.21	0.42	0.96	0.13	---
10322	3/8" x 3/4"	1.28	0.72	1.25	0.12	---
10323	1/2" x 1/4"	1.25	0.70	0.88	0.13	---
10324	1/2" x 3/8"	1.25	0.70	0.88	0.12	---
10324B*	1/2" x 3/8"	1.26	0.75	0.88	0.16	---
10325	1/2" x 1/2"	1.29	0.72	1.00	0.18	---
10325L	1/2" x 1/2"	1.24	0.71	0.98	0.17	---
10326	1/2" x 3/4"	1.41	0.72	1.25	0.20	---
10327	5/8" x 3/8"	1.35	1.22	0.72	0.22	---
10328	5/8" x 1/2"	1.38	0.75	1.00	0.20	---
10329	5/8" x 3/4"	1.50	0.76	1.25	0.28	---

* Barstock

E3 50 150F

FORGED MALE RUN TEE



51F
501

PART #	MALE FLARE X MALE NPTF (1&3) X 2	A	B	C	BODY SIZE	AP-PROX. WT. LBS.	LIST PRICE
10361	3/16" x 5/16" x 1/8"	0.87	0.78	0.97	0.44	0.08	---
10343	3/16" x 1/8"	0.75	0.75	0.75	0.37	0.05	---
10344	1/4" x 1/8"	0.78	0.75	0.78	0.37	0.06	---
10344B*	1/4" x 1/8"	0.90	0.76	0.86	0.37	0.07	---
10345	1/4" x 1/4"	0.88	0.88	0.88	0.44	0.08	---
10347	5/16" x 1/8"	0.88	0.80	0.88	0.44	0.08	---
10348	5/16" x 1/4"	0.94	0.94	0.94	0.44	0.08	---
10350	3/8" x 1/4"	1.00	0.94	1.00	0.44	0.12	---
10351	3/8" x 3/8"	1.00	1.00	1.00	0.47	0.10	---
10340	3/8" x 1/2" x 3/8"	1.09	1.09	1.16	0.59	0.18	---
10352	3/8" x 1/2"	1.12	1.22	1.12	0.69	0.12	---
10353	1/2" x 3/8" x 1/2"	1.22	1.22	1.15	0.69	0.22	---
10354	1/2" x 3/8"	1.16	1.09	1.16	0.59	0.18	---
10355	1/2" x 1/2"	1.22	1.22	1.22	0.69	0.22	---
10357	5/8" x 1/2"	1.41	1.31	1.41	0.69	0.28	---
10359	3/4" x 1/2"	1.63	1.59	1.63	0.88	0.48	---
10360	3/4" x 3/4"	1.62	1.44	1.62	0.88	0.48	---

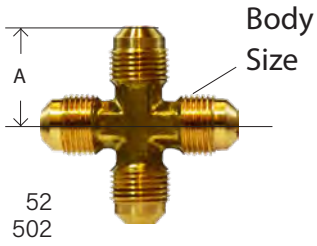
Dimension data can change without notice. Please check when dimensions are critical.

T3 151F 51

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FORGED FLARE CROSS

SAE# 010501

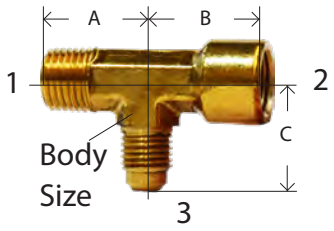


52
502

PART #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10373	1/4″	0.88	0.44	0.10	---
10374	5/16″	0.92	0.44	0.10	---
10375	3/8″	1.00	0.44	0.16	---
10376	1/2″	1.16	0.59	0.24	---

455 C1 147F 52

FORGED ADAPTER TEE / SERVICE TEE

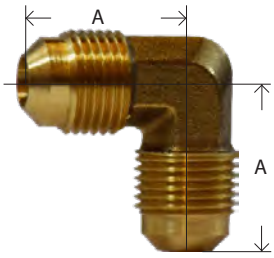


53
503

PART #	SIZE 1 X 2 X 3	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10382	1/8″ x 1/8″ x 1/4″	0.72	0.53	0.80	0.47	0.08	---

T17 53

FORGED 90° FLARE ELBOW



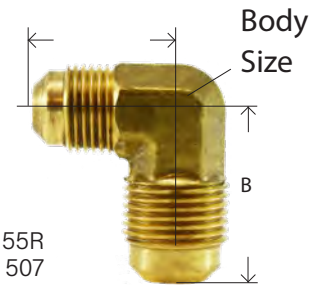
55F
505

PART #	THREAD SIZE UNF	A	APPROX. WT. LBS.	LIST PRICE
10404	1/8″	0.64	0.04	---
10405	3/16″	0.75	0.06	---
10406	1/4″	0.81	0.08	---
10406B*	1/4"	0.89	0.04	---
10407	5/16″	0.91	0.10	---
10408	3/8″	1.00	0.10	---
10409	1/2″	1.16	0.14	---
10409B*	1/2"	1.23	0.22	---
10410	5/8″	1.41	0.22	---
10411	3/4″	1.66	0.68	---
10412	7/8″	1.81	0.82	---

* Barstock

E2 155F

FORGED REDUCING ELBOW



55R
507

PART #	MALE FLARE X MALE FLARE	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10416	3/8″ x 1/4″	1.00	0.88	0.47	0.08	---
10419	1/2″ x 3/8″	1.19	1.02	0.59	0.14	---
10421	5/8″ x 1/2″	1.34	1.23	0.72	0.21	---

ER2 657F 55R

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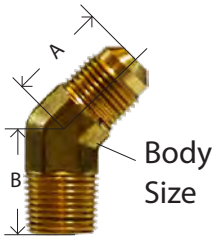
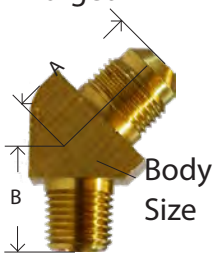
SAE 45° FLARE
BRASS FITTINGS

45° ELBOW



Forged



54 Barstock
4945
40945

SAE# 010302

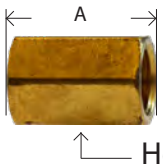
PART #	MALE FLARE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10448	1/4" x 1/8"	0.67	0.64	0.41	0.04	---
10448B*	1/4" x 1/8"	0.67	0.64	0.44	0.04	---
10449	1/4" x 1/4"	0.75	0.86	0.53	0.07	---
10450	5/16" x 1/8"	0.78	0.64	0.53	0.06	---
10451	5/16" x 1/4"	0.81	0.86	0.53	0.07	---
10452	3/8" x 1/4"	0.91	0.86	0.53	0.09	---
10452B*	3/8" x 1/4"	0.89	0.86	0.64	0.12	---
10453	3/8" x 3/8"	0.93	0.94	0.59	0.11	---
10454	3/8" x 1/2"	0.99	1.17	0.75	0.19	---
10455	1/2" x 3/8"	1.07	0.88	0.59	0.12	---
10455B*	1/2" x 3/8"	1.06	0.94	0.76	0.18	---
10456	1/2" x 1/2"	1.12	1.18	0.75	0.20	---
10460	5/8" x 3/8"	1.13	0.95	0.81	0.22	---
10457	5/8" x 1/2"	1.12	1.17	0.78	0.18	---
10458	3/4" x 1/2"	1.28	1.16	0.88	0.26	---

* Barstock

E145 54 159F 654F 59FF 254 47 4945

FEMALE 45° FLARE FITTINGS

UNION



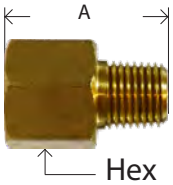
600
600F

SAE# 010107 ▪ Use with Copper Gasket

PART #	FEMALE FLARE X FEMALE FLARE	A	HEX	APPROX. WT. LBS.	LIST PRICE
10135	1/4"	1.00	0.62	0.06	---
10136	3/8"	1.25	0.81	0.14	---
10137	1/2"	1.43	0.94	0.18	---
10138	5/8"	1.69	1.07	0.24	---
10139	3/4"	2.00	1.31	0.42	---

2310 U4 660HD 32

FEMALE FLARE ADAPTER



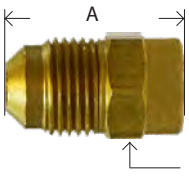
664

SAE# 010106

PART #	FEMALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10440	1/4" x 1/8"	0.91	0.62	0.05	---
10441	1/4" x 1/4"	1.01	0.62	0.06	---
10442	3/8" x 1/4"	1.28	0.81	0.10	---
10438	3/8" x 1/2"				
10443	1/2" x 3/8"	1.36	0.94	0.14	---
10444	1/2" x 1/2"	1.46	0.94	0.14	---
10439	5/8" x 1/2"				

U5 664FHD 33 48-FF

FLARE REDUCER
SAE# 010105



601

PART #	MALE FLARE X FEMALE FLARE	A	HEX	APPROX. WT. LBS.	LIST PRICE
10462	1/4" x 3/8"	1.22	0.81	0.10	---
10461	1/4" x 1/2"	1.36	0.94	0.14	---
10463 *	3/8" x 1/4"	1.12	0.62	0.06	---
10464	3/8" x 1/2"	1.44	0.94	0.14	---
10473	3/8" x 5/8"	1.63	1.12	0.16	---
10467	1/2" x 3/8"	1.41	0.81	0.13	---
10468	1/2" x 5/8"	1.68	1.06	0.20	---
10469	5/8" x 1/2"	1.63	1.00	0.17	---
10470	5/8" x 3/4"	1.97	1.31	0.31	---

▪ More sizes available

* Available in Stainless Steel. Add SS to the part#

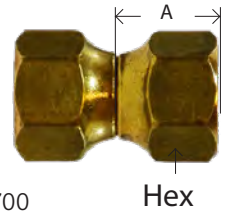
UR3 661FHD 227 46-FF

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE
BRASS FITTINGS

BRASS FLARE SWIVEL FITTINGS

FORGED SWIVEL
SAE# 010108

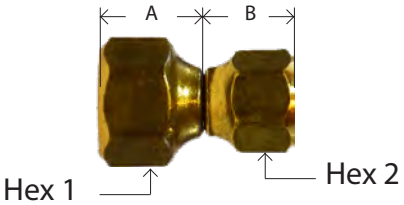


700

PART #	FEMALE FLARE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10481	1/4″	0.59	0.62	0.04	---
10482	5/16″	0.62	0.68	0.06	---
10483	3/8″	0.69	0.81	0.10	---
10483L	3/8"	0.63	0.80		---
10484	1/2″	0.81	0.94	0.16	---
10484L	1/2"	0.82	0.92		---
10485	5/8″	0.94	1.06	0.24	---
10486	3/4″	1.12	1.31	0.34	---

1350 US4 14FSV 34

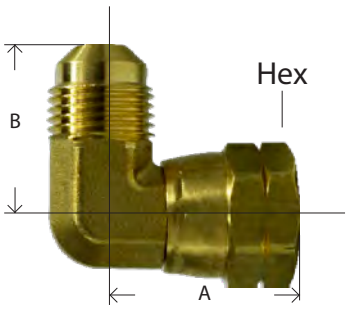
REDUCING SWIVELS



700R

PART #	FEMALE FLARE UNF	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
10487	3/8″ x 1/4″	0.72	0.60	0.81	0.62	0.08	---
10488	1/2″ x 3/8″	0.84	0.70	0.94	0.81	0.12	---
10489	5/8″ x 1/2″	0.98	0.82	1.03	0.94	0.22	---

FORGED SWIVEL ELBOWS



701

PART #	MALE FLARE X FEMALE FLARE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
10493	1/4″	0.93	0.86	.563	0.12	---
10494	3/8″	1.13	1.1	.75	0.20	---
10495	1/2"	1.29	1.20	.88	0.25	---
10496	5/8"	1.50	1.30	1.00	0.37	---
10497	3/4"	1.83	1.60	1.25	0.54	---

ES4

FLARE SWEAT FITTINGS

PART #	FLARE X SWEAT	LIST PRICE
10600	1/4" x 1/4"	---
10602	1/4" x 3/8"	---
10620	3/8" x 1/4"	---
10612	3/8" x 3/8"	---
10613	3/8" x 1/2"	---
10621	1/2" x 1/2"	---
10611	1/2" x 5/8"	---
10614	5/8" x 5/8"	---
10622	5/8" x 7/8"	---
10615	3/4" x 3/4"	---
10616	3/4" x 7/8"	---
10617	7/8" x 7/8	---
10618	1" x 1-1/8"	---
10619	1-1/8" x 1-1/8"	---

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SPACE HEATER/ GAS RANGE FITTINGS

BRASS FITTINGS

SPACE HEATER FITTINGS

9/16-24 FINE THREAD FLARE NUT

#M-82SH

41FT
800

PART #	SIZE	LIST PRICE
14001	3/8	---

MALE ADAPTER

#M-83SH

PART #	SIZE	LIST PRICE
14016	3/8 x 3/8	---
14017	3/8 x 1/2	---

FEMALE ADAPTER

#M-80SH

46FT
805

PART #	SIZE	LIST PRICE
14018	3/8 x 3/8	---
14025	3/8 x 1/2	---

UNION

PART #	SIZE	LIST PRICE
14011	3/8	---

BRASS GAS RANGE FITTINGS

BRASS MALE ADAPTERS 15/16-16 FLARE THREAD

45RG
408RC

PART #	MALE FLARE X MALE NPTF	LIST PRICE
35130	3/8" x 3/8"(1/8 Tap)	---
35133	3/8" x 3/8"(1/4 Tap)	---
35131	3/8" x 1/2"(3/8 Tap)	---
35132	1/2" x 1/2" (3/8" FIP TAP)	---
35134	15/16" x 1/2"	---

BRASS FEMALE ADAPTERS

PART #	FLARE X FIP	LIST PRICE
35136	15/16" x 1/2"	---

DRUM ADAPTERS

K1

- Straight Thread

SAE# 010165

PART #	MALE FLARE X FIP	LIST PRICE
50011	1/4" x 1/2"	---
50001	1/4" x 3/4"	---

RD IF K1

CAP

PART #	SIZE	LIST PRICE
35186	15/16"	---

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TEE CONNECTION

2000

PART #	PIPE SIZE	LIST PRICE
34001	1/4" Inverted flare x 1/4" MPT	---

41-1-390-0014 2000

TAILPIECE WITH FLATS

2001A

1/4 NPT

PART #	DESCRIPTION	LIST PRICE
34011	2.34 w/ wrench Flats	---

1001AUL 21605 M-2001-A 2002A 2001AHN

STANDARD NUT

7/8" Hex

2001B

PART #	PIPE SIZE	LIST PRICE
34016	.880-14 LH	---

2001B

TAILPIECE & NUT ASSEMBLY

2002AB

PART #	PIPE SIZE	LIST PRICE
34022	1/4	---

2002AB

POL CAP

2004

PART #	PIPE SIZE	LIST PRICE
34031	.880-14LH	---

ME1699 POL2004 1004A M-2004

POL PLUG WITH CHAIN

2014

PART #	DESCRIPTION	LIST PRICE
34141	POL PLUG WITH CHAIN	---

ME1691-1

SINGLE PIECE POL ADAPTER

2008

PART #	DESCRIPTION	LIST PRICE
34130	MALE POL X 1/4 FPT	---
34131	MALE POL X 1/2 FPT	---

ME351 ME357

ADAPTERS

35792
35810

PART #	PIPE SIZE	LIST PRICE
34041	3/8 Flare x .880-14LH	---
34046	1/2 Flare x .880-14LH	---
34051	5/8 Flare x .880-14LH	---

ME3510 2906E 2007

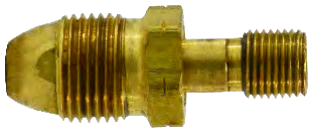
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

POL FITTINGS
BRASS FITTINGS

TAILPIECE ASSEMBLY W/HEX HEAD NUT & STEM

PART #	LENGTH	LIST PRICE
34080	1/4 NPT X POL 2 LONG HARD NOSE 2 OAL	---
34082	MALE POL X 3/8 NPT	---

2906D ME352



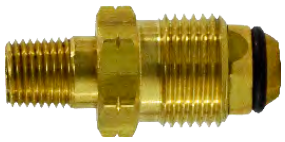
PART #	LENGTH	LIST PRICE
34088	MPOL HARD NOSE 9/16-18 FE LH THREAD	---

ME1650

PART #	LENGTH	LIST PRICE
34084	MPOL X 1/4 HOSE BARB 7/8 HEX	---

ME5930 970JR

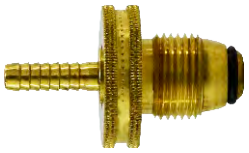
SOFT NOSE TAILPIECE ASSEMBLY



PART #	LENGTH	LIST PRICE
34060	1/4 NPT X POL 2.1 LONG #60 ORIFICE	---
34061	1/4 MPT X POL SOFT NOSE 2-1/2	---
34062	1/4 NPT POL SOFT NOSE #60 ORIFICE 2.3 LONG	---
34063	POL X 9/16-18 LH TAIL-PIECE SOFT NOSE	---
34064	1/4 NPT X POL SOFT NOSE 2 3/8 LONG	---

ME1638 2003-T-GH-60 2002 2018-L 2003-T 970S

HAND WHEEL POL ADAPTERS



PART #	LENGTH	LIST PRICE
34065	MPOL SOFT NOSE X 1/4 HOSE BARB BR.WHEEL	---

ME1656AR

PART #	LENGTH	LIST PRICE
34072	1/4 MPT POL SOFT NOSE W/PLASTIC WHEEL	---

ME1654

PART #	LENGTH	LIST PRICE
34073	1/4 MPT POL SOFT NOSE WITH BRASS WHEEL	---

ME1654AR

PART #	LENGTH	LIST PRICE
34074	MPOL SOFT NOSE X 1/4 HB W/PLASTIC WHEEL	---

ME1656

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PROPANE MOTOR FUEL FILL ADAPTER

- Allows a standard POL fitting to be adapted to fill an engine fuel tank.

PART #	LENGTH	LIST PRICE
34079	FE POL X 1 3/4 ACME FUEL FILL ADPT	---

ME458 2017

FEMALE POL X MIP ADAPTER

PART #	LENGTH	LIST PRICE
34111	1/4 MPT X FE POL ADAPTER	---
34112	3/8 MPT X FE POL ADAPTER	---
34113	1/2 MPT X FE POL ADAPTER	---
34114	3/4 MPT X FE POL ADAPTER	---

2011-B ME285 2011-D 2011-E

FEMALE FPT X FEMALE POL ADAPTER

PART #	LENGTH	LIST PRICE
34120	1/4 FPT X FE POL	---
34121	3/8 FPT X FE POL	---
34122	1/2 FPT X FE POL	---
34123	3/4 FPT X FE POL	---

2016-B ME302 2016-D ME304

POL O-RING ONLY

PART #	LENGTH	LIST PRICE
34143	POL O-RING ONLY	---

C5-OR-POL 568-110-01

POL PLASTIC DUST PLUG

PART #	LENGTH	LIST PRICE
34160	POL PLASTIC DUST PLUG	---

ME970P

APPLIANCE TEE

- Tap & Add

PART #	LENGTH	LIST PRICE
34170	M.POLXF.POL W/1-20M CYL AND 1/4 INV FLAR	---

2090

- Add an appliance

PART #	LENGTH	LIST PRICE
34172	M.POLXF. POL W/1-20 MALE CYLINDER THREAD	----

2012

- With QCC1 connection

PART #	LENGTH	LIST PRICE
34174	QCC1 X F. POL W/1-20 MALE CYLINDER THD	---

2013

DUAL APPLIANCE TEE

PART #	LENGTH	LIST PRICE
34176	M.POL X (2) OF 1-20 MALE CYLINDER THREAD	---

2099

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

JIC 37° FLARE STRAIGHTS

BRASS FITTINGS

STRAIGHT TUBE UNION

PART #	TUBE OD	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST PRICE
28966	1/4	7/16-20	1.35	0.49	3250 psi	---
28969	3/8	9/16-18	1.41	0.63	3250 psi	---
28970	1/2	3/4-16	1.62	0.81	3250 psi	---
28971	3/4	1-1/16-12	2.14	1.13	3250 psi	---
28972	1"	1-5/16-12	2.25	1.38	2600 psi	---

SBC 132403 HTXB

FEMALE STRAIGHT ADAPTER

PART #	TUBE OD	PIPE	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST PRICE
28957	1/4	1/8-27	7/16-20	1.19	0.56	3250 psi	---
28958	1/4	1/4-18	7/16-20	1.40	0.75	3250 psi	---
28959	3/8	1/4-18	9/16-18	1.40	0.75	3250 psi	---
28960	3/8	3/8-18	9/16-18	1.40	0.88	3250 psi	---
28961	1/2	3/8-18	3/4-16	1.56	0.88	3250 psi	---
28962	1/2	1/2-14	3/4-16	1.79	1.13	3250 psi	---
28963	5/8	1/2-14	7/8-14	1.87	1.13	3250 psi	---
28964	3/4	3/4-1/4	1-1/16-12	2.06	1.38	2600 psi	---

STRAIGHT

PART #	TUBE OD	A NPTF	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST PRICE
28701	1/4	1/8-27	7/16-20	1.22	0.45	3250 psi	---
28702	1/4	1/4-18	7/16-20	1.37	0.56	3250 psi	---
28703	1/4	3/8-18	7/16-20	1.42	0.75	3250 psi	---
28704	5/16	1/8-27	1/2-20	1.41	0.56	3250 psi	---
28705	5/16	1/4-18	1/2-20	1.42	0.56	3250 psi	---
28706	3/8	1/8-27	9/16-18	1.24	0.63	3250 psi	---
28707	3/8	1/4-18	9/16-18	1.43	0.63	3250 psi	---
28708	3/8	3/8-18	9/16-18	1.38	0.75	3250 psi	---
28709	3/8	1/2-14	9/16-18	1.69	0.88	3250 psi	---
28710	1/2	1/4-18	3/4-16	1.53	0.81	3250 psi	---
28711	1/2	3/8-18	3/4-16	1.53	0.81	3250 psi	---
28712	1/2	1/2-14	3/4-16	1.79	0.88	3250 psi	---
28713	1/2	3/4-14	3/4-16	1.85	1.13	2600 psi	---
28714	5/8	3/8	7/8-14	1.84	0.94	3250 psi	---
28715	5/8	1/2-14	7/8-14	1.89	0.94	3250 psi	---
28716	5/8	3/4-14	7/8-14	1.95	1.13	2600 psi	---
28748	3/4	1/2-14	1 1/16-12	2.06	1.13	2925 psi	---
28717	3/4	3/4-14	1 1/16-12	2.06	1.13	2600 psi	---
28749	3/4	1-11 1/2	1 1/16-12	2.25	1.38	1950 psi	---
28719	1	3/4-14	1 5/16-12	2.06	1.13	2275 psi	---
28718	1	1-11 1/2	1 5/16-12	2.3	1.38	1950 psi	---

B2404 SB FTXB

STRAIGHT SWIVEL ADAPTER

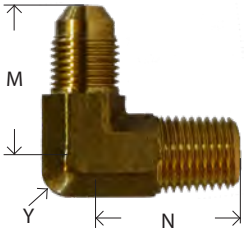
PART #	TUBE OD	A NPTF	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST PRICE
28752	1/4	1/4-18	7/16-20	1.389	.563	3250 psi	---
28753	3/8	1/4-18	9/16-18	1.6	.563	3250 psi	---
28754	3/8	3/8-18	9/16-18	1.574	.690	2925 psi	---
28756	1/2	1/2-14	3/4-16	1.706	.875	2600 psi	---

B6505 SJS

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

JIC 37° SHAPES
BRASS FITTINGS

90°FORGED ELBOW

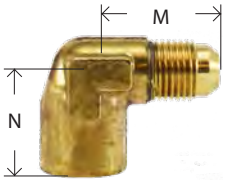


▪ Swivel available

PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE	LIST PRICE
28760F	1/4	7/16-20	1/8-27	0.89	0.78	0.5	2160 psi	---
28762F	1/4	7/16-20	1/4-18	1.05	1.03	0.53	1846 psi	---
28766F	5/16	1/2-20	1/4-18	1.10	1.10	0.55	3905 psi	---
28768F	3/8	9/16-18	1/8-27	1.06	1.00	0.56	3128 psi	---
28770F	3/8	9/16-18	1/4-18	1.06	1.09	0.54	1564 psi	---
28772F	3/8	9/16-18	3/8-18	1.15	1.22	0.74	1464 psi	---
28773F	3/8	9/16-18	1/2-14	1.22	1.47	0.90	1265 psi	---
28774F	1/2	3/4-16	3/8-18	1.25	1.22	0.81	1467 psi	---
28777F	1/2	3/4-16	1/2-14	1.31	1.47	0.90	1265 psi	---
28778F	1/2	3/4-16	3/4-14	1.4	1.59	0.89	2061 psi	---
28780F	5/8	7/8-14	1/2-14	1.45	1.47	0.88	1265 psi	---
28781F	3/4	1 1/16-12	1/2-14	1.66	1.56	1.08	1265 psi	---
28783F	3/4	1 1/16-12	3/4-14	1.66	1.59	1.06	1084 psi	---
28784F	1	1 5/16-12	3/4-14	1.88	1.77	1.32	1802 psi	---
28786F	1	1 5/16-12	1-11 1/2	1.81	1.97	1.3	2361 psi	---

DL3B2 3F69CL GGL6A1 F23L2 EE48D3 EE46B2 FF45A2 F48C3 FF22C3 D49B1 D25B1 3F47C1

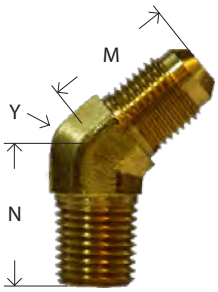
FEMALE ELBOW FORGED BODY



PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	WORKING PRESSURE	LIST PRICE
28973	1/4	7/16-20	1/8-27	1.08	0.66	2797 psi	---
28974	1/4	7/16-20	1/4-18	1.25	0.55	3066 psi	---
28975	3/8	9/16-18	1/4-18	1.23	0.88	2842 psi	---

B2502 EBF DTXB

45° FORGED ELBOW



▪ Swivel available

PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE	LIST PRICE
28722F	1/4	7/16-20	1/8-27	0.72	0.64	0.5	4367 psi	---
28724F	1/4	7/16-20	1/4-18	0.81	0.84	0.53	3750 psi	---
28728F	5/16	1/2-2	1/4-18	0.88	0.86	0.54		
28729F	3/8	9/16-18	1/8-27	0.83	0.65	0.63	3128 psi	---
28731F	3/8	9/16-18	1/4-18	0.83	0.86	0.63	3128 psi	---
28733F	3/8	9/16-18	3/8-18	0.91	0.95	0.81	3100 psi	---
28734F	3/8	9/16-18	1/2-14	1.03	1.17	0.94	2826 psi	---
28736F	1/2	3/4-16	3/8-18	0.98	0.95	0.75	2938 psi	---
28738F	1/2	3/4-16	1/2-14	1.13	1.17	0.86	2826 psi	---
28740F	5/8	7/8-14	1/2-14	1.13	1.08	0.88		
28742F	3/4	1 1/16-12	3/4-14	1.28	1.2	1.13	2442 psi	---

B2503 FBC-F VTXB

THREAD CHART

SIZE	JIC THREAD
1/8	5/16-24
3/16	3/8-24
1/4	7/16-20
5/16	1/2-20
3/8	9/16-18
1/2	3/4-16
5/8	7/8-14
3/4	1-1/16-12
1	1-5/16-12

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE FITTINGS

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Thread O.D. threads per inch	5/16-28	3/8-24	7/16-24	1/2-20	5/8-18	11/16-18	3/4-18	7/8-18	1-1/16-16	1-3/16-16	1-5/16-16

▪Typical Application
Hydraulic brake, power steering, fuel lines and transmission cooler lines, LP and natural gas.

▪Working Pressure Ranges
Temperature and type of tubing used are important factors. However, the following table is a good guide for proper selection. Temperature 73°F with copper tubing:

PSI	Tube O.D. (in.)	Tube Wall (in.)
2300	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035

▪Vibration
Excellent resistance.

▪Temperature Range
-65°F to +250°F (-53°C to +121°C) range at maximum operating pressures.

▪Used With
Copper, brass, aluminum and steel hydraulic tubing that can be flared.

▪Advantages
Very low cost and reusable. Seats and threads are internal and protected. Compact, excellent vibration life. Short nut affords very close tube bends. Steel or brass tube nut.

▪ Tolerance
+/- .03 on all dimensions.

▪Conformance
Meets specifications and standards of ASA, ASME, SAE and MS (Military Standards).

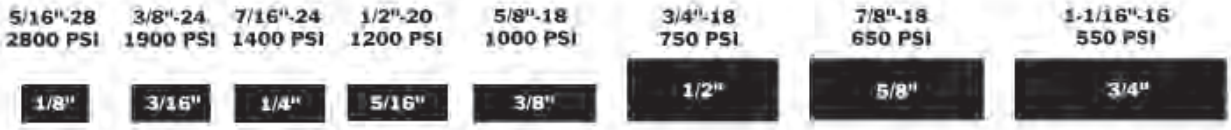
▪Assembly Instructions
1-Cut tubing to desired length. Make sure all burrs are removed and the ends are cut square.
2- Slide nut on tube. Threaded end "A" of nut must face out.
3- Flare end of tube with a 45° flaring tool.
a- Measure flare diameter.
b- Examine flare for excessive thin out.
c- On thin wall, welded or brazed tubing, use double flare to prevent pinch-off and cracked flares.
4- Lubricate threads and assemble to fitting body. Nut should be turned hand tight.

STANDARD METRIC THREADS

Description Tube Size	Thread O.D.	Crest (Pitch)	Thread Description
Japanese 3/16"	10mm	1.0mm	M10 x 1.0
European 3/16"	10mm	1.0mm	M10 x 1.0
GM 6mm	12mm	1.0mm	M12 x 1.0
Fuel 5/16"	14mm	1.5mm	M14 x 1.5
Fuel 3/8?	16mm	1.5mm	M16 x 1.5

Measuring Metric Threads: Measure the O.D. of the threads and the crest to crest distance (pitch) in millimeters between threads.

Actual O.D. of male inverted flare threads



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INVERTED FLARE
BRASS FITTINGS

ZINC CHROMATE STEEL NUT

SAE# 040110

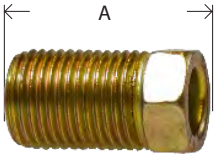
411FS
411NS

PART #	SIZE	THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
12001	1/8″	5/16-28	0.52	0.31	0.01	---
12002	3/16″	3/8-24	0.56	0.37	0.02	---
12018	3/16"	7/16-24	0.56	0.43	0.02	---
12003	1/4″	7/16-24	0.56	0.43	0.02	---
12004	5/16″	1/2-20	0.62	0.50	0.02	---
12005	3/8″	5/8-18	0.66	0.62	0.03	---
12000	7/16″	11/16-18	0.68	0.68	0.04	---
12011	3/8"	11/16-18	0.66	0.68	0.05	---
12006	1/2″	3/4-18	0.74	0.75	0.08	---
12007	5/8″	7/8-18	0.80	0.87	0.10	---
12008	3/4″	1-1/16-16	0.88	1.06	0.10	---
12083	7/8"	1-3/16-16	1.07	1.19	0.14	---
12084	1"	1-5/16-16	1.18	1.375	0.21	---

121XXX 2105 411FS 105 41W

LONG STEEL NUT

FOR DOMESTIC LINES



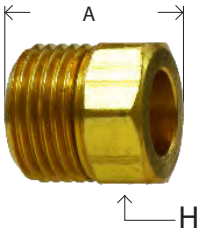
411NL

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
12009	3/16″	0.84	0.37	0.02	---
12010	1/4″	0.81	0.43	0.02	---

7896

INVERTED FLARE BRASS NUT

SAE# 040110



411FB
411NB

• More sizes available

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
12012	1/8″	0.52	0.31	0.01	---
12013	3/16″	0.56	0.37	0.01	---
12014	1/4″	0.56	0.43	0.02	---
12015	5/16″	0.62	0.50	0.03	---
12016	3/8″	0.66	0.62	0.04	---
12017	1/2″	0.74	0.75	0.05	---

2100 41IF 100 41IB

PART #	TUBESIZE	THREAD	REF#	LIST PRICE
12260	3/16 British	3/8-24 Bubble	---	---
12261	3/16 European	M10 x 1.0 Bubble	276110	---
12262	3/16 Japanese	M10 x 1.0 Inv.	121050	---
12263	3/16 Domestic	1/2 x 20 Inv.	---	---
12264	3/16 Domestic	9/16 - 18 Inv.	121039	---
12265	3/16 Imported	M11 x 1.5 Bubble	276011	---
12266	3/16 Imported	M12 x 1.0 Bubble	276012	---
12267	3/16 Imported	M13 x 1.5 Bubble	276013	---
12268	1/4 Domestic	9/16 x 18 Inv.	121049	---
12269	1/4 Domestic	1/2 x 20 Inv.	121045	---
12270	6mm Imported	M12 x 1.0 Bubble		---
12271	6mm GM	M12 x 1.0 Bubble		---
12272	6mm GM	M12 x 1.5 Bubble		---
12273	6mm GM	M14 x 1.5 Bubble		---
12274	5/16 Domestic	M14 x 1.5 Surface Seal	121069	---
12275	3/8 Domestic	M16 x 1.5 Surface Seal	121070	---

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INVERTED FLARE
BRASS FITTINGS

UNION INTERNAL

SAE# 040101

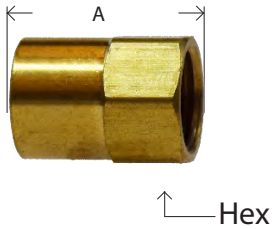
421F
421N

PART #	INV. FLARE X INV. FLARE	A	HEX	APPROX. WT. LBS.	LIST PRICE
12022	1/8″	0.59	0.40	0.02	---
12023	3/16″	0.62	0.43	0.02	---
12024	1/4″	0.62	0.50	0.03	---
12025	5/16″	0.70	0.56	0.04	---
12026	3/8″	0.80	0.75	0.08	---
12027	1/2″	0.91	0.90	0.10	---
12028	5/8"	1.31	1.06	0.22	---

302 2300 42IFHD

FEMALE ADAPTER

SAE# 040103



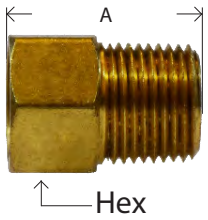
46IN
46IN

PART #	INV. FLARE X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
12029	1/8" x 1/8"	0.716	0.50	0.03	---
12032	3/16″ x 1/8″	0.75	0.50	0.02	---
12033	1/4″ x 1/8″	0.75	0.53	0.02	---
12030	1/4" x 1/4"	1.01	0.751	0.11	---
12034	5/16″ x 1/8″	0.78	0.59	0.04	---
12035	3/8″ x 1/4″	1.03	0.75	0.08	---
12031	7/16" x 1/4"	1.06	0.81	0.11	---
12037	1/2" x 1/4"	1.09	0.90	0.12	---
12036	1/2″ x 3/8″	1.10	0.90	0.12	---
12039	5/8" x 1/2"	1.32	1.065	0.19	---
12099	3/4" x 3/4"	1.50	1.25	0.36	---

46IFHD 252 46W

MALE ADAPTER

SAE# 040102



481N
481F

PART #	INV. FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
12041	1/8″ x 1/8″	0.63	0.40	0.02	---
12042	3/16″ x 1/8″	0.70	0.43	0.02	---
12053	3/16" x 1/4"	0.72	0.56	0.04	---
12043	1/4″ x 1/8″	0.74	0.50	0.03	---
12044	1/4″ x 1/4″	0.89	0.56	0.04	---
12045	5/16″ x 1/8″	0.79	0.56	0.03	---
12046	5/16″ x 1/4″	0.98	0.56	0.05	---
12055	5/16" x 3/8"	1.01	0.75	0.07	---
12047	3/8″ x 1/8″	0.88	0.72	0.05	---
12048	3/8″ x 1/4″	1.02	0.75	0.06	---
12049	3/8″ x 3/8″	1.02	0.75	0.08	---
12104	7/16" x 1/4"	1.05	0.81	0.06	---
12038	1/2″ x 1/4″	0.97	0.87	0.10	---
12050	1/2″ x 3/8″	1.06	0.87	0.08	---
12051	1/2″ x 1/2″	1.06	0.87	0.11	---
12052	5/8″ x 1/2″	1.32	1.06	0.15	---
12105	3/4" x 1/2"	1.38	1.25	0.18	---
12040	3/4″ x 3/4″	1.39	1.25	0.24	---
12107	7/8" x 3/4"	1.375	1.375	0.21	---
12108	1" x 1"	1.62	1.50	0.37	---

2200 48IFHD 202 48W 200

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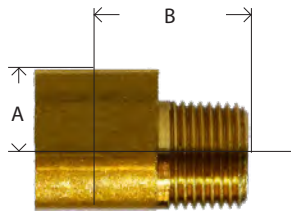
Dimension data can change without notice. Please check when dimensions are critical.

INVERTED FLARE
BRASS FITTINGS

ELBOW

SAE# 040202



491N
491F

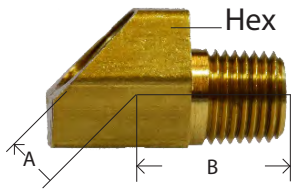
PART #	INV. FLARE X MALE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
12057	1/8" x 1/8"	0.26	0.59	0.03	---
12058	3/16" x 1/8"	0.26	0.61	0.03	---
12059	1/4" x 1/8"	0.33	0.65	0.04	---
12054*	1/4" x 1/8"	0.33	0.65	0.04	---
12060	1/4" x 1/4"	0.28	0.82	0.06	---
12061	5/16" x 1/8"	0.47	0.68	0.05	---
12062	5/16" x 1/4"	0.45	0.85	0.08	---
12082	5/16" x 3/8"	0.47	0.86	0.12	---
12063	3/8" x 1/8"	0.54	0.76	0.14	---
12064	3/8" x 1/4"	0.53	0.92	0.14	---
12065	3/8" x 3/8"	0.50	0.94	0.12	---
12114	1/2" x 1/4"	0.72	1.08	0.14	---
12066	1/2" x 3/8"	0.59	1.03	0.16	---
12067	1/2" x 1/2"	0.66	1.22	0.25	---
12056	5/8" x 3/8"	0.67	1.09	0.20	---
12068	5/8" x 1/2"	0.67	1.29	0.18	---
12069	3/4" x 1/2"	0.80	1.39	0.42	---
12080	7/8" x 3/4"	0.94	1.43	0.48	---
12081	1" x 1"	1.02	1.69	0.60	---

400 2400 249IFHD 402 249IF 49W

*** Restricted pipe end .062**

45° ELBOW

SAE# 040302



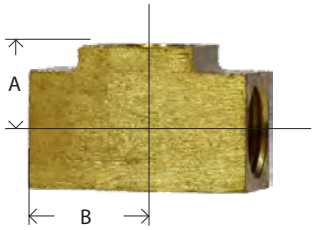
591F
941N

PART #	INV. FLARE X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
12070	1/8" x 1/8"	0.22	0.48	0.50	0.03	---
12072	3/16" x 1/8"	0.25	0.55	0.53	0.02	---
12073	1/4" x 1/8"	0.27	0.58	0.56	0.04	---
12074	5/16" x 1/8"	0.36	0.56	0.62	0.06	---
12075	5/16" x 1/4"	0.23	0.83	0.62	0.06	---
12115	3/8" x 1/8"	0.34	0.87	0.87	0.09	---
12076	3/8" x 1/4"	0.51	0.84	0.78	0.09	---
12077	1/2" x 3/8"	0.38	0.91	0.84	0.11	---
12079	5/8" x 1/2"	0.44	1.00	1.06	0.21	---

154 2352 259IFHD 352 94W

UNION TEE

SAE# 040401



441F
441N

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
12085	1/8"	0.33	0.47	0.04	---
12086	3/16"	0.39	0.55	0.04	---
12087	1/4"	0.42	0.56	0.08	---
12088	5/16"	0.45	0.63	0.09	---
12089	3/8"	0.56	0.74	0.17	---
12090	1/2"	0.67	0.88	0.24	---

244IFHD 702 441

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INVERTED FLARE
BRASS FITTINGS

STEEL PLUG

SAE# 040109 ▪ cored

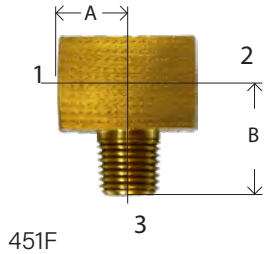
391N
391F

PART # STEEL	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
12091	3/16″	0.53	0.37	0.01	---
12092	1/4″	0.54	0.43	0.02	---
12093	5/16″	0.59	0.50	0.03	---
12094	3/8″	0.66	0.62	0.04	---
Brass					
12095	3/8"	0.66	0.63	0.04	---
12096	1/2"	0.82	0.75	0.07	---
12097	5/8"	0.90	0.87	0.10	---
12098	3/4"	0.95	1.07	0.17	---

106 41IP 131 2131

MALE BRANCH TEE

SAE# 040425



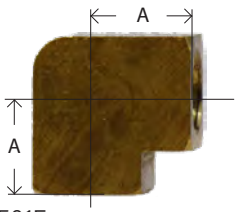
451F
451N

PART #	INV. FLARE X MALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	LIST PRICE
12100	3/16″ x 1/8″	0.41	0.60	0.04	---
12101	1/4″ x 1/8″	0.42	0.64	0.06	---
12102	5/16″ x 1/8″	0.47	0.68	0.07	---
12103	3/8″ x 1/4″	0.58	0.93	0.15	---

145 245IFHD 602 2600 600

FEMALE ELBOW

SAE# 040203



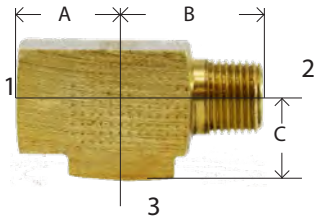
501F
501N

PART #	INV. FLARE X FEMALE NPTF	A	APPROX. WT. LBS.	LIST PRICE
12110	1/4″ x 1/8″	0.55	0.07	---
12111	5/16″ x 1/8″	0.51	0.08	---
12112	3/8″ x 1/4″	0.68	0.10	---

450

MALE RUN TEE

SAE# 040424



51IF
511N

PART #	INV. FLARE X MALE NPTF (1&3)X2	A	B	C	APPROX. WT. LBS.	LIST PRICE
12118	3/16″ x 1/8″	0.53	0.72	0.39	0.06	---
12119	1/4″ x 1/8″	0.56	0.75	0.42	0.08	---
12120	5/16″ x 1/8″	0.62	0.85	0.45	0.10	---
12121	3/8″ x 1/4″	0.75	1.08	0.56	0.14	---

251IFHD 752 550 151

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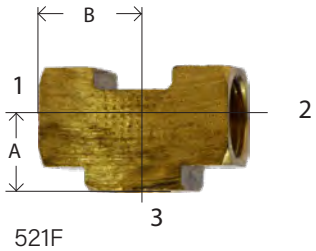
FEMALE BRANCH TEE

SAE# 040427

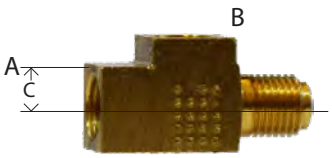


521F
521N

PART #	INV. FLARE X FEMALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	LIST PRICE
12127	3/16″ x 1/8″	0.39	0.55	0.06	---
12129	5/16″ x 1/8″	0.45	0.63	0.12	---
12130	3/8″ x 1/4″	0.56	0.74	0.17	---

252IFHD 652 136

TOWED TRAILER BRAKE TEE

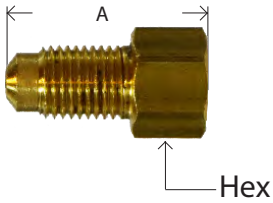


127BT

PART #	A	B	C	REFERENCE #	APPROX. WT. LBS.	LIST PRICE
12147	3/16″ 0.57	3/16″ 0.76	3/16″ 0.42	7900	0.08	---
12145	3/16″ (1/2-20) 0.68	3/16″ (3/8-24) 0.94	3/16″ (1/2-20) 0.47	7906	0.17	---
12148	3/16″ (9/16-18)	3/16″ (3/8-24)	3/16″ (9/16/18)	7933	0.10	---
12144	3/16″ (9/16-20) 0.82	3/16″ (3/8-24) 0.94	3/16″ (9/16-20) 0.47	7905	0.18	---
12146	3/16″ (7/16-24) 0.54	3/16″ (3/8-24) 0.78	1/4″ (7/16-24) 0.42	7914	0.08	---
12150	1/4″ 0.56	3/16″ 0.77	1/4″ 0.43	7901	0.10	---
12149	1/4″ (9/16-18) 0.81	3/16″ (3/8-24) 0.93	1/4″ (9/16-18) 0.50	7904	0.10	---
12151	1/4″ 0.56	1/4″ 0.77	1/4″ 0.43	7898	0.12	---

INVERTED FLARE AUTO FITTINGS

DUAL MASTER CYLINDER ADAPTER

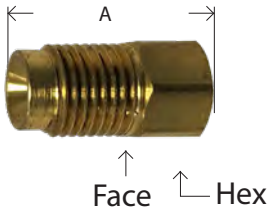


PART #	MALE FLARE X FEMALE INV.	A	HEX	REFERENCE #	APPROX. WT. LBS.	LIST PRICE
12200	3/16″ x 3/16″	1.00	0.50	1441	0.03	---
12202	5/16″ x 3/16″	0.96	0.68	7897	0.07	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE
BRASS FITTINGS

DUAL MASTER CYLINDER ADAPTER



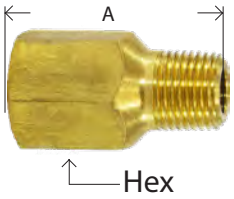
*** Seals on hex face**

48STA
6641N
6011N

PART #	MALE INVERTED THREAD	FEMALE INVERTED THREAD	REF#	LIST PRICE
12206	3/16(9/16-18)	3/16	7911	---
12209	3/16(9/16-18)	3/16(1/2-20)	7913	---
12207	3/16(9/16-20)	3/16	7910	---
12210	3/16	1/4	7828	---
12212	1/4	3/16	7818	---
12214*	7/16-20	1/4	7732	---
12211	1/4(9/16-18)	1/4	7908	---
12215	1/4	5/16	7917	---
12213*	5/16	3/16	7817	---
12216	5/16	3/16	7909	---
12208	5/16	3/16(9/16-18)	7912	---
12218*	5/16	1/4	7727	---
12220	5/16	1/4	7829	---
12222*	5/16	5/16	1074	---
12221	5/16	3/8	7915	---
12224	3/8" NPTF	5/16	7771	---
12217	3/8	5/16	7916	---

47W

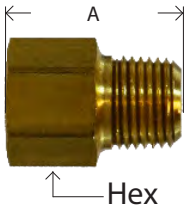
CARBURETOR TO FUEL LINE ADAPTER - FORD



PART #	FEMALE TUBE OD X MALE NPTF	A	HEX	REF #	APPROX. WT. LBS.	LIST PRICE
12230	1/4"(1/2-20) x 1/8"	1.06	0.56	1513	0.04	---

1513

RESTRICTION PIPE ADAPTER
(.0625 ORIFICE)



PART #	SIZE FIP X MIP	A	HEX	REF #	APPROX. WT. LBS.	LIST PRICE
12310	1/8"	0.75	0.50	1512	0.02	---

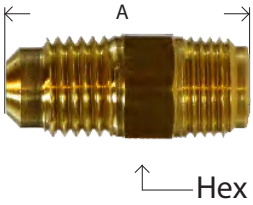
1510

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE
BRASS FITTINGS

SAE FLARE X INVERTED FLARE

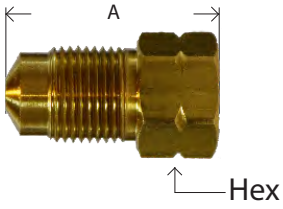


PART #	SAE FLARE X INV. FLARE	A	HEX	REF #	APPROX. WT. LBS.	LIST PRICE
12250	1/4" x 3/16"	1.03	0.43	1518	0.02	---
12252	1/4" x 1/4"	1.03	0.43	1522	0.03	---
12254	3/8" x 5/16"	1.34	0.63	1553	0.08	---
12256	3/8" x 3/8"	1.37	0.63	1563	0.09	---
12257	3/8" x 7/16"	1.40	0.68	1554	0.10	---

4205

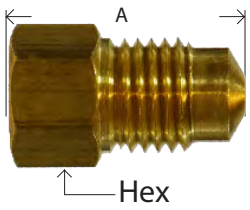
METRIC HYDRAULIC BRAKE FITTINGS

METRIC ADAPTER



PART #	BUBBLE MALE THREAD	TUBE O.D./ FEMALE THREAD	A	HEX	REF #	APPROX. WT. LBS.	LIST PRICE
12335	M10x1.0	3/16"(3/8-24)	1.02	0.50	1442	0.02	---
12326	M11x1.5	3/16"(M10x1.0)	1.06	0.50	7935	0.02	---
12327	M12x1.0	3/16"(M10x1.0)	1.02	0.53	7936	0.04	---
12328	M16x1.5	3/16"(M10x1.0)	1.02	0.56	7937	0.06	---

ADAPTER STANDARD TO METRIC BUBBLE



PART #	FEMALE INV. FLARE SEAT	MALE METRIC BUBBLE FLARE	A	HEX	REF #	APPROX. WT. LBS.	LIST PRICE
12336	3/16" (3/8-24)	11x1.5			7973		---
12337	3/16" (3/8-24)	(3/16") (10x1.25)	1.00	0.50	7970	0.02	---
12339	3/16" (3/8-24)	13x1.5	1.03	0.56	7972	0.04	---
12341	3/16" (3/8-24)	12x1.0	1.02	0.53	7974	0.04	---

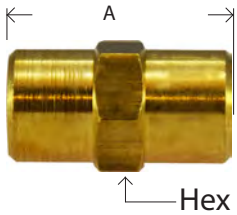
FEMALE X MALE ADAPTERS

PART #	FEMALE STANDARD FLARE SEAT	MALE BUBBLE FLARE	MATERIAL	LIST PRICE
12330	3/8-24 (3/16)	7/16-20	Steel	---

PART #	TUBE OD/ FEMALE THREAD	INVERTED MALE THREAD	REF #	LIST PRICE
12205	3/16 (3/8-24)	M10 x 1.0	1443	---

PART #	FEMALE STANDARD FLARE	INVERTED MALE THREAD	MATERIAL	LIST PRICE
12329	3/8-24 (3/16)	M9 x 1.0	Steel	---

METRIC UNION



PART #	SIZE	A	HEX	REF #	APPROX. WT. LBS.	LIST PRICE
12342	British Brake Lines 3/16 (3/8-24 Bubble)	0.87	0.50	1594	0.03	---
12343	European Brake Lines 3/16"(10.0MM)	1.04	0.56	7975	0.04	---
12344	Japanese Brake Lines 3/16 (M10 x 1.0) Inverted	1.00	0.50	7934A	0.04	---
12345	GM Brake Lines 6mm M12 x 1.0 Bubble	1.11	0.63		0.06	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION FITTINGS

These are NOT Lead Free
See Lead Free Section for Lead Free products

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8
Thread Size-B	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1-18	1-1/8-18
Working Pressure	400	400	300	300	200	200	200	150	100	75

▪ Typical Application
Use with copper, aluminum and thermoplastic tubing. Not recommended for steel tubing. Manufactured for low and medium pressure tubing connection work where excessive vibration or tube movement is not involved. Not recommended for application using gaseous media.

▪Pressure
See table above for working pressures at 73°F.

▪Vibration
Fair resistance - use long nut when greater vibration resistance is needed.

▪Temperature Range
-65°F to +250°F (-53°C to +121°C) range at maximum operating pressures. (Refer to tubing temperature range.)

▪Used With
Aluminum, copper, brass and plastic tubing. Plastic tubing requires insert. Not recommended for steel tubing.

▪ Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

▪ Conformance
Meets specifications and standards of ASA, ASME and SAE.

▪Assembly Instructions
1- Cut tubing to desired length.
2- Slide nut and then sleeve on tube. Threaded end "A" of nut must face toward fitting.
3- Insert tubing into fitting body. Be sure tubing is bottomed on fitting shoulder.
4- Lubricate threads and assemble nut to fitting body.
5- Tighten nut hand tight. From that point, tighten with a wrench the number of turns indicated in the chart below.

Tube Size	Additional Turns from Hand Tight
1/8" thru 1/4"	1-1/4"
5/16"	1-3/4"
3/8" thru 1"	2-1/4"

▪ "L" at the end of a Part# means Light Pattern
-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

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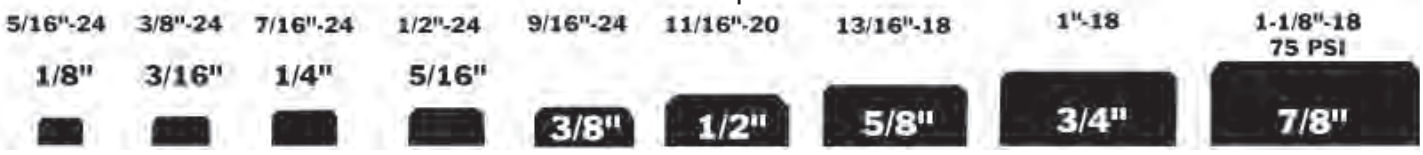
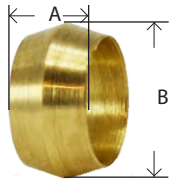
Actual Profile of Compression Threads



COMPRESSION
BRASS FITTINGS

BRASS SLEEVE
• FERRULES

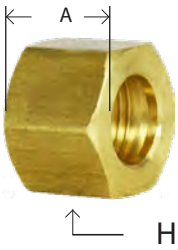


60

SAE# 060115

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
18001	1/8″	0.19	0.19	0.01	---
18002	3/16″	0.22	0.27	0.01	---
18003	1/4″	0.25	0.34	0.01	---
18004	5/16″	0.25	0.41	0.01	---
18005	3/8″	0.25	0.47	0.02	---
18006	7/16″	0.31	0.53	0.02	---
18007	1/2″	0.38	0.59	0.02	---
18008	5/8″	0.38	0.71	0.03	---
18009	3/4″	0.44	0.87	0.03	---
18010	7/8″	0.41	0.99	0.03	---
18011	1"	0.55	1.16	0.03	---

BRASS NUT

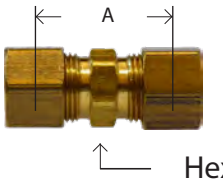


61

SAE# 060110

PART #	SIZE	THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
18033	1/8″	5/16-24	0.38	0.37	0.01	---
18034	3/16″	3/8-24	0.41	0.43	0.01	---
18035L	1/4″	7/16-24	0.44	0.50	0.02	---
18035	1/4″	7/16-24	0.44	0.50	0.02	---
18036	5/16″	1/2-24	0.44	0.56	0.02	---
18037L	3/8″	9/16-24	0.47	0.62	0.04	---
18037	3/8″	9/16-24	0.47	0.62	0.04	---
18038	7/16″	5/8-24	0.50	0.68	0.04	---
18039L	1/2″	11/16-20	0.56	0.75	0.04	---
18039	1/2″	11/16-20	0.62	0.81	0.04	---
18040L	5/8″	13/16-18	0.56	0.87	0.06	---
18040	5/8″	13/16-18	0.62	0.94	0.06	---
18041	3/4″	1-18	0.68	1.12	0.08	---
18042	7/8″	1-1/8 - 18	0.62	1.25	0.10	---
18043	1"		0.94	1.38	0.15	---

UNION



62
262

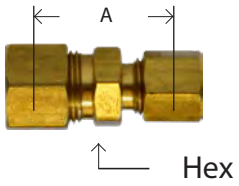
SAE# 060101BA

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
18062	1/8″	0.64	0.31	0.03	---
18063	3/16″	0.75	0.37	0.04	---
18064L	1/4″	0.79	0.43	0.06	---
18064	1/4″	0.81	0.43	0.06	---
18065	5/16″	0.88	0.50	0.06	---
18066L	3/8″	0.96	0.56	0.09	---
18066	3/8″	0.98	0.56	0.10	---
18067	7/16″	1.02	0.62	0.12	---
18068L	1/2″	1.06	0.68	0.16	---
18068	1/2″	1.25	0.68	0.16	---
18069L	5/8″	1.43	0.81	0.24	---
18069	5/8″	1.25	0.81	0.26	---
18070	3/4″	1.41	1.00	0.35	---
18071L	7/8″	1.03	1.12	0.34	---
18071	7/8″	1.00	1.12	0.36	---
18072	1"	1.78	1.38	0.58	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION
BRASS FITTINGS

REDUCING UNION



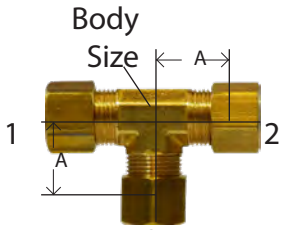
62R

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
18076	1/4" x 1/8"	0.73	0.44	0.04	---
18077	1/4" x 3/16"	0.78	0.44	0.06	---
18078	5/16" x 1/4"	0.81	0.50	0.06	---
18079	3/8" x 1/4"	0.90	0.56	0.10	---
18080	3/8" x 5/16"	0.94	0.56	0.10	---
18081	1/2" x 3/8"	1.03	0.68	0.12	---
18082	5/8" x 3/8"	1.03	0.81	0.15	---
18083	5/8" x 1/2"	1.16	0.81	0.18	---
18085	7/8" x 3/8"	1.18	1.18	0.26	---
18086	7/8" x 1/2"	1.21	1.18	0.24	---
18084	7/8" x 5/8"	1.23	1.18	0.20	---

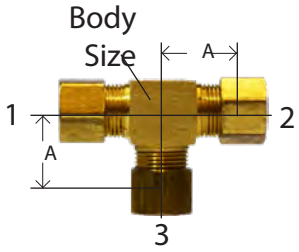
62-R

TEE

SAE# 060401



Forged



Barstock

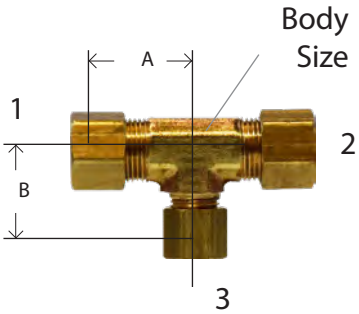
64

PART #	SIZE	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18101	1/8"	0.61	0.37	0.04	---
18101B*	1/8"	0.62	0.33	0.04	---
18102	3/16"	0.59	0.36	0.08	---
18102B*	3/16"	0.60	0.38	0.08	---
18103	1/4"	0.63	0.36	0.10	---
18103B*	1/4"	0.62	0.49	0.10	---
18104	5/16"	0.72	0.50	0.13	---
18104B*	5/16"	0.60	0.50	0.14	---
18105	3/8"	0.75	0.50	0.16	---
18105B*	3/8"	0.73	0.59	0.16	---
18106	1/2"	0.94	0.59	0.22	---
18106B*	1/2"	0.94	0.69	0.24	---
18107	5/8"	1.06	0.69	0.28	---
18108	3/4"	1.22	0.88	0.32	---
18109	7/8"	1.25	0.94	0.34	---

* Barstock

64 **264C**

FORGED REDUCING TEE



64R

PART #	SIZE 1 X 2 X 3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18114	1/4" x 1/4" x 1/8"	0.62	0.59	0.38	0.09	---
18110	1/4" x 1/4" x 3/8"	0.69	0.75	0.50	0.14	---
18111	3/8" x 1/4" x 1/4"	0.75	0.69	0.50	0.12	---
18115	3/8" x 3/8" x 1/4"	0.75	0.69	0.50	0.14	---
18116	1/2" x 1/2" x 1/4"	0.94	0.81	0.59	0.16	---
18117	1/2" x 1/2" x 3/8"	0.94	0.81	0.59	0.24	---
18118	5/8" x 5/8" x 3/8"	1.06	0.94	0.69	0.28	---
18119	5/8" x 5/8" x 1/2"	1.06	1.06	0.69	0.30	---

64-R

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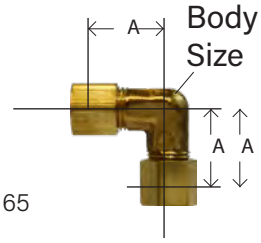
COMPRESSION
BRASS FITTINGS

UNION ELBOW SAE# 060201



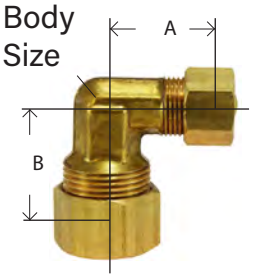
65

Forged Barstock

PART #	SIZE	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18122B*	1/8″	0.62	0.35	0.04	---
18123	3/16″	0.61	0.37	0.06	---
18124	1/4″	0.66	0.38	0.08	---
18125	5/16″	0.69	0.47	0.09	---
18126	3/8″	0.72	0.43	0.12	---
18127	1/2″	0.94	0.59	0.19	---
18128	5/8″	1.06	0.72	0.26	---
18129	3/4″	1.19	0.94	0.48	---
18130	7/8″	1.25	0.94	0.44	---

65 **BSE2** 165C **265C**

REDUCING ELBOW - FORGED

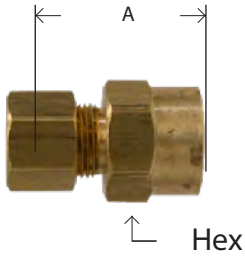


65R

PART #	SIZE	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18135	3/8″ x 1/4″	0.69	0.75	0.47	0.12	---
18136	1/2″ x 3/8″	0.88	0.94	0.59	0.15	---
18137	5/8″ x 3/8″	0.88	0.97	0.56	0.18	---

65-R

FEMALE ADAPTER
SAE# 060103



66

PART #	COMP. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
18142	1/8″ x 1/8″	0.75	0.56	0.02	---
18143	3/16″ x 1/8″	0.78	0.56	0.04	---
18144	3/16″ x 1/4″	0.96	0.68	0.04	---
18145L	1/4″ x 1/8″	0.84	0.50	0.05	---
18145	1/4″ x 1/8″	0.78	0.56	0.05	---
18146L	1/4″ x 1/4″	0.88	0.62	0.09	---
18146	1/4″ x 1/4″	1.03	0.68	0.09	---
18148	1/4″ x 1/2″	1.02	0.87	0.12	---
18149	5/16″ x 1/8″	0.81	0.56	0.05	---
18150	5/16″ x 1/4″	0.91	0.62	0.06	---
18152	3/8″ x 1/8″	0.88	0.56	0.06	---
18153L	3/8″ x 1/4″	0.97	0.62	0.08	---
18153	3/8″ x 1/4″	1.06	0.68	0.08	---
18154L	3/8″ x 3/8″	1.03	0.75	0.08	---
18154	3/8″ x 3/8″	1.06	0.81	0.10	---
18155	3/8″ x 1/2″	1.12	1.00	0.08	---
18156	3/8″ x 3/4″	1.19	1.16	0.14	---
18157	1/2″ x 1/4″	1.09	0.68	0.10	---
18158L	1/2″ x 3/8″	0.94	0.81	0.12	---
18158	1/2″ x 3/8″	1.12	0.81	0.12	---
18159L	1/2″ x 1/2″	1.19	1.00	0.12	---
18159	1/2″ x 1/2″	1.31	1.00	0.12	---
18160	1/2″ x 3/4″	1.25	1.16	0.18	---
18162L	5/8″ x 1/2″	1.20	0.94	0.18	---
18162	5/8″ x 1/2″	1.38	1.00	0.18	---
18163	5/8″ x 3/4″	1.20	1.12	0.22	---
18164	3/4″ x 1/2″	1.25	1.06	0.26	---
18165	3/4″ x 3/4″	1.28	1.19	0.28	---
18167	7/8″ x 1/2″	1.28	1.19	0.32	---
18166	7/8″ x 3/4″	1.31	1.12	0.34	---

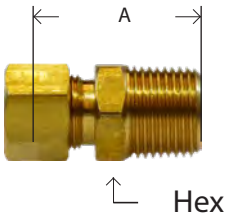
▪ More sizes available

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION
BRASS FITTINGS

MALE ADAPTER

SAE# 060102



68

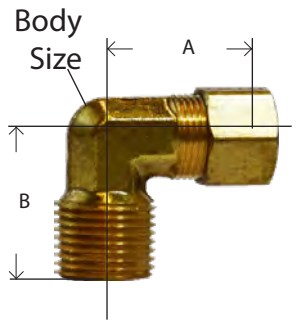
PART #	COMP. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
18175	1/8" x 1/16"	0.78	0.37	0.02	---
18176	1/8" x 1/8"	0.78	0.43	0.04	---
18177	3/16" x 1/8"	0.84	0.43	0.04	---
18178	3/16" x 1/4"	0.94	0.56	0.06	---
18179L	1/4" x 1/8"	0.88	0.56	0.04	---
18179	1/4" x 1/8"	0.88	0.43	0.04	---
18180L	1/4" x 1/4"	0.94	0.56	0.05	---
18180	1/4" x 1/4"	1.06	0.56	0.06	---
18181	1/4" x 3/8"	1.03	0.68	0.08	---
18182	1/4" x 1/2"	1.09	0.81	0.10	---
18183	5/16" x 1/8"	0.91	0.50	0.05	---
18184L	5/16" x 1/4"	1.01	0.56	0.06	---
18184	5/16" x 1/4"	1.09	0.56	0.06	---
18185	5/16" x 3/8"	1.06	0.68	0.07	---
18186	5/16" x 1/2"	1.14	0.87	0.10	---
18187L	3/8" x 1/8"	0.94	0.56	0.06	---
18187	3/8" x 1/8"	0.97	0.56	0.06	---
18188L	3/8" x 1/4"	1.03	0.56	0.06	---
18188	3/8" x 1/4"	1.16	0.56	0.07	---
18189L	3/8" x 3/8"	1.09	0.68	0.08	---
18189	3/8" x 3/8"	1.14	0.69	0.08	---
18190L	3/8" x 1/2"	1.19	0.88	0.12	---
18190	3/8" x 1/2"	1.34	0.87	0.13	---
18191	3/8" x 3/4"	1.29	1.06	0.16	---
18192	7/16" x 1/4"	1.06	0.62	0.10	---
18204	7/16" x 3/8"	1.10	0.68	0.12	---
18193L	1/2" x 1/4"	1.09	0.69	0.11	---
18193	1/2" x 1/4"	1.22	0.68	0.11	---
18194L	1/2" x 3/8"	1.16	0.68	0.12	---
18194	1/2" x 3/8"	1.16	0.69	0.12	---
18195L	1/2" x 1/2"	1.09	0.81	0.12	---
18195	1/2" x 1/2"	1.41	0.87	0.19	---
18196	1/2" x 3/4"	1.38	1.06	0.22	---
18216	5/8" x 1/4"	1.21	0.87	0.22	---
18197	5/8" x 3/8"	1.22	0.87	0.24	---
18198	5/8" x 1/2"	1.12	0.81	0.24	---
18199	5/8" x 3/4"	1.31	1.06	0.26	---
18200	3/4" x 1/2"	1.44	1.00	0.26	---
18201	3/4" x 3/4"	1.50	1.06	0.26	---
18202	7/8" x 1/2"	1.18	1.12	0.26	---
18203	7/8" x 3/4"	1.22	1.12	0.28	---
18205	7/8" x 1"	1.67	1.37	0.32	---
18206	1" x 3/4"	1.95	1.37	0.44	---
18207	1" x 1"	2.00	1.38	0.48	---

68

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MALE ELBOW

SAE# 060202



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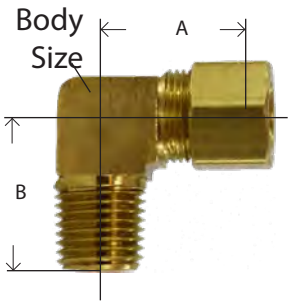


Barstock

69

PART #	COMP. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18219	1/8" x 1/16"	0.59	0.73	0.34	0.02	---
18220	1/8" x 1/8"	0.59	0.75	0.34	0.02	---
18220B*	1/8" x 1/8"	0.60	0.67	0.43	0.04	---
18221	3/16" x 1/8"	0.63	0.72	0.34	0.04	---
18221B*	3/16" x 1/8"	0.62	0.69	0.43	0.06	---
18223	3/16" x 1/4"	0.60	0.81	0.39	0.05	---
18223B*	3/16" x 1/4"	0.65	0.85	0.41	0.08	---
18224	1/4" x 1/8"	0.60	0.75	0.37	0.06	---
18224B*	1/4" x 1/8"	0.62	0.75	0.43	0.06	---
18225	1/4" x 1/4"	0.65	0.94	0.36	0.08	---
18225B*	1/4" x 1/4"	0.61	0.81	0.56	0.08	---
18226	1/4" x 3/8"	0.75	0.91	0.47	0.08	---
18227	1/4" x 1/2"	0.81	1.13	0.56	0.12	---
18228	5/16" x 1/8"	0.66	0.75	0.47	0.06	---
18228B*	5/16" x 1/8"	0.62	0.75	0.42	0.06	---
18229	5/16" x 1/4"	0.66	0.81	0.47	0.07	---
18229B*	5/16" x 1/4"	0.69	0.84	0.57	0.08	---
18230	5/16" x 3/8"	0.75	0.91	0.47	0.10	---
18231	5/16" x 1/2"	0.84	1.12	0.56	0.12	---
18232	3/8" x 1/8"	0.72	0.66	0.39	0.06	---
18232B*	3/8" x 1/8"	0.69	0.69	0.57	0.06	---
18233	3/8" x 1/4"	0.75	0.82	0.46	0.08	---
18233B*	3/8" x 1/4"	0.75	0.94	0.57	0.08	---
18234	3/8" x 3/8"	0.81	0.94	0.46	0.10	---
18234B*	3/8" x 3/8"	0.71	0.83	0.69	0.10	---
18235	3/8" x 1/2"	0.87	1.12	0.56	0.14	---
18235B*	3/8" x 1/2"	0.88	1.16	0.94	0.14	---
18248	3/8" x 3/4"	1.03	1.19	0.81	0.18	---
18248B*	3/8" x 3/4"	1.03	1.20	0.86	0.16	---
18247	7/16" x 1/4"	0.84	1.00	0.56	0.14	---
18236	1/2" x 1/4"	0.88	0.97	0.56	0.14	---
18236B*	1/2" x 1/4"	0.85	0.94	0.07	0.17	---
18237	1/2" x 3/8"	0.88	1.03	0.56	0.19	---
18237B*	1/2" x 3/8"	0.94	1.12	0.70	0.19	---
18238	1/2" x 1/2"	0.94	1.13	0.59	0.17	---
18238B*	1/2" x 1/2"	0.94	1.31	0.86	0.17	---
18239	1/2" x 3/4"	1.16	1.25	0.81	0.18	---
18240	5/8" x 3/8"	1.06	1.12	0.68	0.18	---
18241	5/8" x 1/2"	1.06	1.16	0.68	0.20	---
18241B*	5/8" x 1/2"	1.06	1.31	0.86	0.20	---
18242	5/8" x 3/4"	1.16	1.31	0.81	0.24	---
18243	3/4" x 1/2"	1.19	1.31	0.94	0.26	---
18245	3/4" x 3/4"	1.19	1.38	0.94	0.30	---
18246	7/8" x 3/4"	1.25	1.38	0.94	0.35	---

* Barstock

69 **269C** BSE1 **169C**

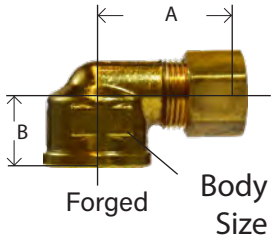
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

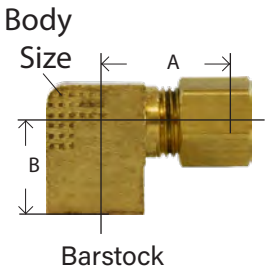
Dimension data can change without notice. Please check when dimensions are critical.

COMPRESSION
BRASS FITTINGS

FEMALE ELBOW

SAE# 060203





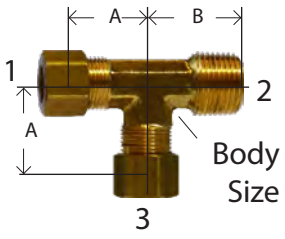
70

PART #	COMP. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18251	1/8" x 1/8"	0.69	0.56	0.56	0.04	---
18251B*	1/8" x 1/8"	0.69	0.60	0.57	0.06	---
18252	3/16" x 1/8"	0.69	0.47	0.56	0.04	---
18252B*	3/16" x 1/8"	0.60	0.60	0.58	0.07	---
18253	1/4" x 1/8"	0.69	0.47	0.56	0.06	---
18253B*	1/4" x 1/8"	0.69	0.56	0.56	0.06	---
18254	1/4" x 1/4"	0.75	0.50	0.72	0.08	---
18254B*	1/4" x 1/4"	0.72	0.85	0.68	0.13	---
18267	1/4" x 3/8"	0.81	0.58	0.81	0.08	---
18268	1/4" x 1/2"	0.89	0.66	1.00	0.10	---
18255	5/16" x 1/8"	0.72	0.84	0.47	0.08	---
18256	5/16" x 1/4"	0.78	0.50	0.72	0.09	---
18257	3/8" x 1/8"	0.75	0.84	0.47	0.10	---
18258	3/8" x 1/4"	0.84	0.59	0.75	0.10	---
18259	3/8" x 3/8"	0.88	0.58	0.81	0.12	---
18260	3/8" x 1/2"	0.97	0.66	1.00	0.14	---
18250	3/8" x 3/4"	1.09	0.72	1.25	0.18	---
18261	1/2" x 1/4"	1.06	0.70	0.88	0.18	---
18262	1/2" x 3/8"	1.00	0.70	0.88	0.16	---
18263	1/2" x 1/2"	1.03	0.72	1.00	0.20	---
18270	1/2" x 3/4"	1.16	0.72	1.25	0.23	---
18269	5/8" x 3/8"	1.09	0.77	1.00	0.20	---
18264	5/8" x 1/2"	1.09	0.77	1.00	0.22	---
18265	5/8" x 3/4"	1.22	0.77	1.25	0.24	---
18266	3/4" x 1/2"	1.25	1.25	0.94	0.28	---

* Barstock

70 **270C** BSE3 **170C**

FORGED MALE RUN TEE



71

PART #	COMP. X MALE NPTF (1&3) X 2	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18272	1/8" x 1/8"	0.63	0.69	0.36	0.06	---
18273	3/16" x 1/8"	0.63	0.69	0.36	0.07	---
18273B*	3/16" x 1/8"	0.63	0.69	0.36	0.06	---
18274B*	1/4" x 1/8"	0.63	0.75	0.36	0.07	---
18274	1/4" x 1/8"	0.63	0.75	0.36	0.08	---
18275	1/4" x 1/4"	0.69	0.88	0.44	0.10	---
18276	5/16" x 1/8"	0.72	0.75	0.50	0.10	---
18277	5/16" x 1/4"	0.75	0.88	0.44	0.10	---
18278	3/8" x 1/8"	0.75	0.75	0.50	0.14	---
18279	3/8" x 1/4"	0.79	0.87	0.44	0.18	---
18280	3/8" x 3/8"	0.88	1.00	0.47	0.20	---
18281	1/2" x 3/8"	0.94	1.09	0.59	0.24	---
18282	1/2" x 1/2"	0.97	1.19	0.69	0.26	---
18283	5/8" x 1/2"	1.06	1.31	0.69	0.28	---
18284	3/4" x 1/2"	1.22	1.34	0.88	0.30	---

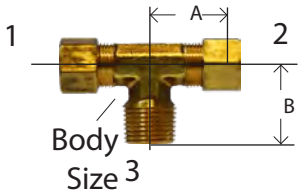
* Barstock

71 **171C** BST3

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MALE BRANCH TEE

SAE# 060425



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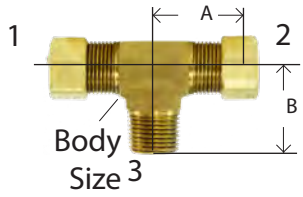


Barstock

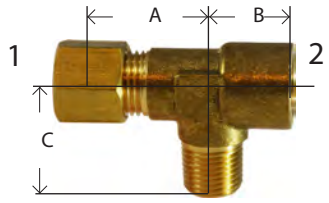
72

PART #	COMP. X MALE NPTF (1&2) X 3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18290	3/16" x 1/8"	0.63	0.69	0.36	0.08	---
18291	1/4" x 1/8"	0.62	0.75	0.36	0.10	---
18291B*	1/4" x 1/8"	0.64	0.73	0.45	0.10	---
18292	1/4" x 1/4"	0.69	0.86	0.44	0.10	---
18293	5/16" x 1/8"	0.72	0.75	0.50	0.11	---
18294	5/16" x 1/4"	0.75	0.88	0.44	0.12	---
18295	3/8" x 1/8"	0.75	0.75	0.50	0.14	---
18296	3/8" x 1/4"	0.78	0.88	0.44	0.16	---
18297	3/8" x 3/8"	0.78	0.97	0.47	0.18	---
18298	3/8" x 1/2"	0.88	1.22	0.69	0.20	---
18304	1/2" x 1/4"	0.94	0.97	0.59	0.22	---
18299B*	1/2" x 3/8"	0.96	1.09	0.70	0.24	---
18299	1/2" x 3/8"	0.94	1.12	0.59	0.24	---
18300	1/2" x 1/2"	0.97	1.19	0.69	0.30	---
18301	5/8" x 1/2"	1.06	1.31	0.69	0.32	---
18302	3/4" x 1/2"	1.22	1.34	0.88	0.50	---
18303	3/4" x 3/4"	1.25	1.50	0.88	0.54	---

* Barstock

72 **BST1** 172C

FORGED TEE

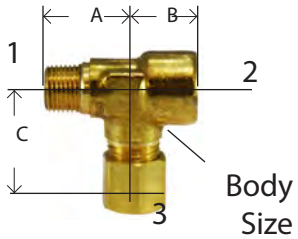


75

PART #	COMP. X FEMALE NPTF X MALE NPTF 1X(2&3)	A	B	C	APPROX. WT. LBS.	LIST PRICE
18307	1/4" x 1/8"	0.72	0.53	0.72	0.20	---

BST3

ADAPTER TEE



76

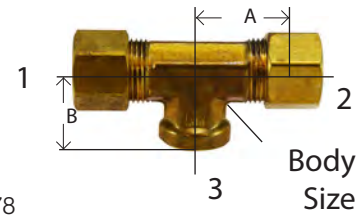
PART #	MALE NPTF X FEMALE NPTF X COMP. (1&2)X3	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18314	1/8" x 1/4"	0.72	0.53	0.72	0.47	0.08	---
18316	1/4" x 3/8"	0.84	0.97	0.81	0.47	0.10	---

76 **176C**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION
BRASS FITTINGS

FEMALE BRANCH FORGED TEE



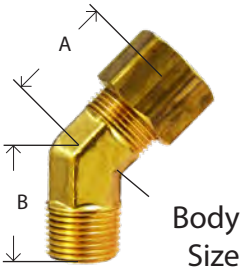
78

PART #	COMP. X FEMALE NPTF (1&2)X3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18321	1/4" x 1/8"	0.78	0.75	0.45	0.10	---
18328	1/4" x 1/4"	0.78	0.75	0.44	0.12	---
18325	3/8" x 1/8"	0.75	0.63	0.50	0.12	---
18322	3/8" x 1/4"	0.81	0.97	0.47	0.14	---
18323	3/8" x 3/8"	0.97	0.69	1.05	0.16	---
18326	1/2" x 1/8"	0.94	0.75	0.59	0.20	---
18324	1/2" x 3/8"	1.00	0.72	0.88	0.22	---
18327	5/8" x 1/8"	1.06	0.81	0.69	0.26	---

78 **BST4** 77 **177C** 2908

45° ELBOW

SAE# 060302

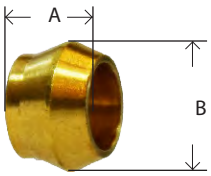


6945

PART #	COMP. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18329	3/16" x 1/8"	0.40	0.63	0.41	0.04	---
18330	1/4" x 1/8"	0.40	0.61	0.41	0.04	---
18336	1/4" x 1/4"	0.59	0.84	0.53	0.06	---
18331	5/16" x 1/8"	0.59	0.65	0.53	0.06	---
18332	5/16" x 1/4"	0.59	0.83	0.53	0.08	---
18333	3/8" x 1/4"	0.62	0.83	0.53	0.08	---
18338	3/8" x 3/8"	0.75	0.95	0.59	0.10	---
18334	1/2" x 3/8"	0.75	0.88	0.59	0.14	---
18339	1/2" x 1/2"	0.94	1.14	0.75	0.14	---
18335	5/8" x 1/2"	0.78	1.14	0.78	0.14	---

6945 **45BSE1** 74 **179C** 273 **77**

COMPRESSION PLUG

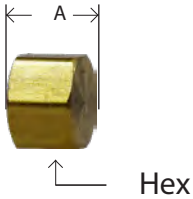


60CP
60CSP

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
18028	1/4"	0.30	0.34	0.01	---
18029	3/8"	0.31	0.47	0.04	---
18032	5/16"	0.40	0.40	0.01	---
18030	1/2"	0.34	0.59	0.06	---
18031	5/8"	0.45	0.72	0.04	---

CSP

CAP



61CC
61CX

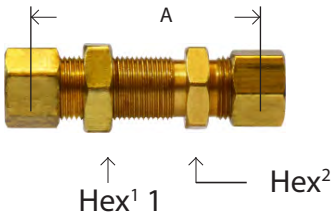
PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
18047	1/4"	0.44	0.50	0.02	---
18048	3/8"	0.40	0.62	0.04	---
18049	1/2"	0.48	0.75	0.06	---
18050	5/8"	0.56	0.94	0.10	---

61-CC **N5CT**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BULKHEAD UNIONS

SAE# 060101

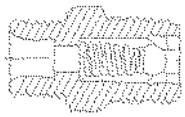


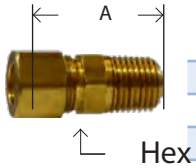
62BH

PART #	SIZE	A	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
18088	1/4″	1.58	0.56	0.56	0.10	---
18090	3/8″	1.76	0.68	0.68	0.14	---
18093	5/8"	2.01	1.000	0.94	0.32	---

62BH **75** 274

BALL CHECK VALVE - MIN. WORKING PRESSURE 3 PSI.



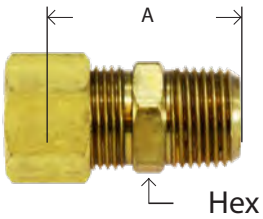


63

PART #	TUBE OD X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
18092	1/8″ x 1/8″	0.78	0.44	0.04	---
18094	1/4″ x 1/8″	0.88	0.44	0.04	---
18096	3/8″ x 1/4″	1.16	0.56	0.08	---

63 **263** 63A

TANK ADAPTER DRILLED THRU (NO STOP)



68T

PART #	COMP. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
18208	1/4″ x 1/8″	0.88	0.43	0.04	---
18209	1/4″ x 1/4″	0.99	0.56	0.05	---
18210	3/8″ x 1/4″	1.16	0.56	0.05	---
18211	3/8″ x 3/8″	1.09	0.68	0.08	---
18212	3/8″ x 1/2″	1.19	0.87	0.10	---
18213	1/2″ x 3/8″	1.22	0.68	0.12	---
18214	1/2″ x 1/2″	1.09	0.81	0.14	---
18215	5/8″ x 1/2″	1.12	0.81	0.18	---

68-T **682C** 80F

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

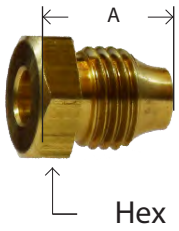
DOUBLE COMPRESSION
BRASS FITTINGS

DOUBLE COMPRESSION THREADED SLEEVE FITTINGS

- Use with aluminum and copper tubing or plastic tubing with internal tube support. Not recommended for steel tubing.
- Easy to assemble, no flaring, two piece construction.
- For use on oil, air, water and grease lubrication systems.
- When design makes a dimension critical, contact us for information.

Tube OD	1/8	3/16	1/4	5/16	3/8
Thread	5/16-24	3/8-24	7/16-24	1/2-20	9/16-20
Working Pressure	500	500	500	250	250

NUT

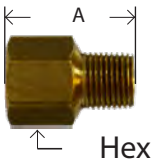


181

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
16001	1/8"	0.50	0.37	0.02	---
16002	3/16"	0.53	0.43	0.02	---
16003	1/4"	0.56	0.50	0.04	---
16004	5/16"	0.61	0.56	0.04	---
16005	3/8"	0.61	0.62	0.04	---
16006	1/2"	0.90	0.69	0.05	---
16007	5/8"	1.07	0.88	0.06	---

181 **6100** 11

MALE ADAPTER



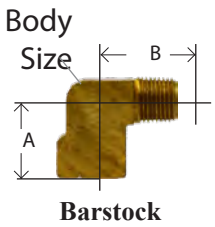
188
26200

PART #	THRD SLEEVE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
16117	1/8" x *	0.62	0.43	0.02	---
16118	1/8" x 1/8"	0.62	0.43	0.02	---
16119	3/16" x 1/8"	0.69	0.43	0.02	---
16121	1/4" x 1/8"	0.75	0.50	0.04	---
16120	1/4" x 1/4"	1.06	0.56	0.05	---
16122	5/16" x 1/8"	0.89	0.56	0.04	---
16125	5/16" x 1/4"	1.09	0.56	0.05	---
16123	3/8" x 1/4"	0.84	0.62	0.06	---

* 1/4 - 28 Male Thread Tapered.

188 **6200** 12

90° ELBOW



189
26400

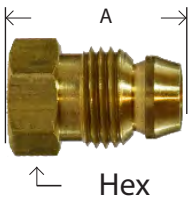
PART #	THRD SLEEVE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
16127	1/8" x *	0.50	0.52	0.41	0.02	---
16128	1/8" x 1/8"	0.50	0.66	0.43	0.02	---
16129	3/16" x 1/8"	0.56	0.62	0.44	0.02	---
16130	1/4" x 1/8"	0.52	0.62	0.50	0.04	---
16131	5/16" x 1/8"	0.75	0.81	0.56	0.09	---
16133	3/8" x 1/4"	0.88	1.00	0.56	0.13	---

* 1/4 - 28 Male Thread Tapered

189 **6400** 15

BREAK-AWAY NUT

- 1-Piece Fiting



181SP
21604

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
16009	1/8"	0.66	0.31	0.02	---
16090	3/16"	0.57	0.37	0.02	---
16010	1/4"	0.62	0.43	0.02	---
16011	5/16"	0.77	0.50	0.04	---
16012	3/8"	0.84	0.56	0.04	---

181-BA **21604** 99LB **81LB**

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SPLIT SLEEVE FITTINGS
BRASS FITTINGS

BRASS SPLIT SLEEVE D.O.T. FITTINGS (5/32 O.D.)

TRANSMISSION BRASS FITTINGS

APPLICATIONS: Used with SAE J844 Type A nylon tube in pressure protected air transmission applications.
TECHNICAL DATA: Maximum working pressure up to 150 PSI. Fittings will withstand variations from -40°F to +220°F (-40°C to + 104°C)

Ideally suited for use in passive protected air transmission applications. A specially designed slotted sleeve helps eliminate notch stress related to over torque. **25 prefix parts do not have a stake, use 38 part # with white sealant only**.

COLLET

PART #	TUBE O.D.	LIST PRICE
38711	5/32"	---
25001	1/8"	---
25002	3/16"	---
25003	1/4"	---

1460 **90791** 280 **90946**

NUT

PART #	TUBE O.D.	LIST PRICE
38732	5/32"	---
25033	1/8"	---

1461 **90790** 281 **90885**

DOUBLE END UNION

PART #	TUBE O.D.	LIST PRICE
38761	5/32"	---
25062	1/8"	---
25064	1/4"	----

1462 **90792** 283 **90891**

CONNECTOR WITH NUT AND SLEEVE

PART #	TUBE O.D.	PIPE THREAD	LIST PRICE
38769	5/32"	1/16"	---
38770	5/32"	1/8"	---
25175	1/8"	1/16"	---
25176	1/8"	1/8"	---
25177	3/16"	1/8"	----
25179	1/4"	1/8"	----

▪ Shipped with nut and split sleeve, picture shows insert 1468 **90794** 282 **90985**

ELBOW

PART #	TUBE O.D.	PIPE THREAD	LIST PRICE
38715	5/32"	1/16"	---
38718	5/32"	1/8"	---
25220	1/8"	1/8"	---
25219	1/8"	1/16"	---
25221	3/16"	1/8"	---
25224	1/4"	1/8"	---

284

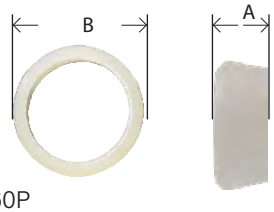
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPECIAL COMPRESSION ASSEMBLIES
BRASS FITTINGS

To purchase special compression assemblies, delete the 18 prefix on part# and add the prefix of the type of special assembly you desire. Pricing and availability upon request.

22 - Plastic sleeve (inserts should be ordered seperately)
24 - Long nut compression
26 - Captive sleeve (parts listed on following pages)
27 - Self align sleeve

DELRIN SLEEVE



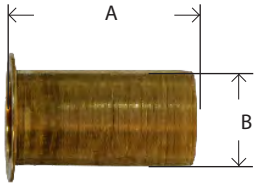
60P

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
18015	1/4″	0.19	0.37	0.01	---
18016	5/16″	0.19	0.43	0.01	---
18017	3/8″	0.19	0.50	0.02	---
18018	1/2″	0.25	0.63	0.02	---
18019	5/8″	0.22	0.74	0.02	---

60-P

BRASS INSERT

• SLEEVE

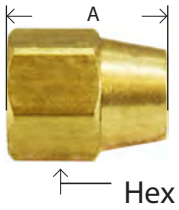


61P
63P

PART #	SIZE	A	B	APPROX. WT. LBS.	WALL	LIST PRICE
22008	1/8″	0.46	0.080	0.01	.016	---
22008A	1/8"	0.465	0.073	0.01	.023	---
22009	3/16″	0.45	0.135	0.01	.025	---
22009A	3/16″	0.52	0.095	0.01	.040	---
22010	1/4″	0.50	0.163	0.02	.04	---
22010A	1/4″	0.59	0.125	0.02	.04	---
22010B	1/4″	0.53	0.172	0.02	.03	---
22011A	5/16″	0.50	0.232	0.02	.04	---
22011	5/16″	0.53	0.187	0.02	.062	---
22012	3/8″	0.56	0.250	0.03	.062	---
22013	1/2″	0.72	0.370	0.03	.062	---
22014	5/8″	0.72	0.483	0.03	.062	---
22015	3/4″	1.03	0.563	0.03	.03	---

63-BI **60AE** 2030 **63PT**

LONG NUT COMPRESSION - CAN BE ASSEMBLED ON ANY COMPRESSION FITTING



161

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
10013	1/8"	0.50	0.37	0.01	---
24002	3/16"	0.62	0.43	0.01	---
24003	1/4″	0.75	0.50	0.02	---
24004	5/16″	0.84	0.56	0.02	---
24005	3/8″	0.97	0.62	0.04	---
24006	1/2″	1.06	0.81	0.06	---
24007	5/8"	1.19	0.94	0.11	---

161

SELF-ALIGN SLEEVES

PART #	SIZE	LIST PRICE
27001	1/8"	---
27002	3/16"	---
27003	1/4"	---

860 **601**

PART #	SIZE	LIST PRICE
27005	3/8"	---
27006	1/2"	---

860

▪ More sizes available

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CAPTIVE SLEEVE COMPRESSION
BRASS FITTINGS

CAPTIVE SLEEVE NUT

61SA
61CS

PART #	SIZE	LIST PRICE
26001	1/8″	---
26002	3/16″	---
26003	1/4″	---
26004	5/16″	---
26005	3/8″	---
26007	1/2″	---

CS61 **61CA**

UNION

62SA

PART #	SIZE	LIST PRICE
26062	1/8″	---
26063	3/16″	---
26064	1/4″	---
26065	5/16″	---
26066	3/8″	---
26079	3/8″ x 1/4″	---
26068	1/2"	---

CS62 **62CA**

TEE

64SA

PART #	SIZE	LIST PRICE
26102	3/16″	---
26103	1/4″	---

CS64 **164CA**

FEMALE ADAPTER

66SA

PART #	COMP. X FEMALE NPTF	LIST PRICE
26142	1/8" x 1/8"	---
26145	1/4″ x 1/8″	---
26146	1/4" x 1/4"	---
26153	3/8″ x 1/4″	---

CS66 **66CA**

MALE ADAPTER

68SA

PART #	COMP. X MALE NPTF	LIST PRICE
26175	1/8" x 1/16"	---
26176	1/8″ x 1/8″	---
26177	3/16″ x 1/8″	---
26178	3/16" x 1/4"	
26179	1/4″ x 1/8″	---
26180	1/4″ x 1/4″	---
26180L	1/4" x 1/4"	---
26181	1/4″ x 3/8″	---
26182	1/4" x 1/2"	---
26183	5/16″ x 1/8″	---
26184	5/16″ x 1/4″	---
26188	3/8″ x 1/4″	---
26189	3/8″ x 3/8″	---
26190	3/8″ x 1/2″	---
26193	1/2" x 1/4"	
26194	1/2" x 3/8"	---
26195	1/2″ x 1/2″	---
26198	5/8" x 1/2"	

CS68 **68CA**

MALE ELBOW

69SA

PART #	COMP. X MALE NPTF	LIST PRICE
26220	1/8″ x 1/8″	---
26220B	1/8″ x 1/8″	---
26221B	3/16" x 1/8"	---
26221	3/16″ x 1/8″	---
26224B	1/4" x 1/8"	---
26224	1/4″ x 1/8″	---
26223	3/16" x 1/4"	
26225	1/4″ x 1/4″	---
26225B	1/4″ x 1/4″	---
26226	1/4" x 3/8"	
26228	5/16″ x 1/8″	---
26229	5/16″ x 1/4″	---
26232	3/8" x 1/8"	---
26233	3/8″ x 1/4″	---
26233B	3/8" x 1/4"	---
26234	3/8" x 3/8"	---
26235	3/8" x 1/2"	----
26237	1/2″ x 3/8″	---
26238	1/2″ x 1/2″	---

CS69 **169CA**

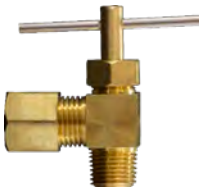
MALE BRANCH TEE

72SA

PART #	COMP. X MALE NPTF (1&2) X 3	LIST PRICE
26291	1/4″ x 1/8″	---
26292	1/4″ x 1/4″	---
26293	5/16″ x 1/8″	---
26296	3/8″ x 1/4″	---

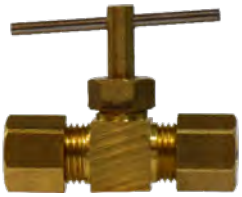
CS72 **172CA**

CAPTIVE SLEEVE X MALE PIPE ANGLE NEEDLE VALVE



PART #	COMP X MALE PIPE	LIST PRICE
26011	1/4″ x 1/8″	---
26014	5/16″ x 1/4″	---

CAPTIVE SLEEVE X CAPTIVE SLEEVE NEEDLE VALVE



PART #	COMP X COMP	LIST PRICE
26021	1/4″	---
26023	3/8″	---

Interchangeable with compress-align fittings.

These are NOT Lead Free
Lead Free products available upon request

- More sizes available
- Lead Free - add LF to part #

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

Flareless FITTINGS

Flareless Brass Tube Fittings are Interchangeable with Poly-Flo®, Poly-Tite® and Poly-Line® and Poly-Fit®

Built-in SS
Tube Support

Tube O.D.	1/8	3/16	1/4	5/16	3/8	1/2
Thread Size-B	5/16-24	3/8-24	3/8-24	7/16-24	1/2-24	11/16-20

▪Typical Application
Pneumatic instrumentation circuits, lubricant and cooling lines.

▪Working Pressure and Temperature Ranges
Up to 150 PSI from 0°F to + 150°F with thermoplastic tubing. Up to 300 PSI from 0°F to + 175°F with soft metal tubing.

▪Maximum allowable metal tube wall thickness for use with Poly-Tite fittings:
1/8", 3/16" O.D. --no limitation,
1/4" O.D.--.035 5/16", 3/8",1/2" O.D.--.049

▪Vibration
Excellent Resistance.

▪Temperature Range
Depends on tubing used. -65°F to +250°F (-53°C to +121°C) with brass sleeve, -40°F to +150°F (-40°C to +66°C) with plastic sleeve. (Refer to tubing temperature range.)

▪Used With
Aluminum & copper tubing. Hard plastic tubing requires brass sleeve. Not recommended for steel tubing.

▪ Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

▪Advantages
No flaring of tubing required. Easy installation, captive sleeve, pre-assembled for installation and can be reassembled. Nuts rotate around the sleeve during tightening, preventing twisting of tubing.

▪Assembly Instructions
1- Cut tubing to desired length.
2- Slide nut/sleeve assembly on tube. Threaded end "A" of nut must face toward fitting.
3- Bottom tubing into fitting.
4- Plastic sleeve - Tighten nut hand tight.
Brass Sleeve - Tighten nut hand tight, then an additional 3/4 turn.

* Note: 1/8 and 3/16 sizes have brass sleeves

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

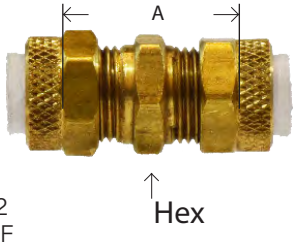
NUT AND PLASTIC SLEEVE ASSEMBLY

MP61P
261PF

PART #	TUBE O.D.	THREAD	A	HEX (DIA.)	APPROX. WT. LBS.	LIST PRICE
20211	1/4″	3/8-24	0.34	0.43	0.02	---
20212	5/16″	7/16-24	0.45	0.50	0.02	---
20213	3/8″	1/2-24	0.38	0.56	0.04	---
20214	1/2″	11/16-20	0.42	0.81	0.04	---

261PF **1261** 61PN

UNION

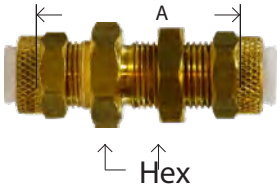


MP62
262PF

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
20240	1/8″	0.66	0.31	0.02	---
20241	3/16″	0.75	0.37	0.04	---
20242	1/4″	0.69	0.37	0.04	---
20243	5/16″	0.69	0.44	0.04	---
20244	3/8″	0.72	0.50	0.10	---
20200	3/8″ x 1/4″	0.72	0.50	0.08	---
20245	1/2″	0.84	0.69	0.14	---

262PF **1262** 62P **262P**

BULKHEAD UNION

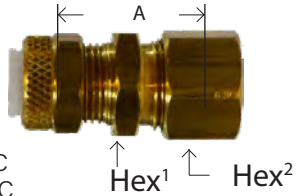


MP82
282PF

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
20337	1/4″	1.25	0.56	0.06	---
20338	5/16″	1.25	0.62	0.08	---
20339	3/8″	1.31	0.69	0.10	---

62PBH **329P** 282P

UNION TUBE #M62C - FLARELESS X STANDARD COMPRESSION

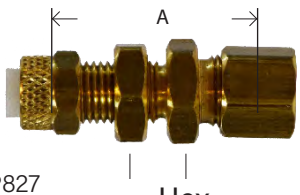


MP62C
262PFC

PART #	TUBE O.D.	A	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
20235	1/4″	0.75	0.44	0.50	0.04	---
20237	3/8″	0.84	0.62	0.62	0.08	---

262S **62PCA** 262PC

BULKHEAD UNION - FLARELESS X COMPRESSION



MP827
282PFC

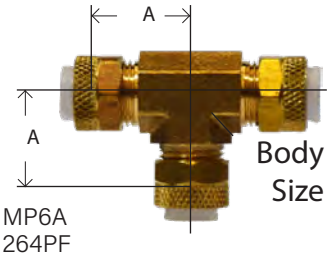
PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
20333	1/4″	1.31	0.56	0.07	---
20334	3/8″	1.44	0.69	0.12	---

1274

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FLARELESS
BRASS FITTINGS

UNION TEE



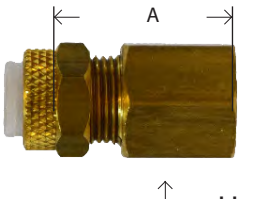
MP6A
264PF

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20248	1/8″	0.62	0.31	0.02	---
20249	3/16″	0.62	0.31	0.04	---
20250	1/4″	0.73	0.44	0.06	---
20251	5/16″	0.62	0.37	0.08	---
20252	3/8″	0.86	0.56	0.08	---
20330*	3/8″ x 1/4″	0.72	0.44	0.08	---
20253	1/2″	0.81	0.62	0.24	---

* Reducing Branch

1264 **164P** 264P

FEMALE CONNECTOR

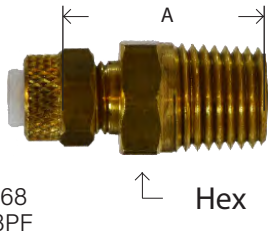


MP66
266PF

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20256	1/8″ x 1/8″	0.75	0.56	0.03	---
20257	3/16″ x 1/8″	0.78	0.56	0.05	---
20259	1/4″ x 1/8″	0.76	0.50	0.04	---
20260	1/4″ x 1/4″	1.08	0.62	0.05	---
20261	5/16″ x 1/8″	0.75	0.50	0.03	---
20265	3/8″ x 1/8″	0.77	0.56	0.05	---
20262	3/8″ x 1/4″	0.94	0.62	0.05	---
20263	1/2″ x 3/8″	1.00	0.81	0.12	---

1266 **66P** 266P

MALE CONNECTOR

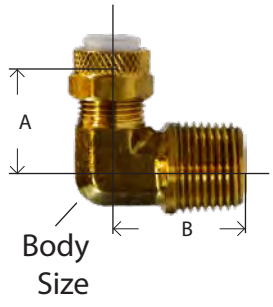


MP68
268PF

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20268	1/8″ x 1/8″	0.80	0.34	0.04	---
20269	3/16″ x 1/8″	0.86	0.44	0.04	---
20270	1/4" x 10/32"				
20271	1/4″ x 1/8″	0.82	0.44	0.03	---
20272	1/4″ x 1/4″	1.00	0.56	0.05	---
20273	1/4″ x 3/8″	1.03	0.69	0.08	---
20274	5/16″ x 1/8″	0.81	0.44	0.04	---
20275	5/16″ x 1/4"	1.00	0.56	0.05	---
20276	3/8″ x 1/8″	1.00	0.56	0.06	---
20277	3/8″ x 1/4″	1.03	0.56	0.08	---
20278	3/8″ x 3/8″	1.03	0.69	0.10	---
20279	1/2″ x 3/8″	1.09	0.69	0.16	---
20282	1/2″ x 1/2″	1.33	0.88	0.18	---

1268 **68P** 268P

MALE ELBOW



MP69
269PF

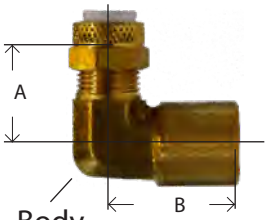
PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20287	1/8″ x 1/8″	0.62	0.69	0.31	0.02	---
20288	3/16″ x 1/8″	0.62	0.69	0.37	0.04	---
20289*	1/4″ x 1/8″	0.53	0.73	0.50	0.04	---
20290	1/4″ x 1/4″	0.66	0.94	0.37	0.06	---
20291	1/4″ x 3/8″	0.75	1.03	0.50	0.10	---
20292	5/16″ x 1/8″	0.62	0.75	0.41	0.04	---
20293	3/8″ x 1/8″	0.79	0.73	0.37	0.08	---
20294	3/8″ x 1/4″	0.72	0.94	0.44	0.10	---
20295	3/8″ x 3/8″	0.78	1.03	0.50	0.14	---
20296	1/2″ x 3/8″	1.09	1.10	0.73	0.16	---

* Barstock

1269 **169P** 269P

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FEMALE ELBOW

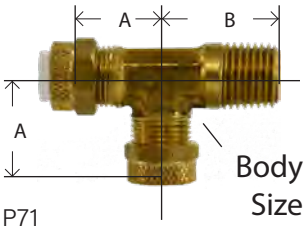


MP70
270PF

PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20300	1/8" x 1/8"	0.69	0.55	0.56	0.02	---
20301	3/16" x 1/8"	0.72	0.55	0.56	0.02	---
20302	1/4" x 1/8"	0.62	0.75	0.37	0.08	---
20303	1/4" x 1/4"	0.72	0.88	0.50	0.10	---
20304	3/8" x 1/4"	0.72	0.88	0.50	0.12	---
20305	1/2" x 3/8"	0.91	0.94	0.63	0.16	---

1270 **170P**

MALE RUN TEE

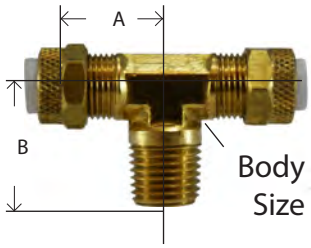


MP71
271PF

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20308	1/8" x 1/8"	0.62	0.69	0.31	0.04	---
20309	3/16" x 1/8"	0.62	0.69	0.31	0.04	---
20310	1/4" x 1/8"	0.62	0.75	0.37	0.08	---
20311	1/4" x 1/4"	0.66	0.94	0.37	0.10	---
20312	5/16" x 1/8"	0.62	0.75	0.37	0.08	---
20313	3/8" x 1/4"	0.66	0.94	0.44	0.10	---
20314	1/2" x 3/8"	0.81	1.06	0.63	0.16	---

1271 **171P**

MALE BRANCH TEE

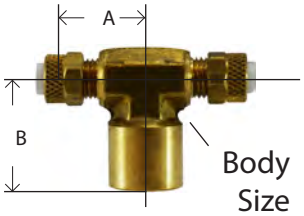


MP72
272PF

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20317	1/8" x 1/8"	0.63	0.69	0.31	0.04	---
20318	3/16" x 1/8"	0.63	0.69	0.31	0.04	---
20319	1/4" x 1/8"	0.63	0.75	0.37	0.07	---
20320	1/4" x 1/4"	0.66	0.94	0.37	0.09	---
20321	5/16" x 1/8"	0.63	0.75	0.37	0.10	---
20322	3/8" x 1/8"	0.63	0.75	0.44	0.08	---
20323	3/8" x 1/4"	0.66	0.94	0.44	0.11	---
20324	1/2" x 3/8"	0.81	1.06	0.63	0.21	---

1272 **172P** 272P

FEMALE BRANCH TEE



MP77
277PF

PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20327	1/4" x 1/8"	0.66	0.94	0.37	0.12	---
20328	1/4" x 1/4"	0.84	1.16	0.56	0.16	---

1277 **177P** 277P

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FLARELESS
BRASS FITTINGS

UNIVERSAL NUT AND BRASS SLEEVE ASSEMBLY

MP61B
261PFB

PART #	TUBE O.D.	THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
20227	1/8″	5/16-24	0.37	0.37	0.02	---
20228	3/16″	3/8-24	0.41	0.44	0.02	---
20229	1/4″	3/8-24	0.34	0.43	0.02	---
20230	5/16″	7/16-24	0.34	0.50	0.02	---
20231	3/8″	1/2-24	0.37	0.56	0.04	---
20232	1/2″	11/16-20	0.42	0.81	0.04	---

261PFB **1261B** 61PB **261UB**

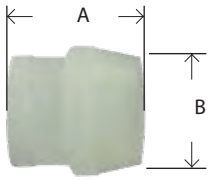
NUT

MP61
261PFN

PART #	TUBE O.D.	THREAD	A	HEX (DIA.)	APPROX. WT. LBS.	LIST PRICE
20218	1/8″	5/16-24	0.37	0.37	0.01	---
20219	3/16″	3/8-24	0.41	0.44	0.01	---
20220	1/4″	3/8-24	0.34	0.44	0.02	---
20221	5/16″	7/16-24	0.34	0.50	0.02	---
20222	3/8″	1/2-24	0.38	0.56	0.04	---
20223	1/2″	11/16-20	0.42	0.81	0.06	---

61PN **1261** 261FPN

PLASTIC SLEEVE

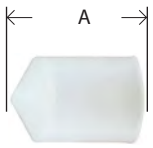


MP60
260PF

PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	LIST PRICE
20205	1/4″	0.34	0.26	0.01	---
20206	5/16″	0.39	0.32	0.01	---
20207	3/8″	0.41	0.38	0.01	---
20208	1/2″	0.44	0.51	0.01	---

260FF **1260** 60P **260P**

PLASTIC CAP



MP59
269PF

PART #	TUBE O.D.	A	APPROX. WT. LBS.	LIST PRICE
20201	1/4″	0.50	0.01	---
20203	3/8″	0.56	0.01	---
20204	1/2″	0.59	0.01	---

1229 **59P** 259P

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH-IN/ PUSH-TO-CONNECT FITTINGS

BRASS PUSH-IN

NICKEL PLATED BRASS PUSH-IN

BALL VALVES FOR N/P PUSH-IN

METRIC N/P BRASS PUSH-IN

COMPOSITE BODY PUSH-IN

COMPOSITE BODY METRIC PUSH-IN

FDA PLASTIC PUSH-IN

DOT BRASS PUSH-IN

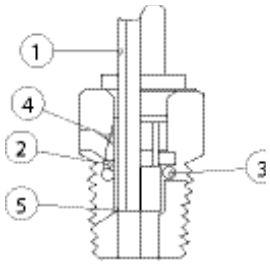
DOT COMPOSITE PUSH-IN

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS

ENGINEERING AND DESIGN

- **QUICK CONNECT**, simply push tubing in, no tools. Saves up to 75% of assembly time of standard compression fittings.
- **QUICK DISCONNECT**, hold two fingers on insert and pull tubing out, no tools required.
- **REUSEABLE**, connect and disconnect numerous times.
- **FULL FLOW DESIGN**, provides up to 60% more flow area than conventional fittings with internal tube supports.
- **POSITIVE SEAL**, no leaks. After tubing is inserted, seal is made.
- **VERSATILE**, BunaN "O" rings standard. Other materials of "O" rings available.
- **SECURE TUBE RETENTION**, pulling on tubing only serves to tighten the connection.
- **SELF CONTAINED ASSEMBLY**, no loose parts, brass body and insert.
- **BRASS CONSTRUCTION**, elbows and tees are forged brass.
- **CHOICE** of convenient swivel of economical stationary elbows and tees.
- **STRAIGHT CONNECTORS** have interior hex for Allen key tightening where space is limited...no need to use a wrench.
- **PRE-APPLIED TEFLON ®** based pipe sealant on all male pipe threads, saving customer additional labor.
- **METRIC SIZES AVAILABLE**: Metric tube sizes from 2mm through 12mm in both standard NPT and metric pipe sizes are available on a special order basis.
- **WORKING TEMPERATURE**:
-10^{0}F to 200^{0}F (other ranges available on request).
- **PIPE THREAD**: NPTF with Teflon ® based sealant pre-applied.



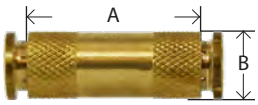
When tubing (1) is inserted into the fitting, it first passes through the gripping teeth (2). Just beyond the gripping teeth is the o-ring (3) which provides the leak proof seal against the OD of the tube. The gripping teeth grab the tube, which expands the insert. Pulling back on the tube only tightens the grip as the insert moves onto the camming surface (4). Pressure through the tube also serves to tighten the grip. The tube bottoms against a positive tube stop (5) in a cavity providing tube support to prevent leakage.

- **Tolerance**
  +/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS
BRASS FITTINGS

UNION CONNECTOR

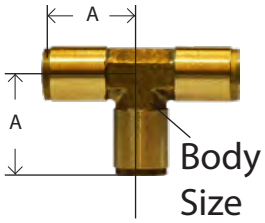


AQ62P
MQ62

PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	LIST PRICE
20017	1/8″	1.07	0.38	0.03	---
20018	5/32″	1.07	0.38	0.03	---
20019	1/4″	1.50	0.44	0.05	---
20022	3/8″ x 1/4″	1.46	0.56	0.05	---
20020	3/8″	1.44	0.56	0.06	---
20021	1/2″	1.63	0.81	0.18	---

AQ62 **6580** 3106 **62PL** KQH **12-020** 50-562 **262-OF** 1162 **262PP**

UNION TEE



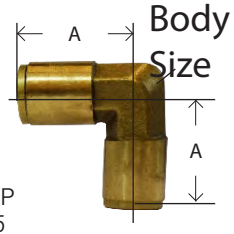
AQ64P
MQ64

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20025	1/8″	0.65	0.31	0.04	---
20026	5/32″	0.67	0.31	0.04	---
20027	3/16″	0.75	0.37	0.06	---
20028	1/4″	0.92	0.37	0.09	---
20031*	5/16″	0.89	0.49	0.10	---
20029	3/8″	0.98	0.50	0.13	---
20030	1/2″	1.16	0.62	0.24	---

* Nickel Plated

KQT **12-060** 50-564 **264OF** 264PP **1164** AQ64 **6540** 3140

UNION ELBOW

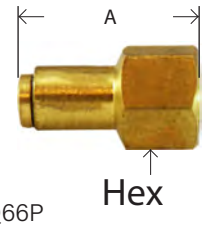


AQ65P
MQ65

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20150	1/8″	0.65	0.31	0.02	---
20151	5/32″	0.67	0.31	0.04	---
20152	1/4″	0.87	0.37	0.06	---
20155	5/16″	0.91	0.47	0.08	---
20153	3/8″	0.97	0.50	0.09	---
20154	1/2″	1.15	0.62	0.18	---

AQ65 **6550** 3102 **165PL** KQL **12-040** 50-565 **265-OF**

FEMALE CONNECTOR



AQ66P

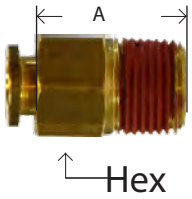
PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20032	1/8″ x 1/8″	0.96	0.56	0.04	---
20038	1/8″ x 1/4″	1.04	0.67	0.04	---
20012	5/32" x 1/8"	1.09	0.56	0.05	---
20034	1/4″ x 1/8″	1.23	0.56	0.06	---
20035	1/4″ x 1/4″	1.42	0.75	0.09	---
20036	3/8″ x 1/4″	1.32	0.75	0.09	---
20037	3/8″ x 3/8″	1.31	0.87	0.12	---

266PP **AQ66** 6463 **3114** 66PL **12-426** 50-566 **266-OF** 1166

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS
BRASS FITTINGS

MALE CONNECTOR



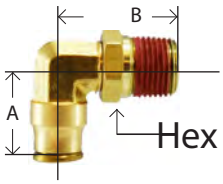
AQ68P
MQ68

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20047*	1/8" x 10-32"*	0.69	0.37	0.02	---
20045	1/8" x 1/16"	0.68	0.37	0.02	---
20048	1/8" x 1/8"	0.61	0.43	0.02	---
20023	1/8" x 1/4"	0.98	0.56	0.04	---
20049*	5/32" x 10-32"*	0.67	0.37	0.02	---
20050	5/32" x 1/8"	0.67	0.43	0.03	---
20046	5/32" x 1/4"	0.85	0.56	0.05	---
20051*	3/16" x 10-32"*	0.80	0.37	0.02	---
20052	3/16" x 1/8"	0.93	0.43	0.03	---
20053*	1/4" x 10-32"*	0.70	0.43	0.03	---
20039	1/4" x 1/16"	0.92	0.43	0.06	---
20054	1/4" x 1/8"	0.93	0.43	0.06	---
20055	1/4" x 1/4"	0.93	0.56	0.10	---
20056	1/4" x 3/8"	0.94	0.68	0.08	---
20530	5/16" x 1/8"	1.07	0.56	0.05	---
20531	5/16" x 1/4"	0.98	0.56	0.10	---
20532	5/16" x 3/8"	1.06	0.75	0.08	---
20057	3/8" x 1/8"	1.10	0.56	0.06	---
20058	3/8" x 1/4"	1.11	0.56	0.05	---
20059	3/8" x 3/8"	1.02	0.68	0.08	---
20062	3/8"x 1/2"	1.02	0.87	0.08	---
20060	1/2" x 1/4"	1.36	0.81	0.11	---
20061	1/2" x 3/8"	1.30	0.81	0.12	---
20063	1/2" x 1/2"	1.23	0.87	0.14	---

* Furnished with gaskets

268PP **AQ68** 6510 **3115** 68PL **KQH** 12-425 **50-568** 268-OF **1168**

SWIVEL MALE ELBOW



AQ69PS
MQ69S

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20079	1/8" x 1/8"	0.69	0.98	0.43	0.07	---
20535*	1/8" x 1/4"	0.76	0.87	0.56	0.06	---
20076**	5/32" x 10-32"	0.67	0.71	0.37	0.04	---
20080	5/32" x 1/8"	0.68	0.89	0.43	0.05	---
20077	5/32" x 1/4"	0.68	1.08	0.56	0.07	---
20078**	1/4" x 10-32"	0.86	0.79	0.31	0.05	---
20081	1/4" x 1/8"	0.90	0.93	0.37	0.08	---
20082	1/4" x 1/4"	0.90	0.99	0.56	0.10	---
20086	1/4" x 3/8"	0.98	1.14	0.68	0.09	---
20538*	5/16" x 1/4"	0.91	0.85	0.56	0.07	---
20539*	5/16" x 3/8"	0.91	0.87	0.75	0.08	---
20087	3/8" x 1/8"	1.00	1.06	0.43	0.09	---
20083	3/8" x 1/4"	0.99	1.15	0.56	0.10	---
20084	3/8" x 3/8"	1.00	1.24	0.68	0.20	---
20088	3/8" x 1/2"	1.00	1.54	0.87	0.19	---
20085	1/2" x 3/8"	1.16	1.34	0.68	0.18	---
20092	1/2" x 1/2"	1.16	1.51	0.87	0.24	---

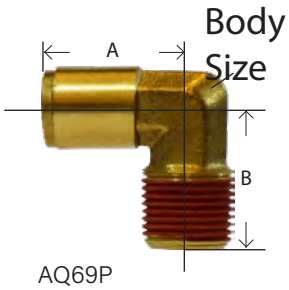
* Nickel Plated
** Furnished with gaskets

aq69-ps **56520** 3109 **169pl** kql **12-447** 50-579 **269-OFS** 11695

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS
BRASS FITTINGS

FIXED MALE ELBOW



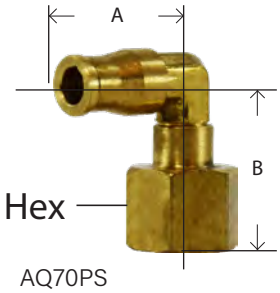
AQ69P
MQ69

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20065	1/8″ x 1/8″	0.69	0.69	0.31	0.03	---
20066	5/32″ x 1/8″	0.68	0.68	0.31	0.03	---
20067	3/16″ x 1/8″	0.75	0.71	0.37	0.04	---
20068	1/4″ x 1/8″	0.89	0.75	0.37	0.06	---
20069	1/4″ x 1/4″	0.95	0.96	0.37	0.08	---
20070	1/4″ x 3/8″	1.00	0.98	0.50	0.10	---
20071	3/8″ x 1/8″	0.99	0.80	0.50	0.06	---
20072	3/8″ x 1/4″	0.98	0.98	0.50	0.09	---
20073	3/8″ x 3/8″	0.97	0.98	0.50	0.12	---
20074	1/2″ x 1/4″	1.15	1.05	0.62	0.15	---
20075	1/2″ x 3/8″	1.18	1.05	0.62	0.22	---
20064	1/2″ x 1/2″	1.16	1.66	0.62	0.20	---

269PP **AQ69-P** 6500 **169PLNS** 12-445 **1169**

Dimension data can change without notice. Please check when dimensions are critical.

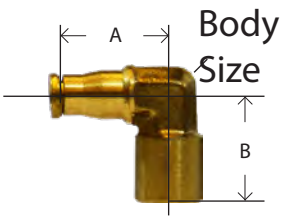
FEMALE SWIVEL ELBOW



AQ70PS
MQ70S

PART #	TUBE O.D. X FEMALE NPTF	A	B	HEX	LIST PRICE
20094S	5/32" x 1/8"	0.76	1.06	0.56	---
20089S	1/4" x 1/8"	0.98	1.08	0.56	---
20090S	1/4" x 1/4"	0.98	1.26	0.75	---
20091S	3/8" x 1/4"	1.07	1.48	0.75	---

FEMALE ELBOW



AQ70P
MQ70

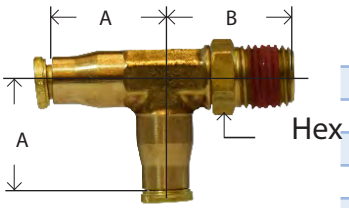
PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20192	1/8" x 1/8"	0.78	0.82	0.31	0.02	---
20094	5/32" x 1/8"	0.68	0.82	0.37	0.02	---
20089	1/4" x 1/8"	0.91	0.75	0.37	0.06	---
20090	1/4" x 1/4"	1.03	1.03	0.50	0.11	---
20091	3/8" x 1/4"	0.98	0.95	0.50	0.16	---

AQ70-P **3009**

WARNING: This product can expose you to chemicals, including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS
BRASS FITTINGS

SWIVEL MALE RUN TEE

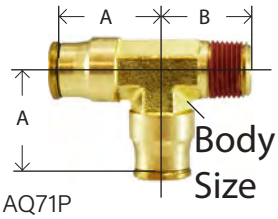


AQ71PS
MQ71S

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20160	1/8" x 1/8"	0.65	0.86	0.43	0.08	---
20161	5/32" x 1/8"	0.67	1.04	0.43	0.09	---
20162	1/4" x 1/8"	0.92	1.04	0.44	0.09	---
20163	1/4" x 1/4"	0.92	1.13	0.56	0.11	---
20164	3/8" x 1/4"	0.94	1.19	0.56	0.11	---
20165	3/8" x 3/8"	0.96	1.24	0.50	0.12	---
20174	1/2" x 1/4"	1.12	1.18	0.51	0.16	---
20166	1/2" x 3/8"	1.14	1.31	0.68	0.14	---
20167	1/2" x 1/2"	1.14	1.61	0.87	0.16	---

AQ71-PS **56440** 3103 **171PL** KQY **12-468** 50-571 **271-OFS** 11715

FIXED MALE RUN TEE

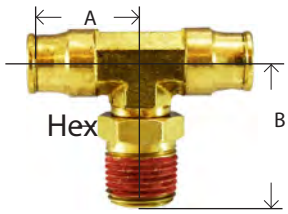


AQ71P
MQ71

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20095	1/8" x 1/8"	0.65	0.72	0.31	0.04	---
20097	3/16" x 1/8"	0.75	0.73	0.37	0.06	----
20098	1/4" x 1/8"	0.92	0.74	0.37	0.08	---
20093	1/4" x 1/4"	0.92	0.92	0.43	0.10	---
20099	3/8" x 1/8"	0.94	0.82	0.50	0.14	---
20100	3/8" x 1/4"	0.98	0.98	0.50	0.12	---
20101	3/8" x 3/8"	1.05	1.05	0.62	0.10	---
20102	1/2" x 3/8"	1.14	1.05	0.62	0.18	---

AQ71-P

SWIVEL MALE BRANCH TEE

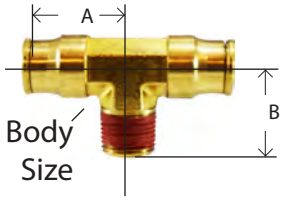


AQ72PS
MQ72S

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20103	1/8" x 1/8"	0.65	0.81	0.31	0.04	---
20104*	5/32" x 10-32"*	0.65	0.71	0.31	0.04	---
20109	5/32" x 1/8"	0.67	0.94	0.37	0.06	---
20105	1/4" x 1/8"	0.92	0.97	0.43	0.08	---
20106	1/4" x 1/4"	0.92	1.09	0.55	0.10	---
20107	3/8" x 1/4"	0.96	1.14	0.56	0.18	---
20108	3/8" x 3/8"	0.96	1.23	0.69	0.16	---
20110	1/2" x 3/8"	1.16	1.34	0.69	0.24	---
20111	1/2" x 1/2"	1.16	1.64	0.87	0.28	---

* Furnished with gaskets

FIXED MALE BRANCH TEE



AQ72P
MQ72

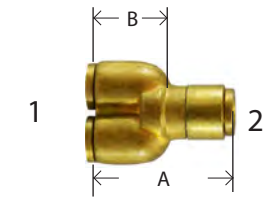
PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20112	1/8" x 1/8"	0.69	0.72	0.31	0.04	---
20113	5/32" x 1/8"	0.69	0.65	0.31	0.04	---
20115	1/4" x 1/8"	0.92	0.74	0.37	0.12	---
20116	1/4" x 1/4"	0.91	0.91	0.43	0.10	---
20117	3/8" x 1/8"	0.98	0.80	0.50	0.08	---
20118	3/8" x 1/4"	0.98	0.97	0.50	0.12	---
20119	3/8" x 3/8"	0.98	0.97	0.50	0.14	---
20120	1/2" x 3/8"	1.16	1.05	0.62	0.18	---

AQ72-P

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS
BRASS FITTINGS

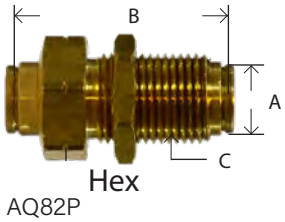
UNION "Y"



AQ89P

PART #	TUBE O.D. 1 X 2	A	B	APPROX. WT. LBS.	LIST PRICE
20551	5/32" x 5/32"	1.36	0.81	0.11	---
20552	1/4" x 1/8"	1.61	1.06	0.12	---
20553	1/4" x 1/4"	1.81	1.16	0.14	---

BULKHEAD UNION

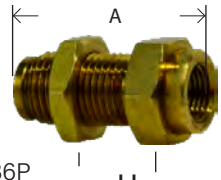


AQ82P
MQ82

PART #	TUBE O.D. A	B	C	HEX	APPROX. WT. LBS.	LIST PRICE
20124	1/8"	1.12	7/16-20	0.62	0.03	---
20125	5/32"	1.12	7/16-20	0.62	0.03	---
20126	3/16"	1.27	1/2-20	0.68	0.04	---
20127	1/4"	1.69	1/2-20	0.68	0.06	---
20128	3/8"	1.69	3/4-16	0.81	0.13	---
20129	1/2"	1.85	15/16-20	1.12	0.16	---

AQ82-P **6590** 62PLBH **KQE** 12-029 **50-582** 282-OF **1174**

FEMALE BULKHEAD UNION



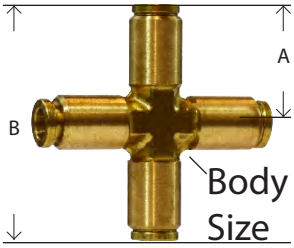
AQ86P
MQ86

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20170	1/4" x 1/8"	1.19	0.68	0.08	---
20171	1/4" x 1/4"	1.36	0.75	0.10	---
20172	3/8" x 1/4"	1.71	0.75	0.14	---

AQ86-P **1166BH**

Dimension data can change without notice. Please call us when dimensions are critical.

CROSS



SIZE	SIZE	A	B	BODY SIZE	LIST PRICE
20142	1/4"	1.03	2.06	0.37	---
20143	3/8"	1.06	2.12	0.50	---

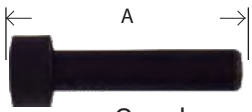
REDUCER - NICKEL PLATED - TUBE OD X STUD

MQ97

PART #	TUBE O.D. 1 X 2	A	B	APPROX. WT. LBS.	LIST PRICE
20510	1/8" x 1/4"	1.38	0.39	0.02	---
20511	5/32" x 1/4"	1.33	0.35	0.02	---
20512	1/4" x 3/8"	1.50	0.51	0.04	---

67PPL **286PP**

PLASTIC PLUG



AQ59P
MQ59

▪ Cored

PART #	TUBE O.D.	A	APPROX. WT. LBS.	LIST PRICE
20009	5/32"	1.16	0.01	---
20010	1/4"	1.40	0.01	---
20011	3/8"	1.40	0.02	---
20013	1/2"	1.50	0.02	---

284PP **AQ59** 209-OF **1129** 6900 **639PL** 12-004 **50-526**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS
WITH GLOBAL THREAD

• NPTF • BSPP • BSPT • ISO 7 • ISO 228 • G THREAD • J THREAD

- Saves time and money
- No stripped threads
- No stripped parts
- Reduce inventory
- Completely reusable
- Quick installation
- No pitch identification

Component Parts and Materials	
Body	Brass - Nickel Plated
Thrust Ring	Acetalic Resin/ Glass filled Nylon
Sleeve	Brass - Nickel Plated
Gripper Collet	Stainless Steel
Safety Ring	PA66
Lip Seal (1/8 O-Ring Seal)	NBR 70
Thread Seal	NBR 70

Max Operating Pressure: Vacuum to 290PSI.
Min Temperature: -4°F
Max Temperature: 176°F
Tubing: Nylon, Polyethylene, Polyurethane.
- For best results use 95 Durometer
Media: Compressed air, water, vacuum

- **Tolerance**
  +/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

GLOBAL THREAD

WORKS WITH INCH OR METRIC THREADS

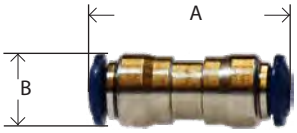
"Global Thread" fittings can be assembled with female threads produced to the following standards:

Tapered NPTF
Parrallel (BSPP, BSP, ISO 7)
Tapered (BSPT, PT, ISO 7, ISO 228)

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

UNION CONNECTOR

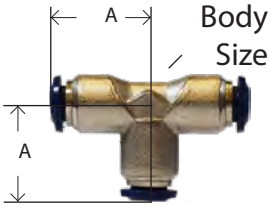


PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	LIST PRICE
20017N	1/8″	1.06	0.34	0.03	---
20018N*	5/32″	1.20	0.41	0.03	---
20016N	5/32" x 1/4"	1.20	0.40	0.04	---
20019N*	1/4″	1.38	0.49	0.05	---
20015N*	5/16"	1.46	0.57	0.06	---
20020N*	3/8″	1.69	0.69	0.06	---
20022N	3/8" x 1/4"	1.69	0.68	0.06	---
20021N*	1/2″	1.93	0.81	0.18	---
20024N	1/2" x 3/8"	1.84	0.80	0.17	---

62PL **88040**

* Available in SS

UNION TEE

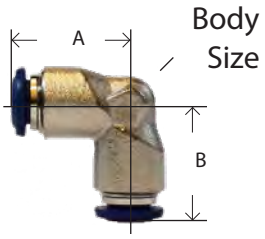


PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20025N	1/8″	0.67	0.35	0.04	---
20026N*	5/32″	0.67	0.35	0.04	---
20028N*	1/4″	0.83	0.43	0.09	---
20031N*	5/16″	0.87	0.51	0.10	---
20029N*	3/8″	1.04	0.63	0.13	---
20030N*	1/2″	1.20	0.74	0.24	---

164PL **88230**

* Available in SS

UNION ELBOW

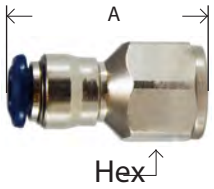


PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20150N	1/8″	0.67	0.35	0.02	---
20151N*	5/32″	0.67	0.35	0.04	---
20152N*	1/4″	0.83	0.43	0.06	---
20155N*	5/16″	0.87	0.51	0.08	---
20153N*	3/8″	1.04	0.63	0.09	---
20154N*	1/2″	1.20	0.75	0.18	---

165PL **88130**

* Available in SS

FEMALE CONNECTOR



PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20032N	1/8″ x 1/8″	0.93	0.51	0.04	---
20038N	1/8″ x 1/4″	1.14	0.63	0.04	---
20034N	1/4″ x 1/8″	1.06	0.51	0.06	---
20035N	1/4″ x 1/4″	1.26	0.63	0.09	---
20036N	3/8″ x 1/4″	1.38	0.71	0.09	---
20037N	3/8″ x 3/8″	1.38	0.79	0.12	---

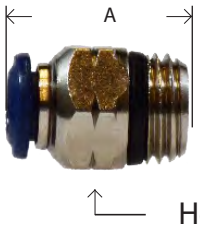
66PL **88030**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

MALE CONNECTOR

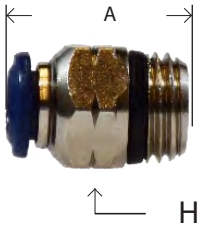


- Can be purchased with NPTF threads upon request

* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
20047N	1/8" x 10-32"	0.75	0.31	0.02	---
20048N	1/8" x 1/8"	0.77	0.43	0.02	---
20023N	1/8" x 1/4"	0.97	0.55	0.04	---
20049N*	5/32" x 10-32"	0.83	0.39	0.02	---
20050N*	5/32" x 1/8"	0.83	0.43	0.03	---
20046N*	5/32" x 1/4"	0.98	0.55	0.05	---
20053N*	1/4" x 10-32"	0.97	0.51	0.03	---
20054N*	1/4" x 1/8"	0.98	0.51	0.06	---
20055N*	1/4" x 1/4"	0.98	0.55	0.10	---
20056N	1/4" x 3/8"	0.98	0.71	0.08	---
20530N*	5/16" x 1/8"	0.98	0.55	0.05	---
20531N*	5/16" x 1/4"	1.08	0.55	0.10	---
20532N	5/16" x 3/8"	1.08	0.71	0.08	---
20057N	3/8" x 1/8"	1.38	0.67	0.06	---
20058N*	3/8" x 1/4"	1.32	0.67	0.05	---
20059N*	3/8" x 3/8"	1.32	0.71	0.08	---
20062N	3/8" x 1/2"	1.32	0.87	0.08	---
20841N	1/2" x1/8"	1.03	0.79	0.12	---
20060N	1/2" x 1/4"	1.54	0.79	0.11	---
20061N*	1/2" x 3/8"	1.42	0.79	0.12	---
20063N*	1/2" x 1/2"	1.58	0.87	0.14	---

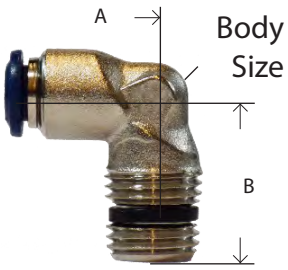
MALE CONNECTOR WITH INTERNAL HEX



PART #	TUBE O.D. X MALE GLOBAL THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
20842N	1/8" x 10-32" UNF	0.71	0.10	0.02	---
20847N	5/32" x 10-32 UNF	0.79	0.10	0.02	---
20846N	5/32" x 1/8"	0.71	0.12	0.03	---
20845N	1/4" x 10-32" UNF	0.93	0.10	0.03	---
20843N	1/4" x 1/8"	0.93	0.16	0.06	---
20844N	1/4" x 1/4"	0.85	0.16	0.10	---

68PL **87000**

FIXED MALE ELBOW



PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20068N	1/4" x 1/8"	0.83	0.73	0.43	0.06	---
20069N	1/4" x 1/4"	0.83	0.91	0.43	0.08	---
20072N	3/8" x 1/4"	1.04	1.04	0.63	0.09	---
20073N	3/8" x 3/8"	1.04	1.00	0.63	0.12	---

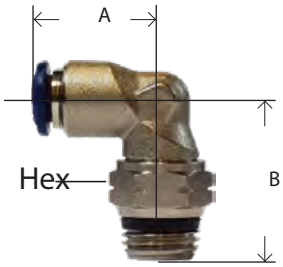
W169PLNS **8100**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

SWIVEL MALE ELBOW



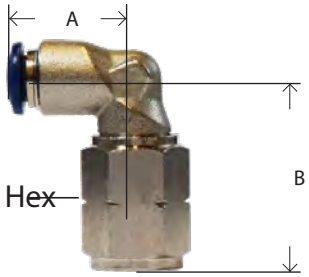
▪ Can be purchased with NPTF threads upon request

* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20079N	1/8″ x 1/8″	0.67	0.78	0.51	0.07	---
20535N	1/8″ x 1/4″	0.67	0.95	0.59	0.06	---
20076N*	5/32″ x 10-32″	0.67	0.95	0.59	0.04	---
20080N*	5/32″ x 1/8″	0.67	0.79	0.51	0.05	---
20848N*	5/32" x 1/4"	0.67	1.00	0.59	0.05	---
20081N*	1/4″ x 1/8″	0.83	0.87	0.51	0.08	---
20082N*	1/4″ x 1/4″	0.83	0.98	0.59	0.10	---
20086N	1/4″ x 3/8″	0.83	1.10	0.67	0.09	---
20537N*	5/16" x 1/8"	0.91	0.98	0.51	0.06	---
20538N*	5/16″ x 1/4″	0.89	1.02	0.59	0.07	---
20539N	5/16″ x 3/8″	0.87	1.10	0.67	0.08	---
20087N	3/8″ x 1/8″	1.04	1.02	0.51	0.09	---
20083N*	3/8″ x 1/4″	1.04	1.10	0.59	0.10	---
20084N*	3/8″ x 3/8″	1.04	1.18	0.67	0.20	---
20088N*	3/8″ x 1/2″	1.04	1.30	0.83	0.19	---
20184N	1/2" x 1/4"	1.24	1.30	0.59	0.17	---
20085N*	1/2″ x 3/8″	1.20	1.24	0.59	0.18	---
20092N*	1/2″ x 1/2″	1.20	1.42	0.83	0.24	---

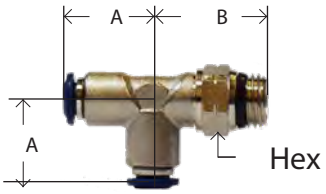
W169PL **87110**

FEMALE SWIVEL ELBOW



PART #	TUBE O.D. X FEMALE NPTF	A	B	HEX	LIST PRICE
20094N	5/32" x 1/8"	0.669	0.994	0.354	---
20089N	1/4" x 1/8"	0.826	1.023	0.433	---
20090N	1/4" x 1/4"	0.826	1.200	0.433	---
20762N	3/8" x 1/8"	0.885	1.082	0.511	---
20091N	3/8" x 1/4"	0.885	1.240	0.511	---

SWIVEL MALE RUN TEE



▪ Can be purchased with NPTF threads upon request

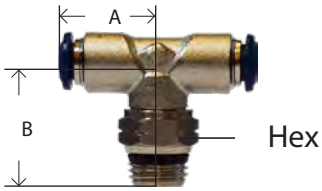
PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20095N	1/8" x 1/8"	0.67	0.81	0.51	0.05	---
20851N	1/8" x 1/4"	0.67	0.95	0.59	0.06	---
20852N	5/32" x 1/8"	0.67	0.79	0.51	0.07	---
20853N	5/32" x 1/4"	0.67	0.95	0.59	0.07	---
20162N	1/4″ x 1/8″	0.83	0.87	0.51	0.09	---
20163N	1/4″ x 1/4″	0.83	0.98	0.59	0.11	---
20164N	1/4" x 3/8"	0.83	1.10	0.59	0.11	---
20159N	3/8" x 1/8"	1.04	1.07	0.59	0.12	---
20168N	3/8" x 1/4"	1.04	1.10	0.59	0.12	---
20165N	3/8″ x 3/8″	1.04	1.18	0.67	0.12	---
20181N	3/8" x 1/2"	1.20	1.24	0.59	0.15	---
20174N	1/2″ x 1/4″	1.20	1.24	0.59	0.16	---
20166N	1/2″ x 3/8″	1.20	1.30	0.67	0.14	---
20167N	1/2" x 1/2"	1.20	1.42	0.83	0.17	---

W171PL **87222**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS
BRASS FITTINGS

SWIVEL MALE BRANCH TEE



GLOBAL THREAD
NPT - BSPT - RC - NPTF - BSPP - G

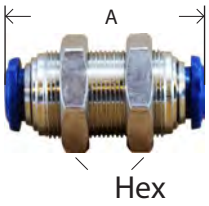
PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20103N	1/8″ x 1/8″	0.67	0.78	0.51	0.04	---
20104N	5/32″ x 10-32″	0.67	0.79	0.31	0.04	---
20109N	5/32" x 1/8"	0.70	0.79	0.51	0.06	---
20850N	5/32" x 1/4"	0.67	1.00	0.59	0.06	---
20105N	1/4″ x 1/8″	0.83	0.87	0.51	0.08	---
20106N	1/4″ x 1/4″	0.83	0.98	0.59	0.10	---
20156N	1/4" x 3/8"	1.043	1.10	0.59	0.18	---
20157N	3/8" x 1/8"	1.04	1.08	0.59	0.18	---
20107N	3/8″ x 1/4″	1.04	1.10	0.59	0.18	---
20108N	3/8″ x 3/8″	1.04	1.18	0.67	0.16	---
20158N	3/8" x 1/2"	1.04	1.30	0.82	0.18	---
20112N	1/2" x 1/4"	1.20	1.24	0.59	0.23	---
20110N	1/2″ x 3/8″	1.20	1.30	0.67	0.24	---
20111N	1/2″ x 1/2″	1.20	1.42	0.82	0.28	---

- Can be purchased with NPTF threads upon request

* Available in stainless steel

W172PL **87210**

BULKHEAD UNION

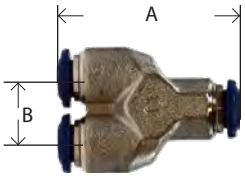


PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
20124N	1/8"	1.03	0.55	0.04	---
20125N*	5/32"	1.22	0.67	0.05	---
20127N*	1/4″	1.38	0.67	0.06	---
20123N*	5/16″	1.45	0.74	0.08	---
20128N*	3/8″	1.69	0.94	0.13	---
20129N*	1/2"	1.93	1.02	0.15	---

* Available in stainless steel

62PLBH **88050**

UNION "Y"



PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	LIST PRICE
20553N	1/4″ x 1/4″	1.44	0.53	0.14	---

662PL **88310**

REDUCER

PART #	TUBE O.D. 2	TUBE O.D. 1	A	LIST PRICE
20510N	1/4"	1/8"	1.142	---
20511N	1/4"	5/32"	1.181	---
20512N	3/8"	1/4"	1.496	---
20513N	1/2"	1/4"	1.693	---
20514N	1/2"	3/8"	1.693	---

67PPL **88700**

Also available:
- Nylon plug
- Single banjo
- Double banjo
- Push fit cartridges and tools

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CHROME PLATED BRASS MINI BALL VALVES

- Compact Design
- Max Working Pressure 250 psi
- Optional colors of handle plate for identification

PUSH-IN X PUSH-IN

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
28400	1/8	30/300	.07	---
28401	1/4	30/300	.10	---
28402	3/8	20/200	.21	---

PUSH-IN X MALE PIPE

PART #	SIZE TUBE X MIP	BOX/ CASE	WGT.	LIST PRICE
28403	5/32 x 1/8	30/300	.08	---
28407	1/4 x 1/8	30/300	.08	---
28404	1/4 x 1/4	30/300	.10	---
28405	3/8 x 3/8	20/200	.17	---

FIP X FIP

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
46650	1/8	30/300	.11	---
46651	1/4	30/300	.10	---
46652	3/8	20/200	.14	---
46653	1/2	15/150	.25	---

MIP X FIP

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
46660	1/8	30/300	.11	---
46661	1/4	30/300	.10	---
46662	3/8	20/200	.14	---
46663	1/2	15/150	.25	---

PANEL MOUNT DESIGN

FIP X FIP ANGLE

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
46670	1/8	20/200	.19	---
46671	1/4	20/200	.20	---
46672	3/8	25/250	.11	---

3-WAY FIP - OPEN CENTER

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
466900	1/8	25/250	.13	---
466901	1/4	20/200	.21	---
466902	3/8	20/200	.21	---

3-WAY FIP - CLOSED CENTER

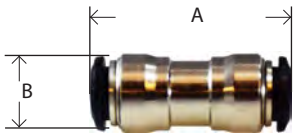
PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
46680	1/8	25/250	.13	---
46681	1/4	20/200	.21	---
46682	3/8	20/200	.21	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED METRIC PUSH-IN FITTINGS

BRASS FITTINGS

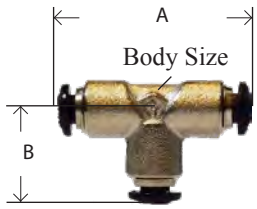
UNION



* Available in SS

PART #	TUBE O.D. (MM)	TUBE O.D. (MM)	A	B	LIST PRICE
20723N	3		1.014	0.332	---
20600N*	4		1.190	0.410	---
20724N	5		1.287	0.449	---
20725N	6	4	1.248	0.488	---
20601N*	6		1.326	0.488	---
20726N	8	6	1.365	0.566	---
20727N*	8		1.404	0.566	---
20728N	10	8	1.638	0.683	---
20603N*	10		1.638	0.683	---
20729N	12	10	1.833	0.800	---
20604N*	12		1.833	0.800	---
20730N	14		1.911	0.839	---

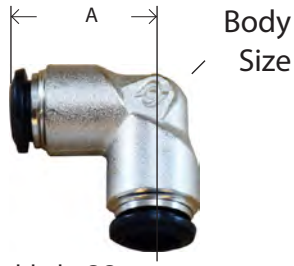
UNION TEE



* Available in SS

PART #	TUBE O.D. (MM)	A	B	BODY SIZE	LIST PRICE
20741N	3	1.326	0.663	0.351	---
20610N*	4	1.326	0.663	0.351	---
20742N	5	1.560	0.780	0.429	---
20611N*	6	1.638	0.819	0.429	---
20612N*	8	1.755	0.878	0.507	---
20613N*	10	2.067	1.034	0.624	---
20614N*	12	2.379	1.190	0.741	---
20743N	14	2.379	2.535	0.741	---

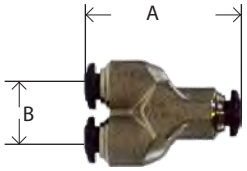
UNION ELBOW



* Available in SS

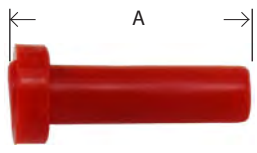
PART #	TUBE O.D. (MM)	A	BODY SIZE	LIST PRICE
20738N	3	0.663	0.51	---
20206N*	4	0.663	0.351	---
20739N	5	0.780	0.429	---
20660N*	6	0.780	0.429	---
20661N*	8	0.878	0.507	---
20807N*	10	1.034	0.624	---
20808N*	12	1.190	0.741	---
20740N	14	1.268	0.741	---

UNION Y



PART #	TUBE O.D. (MM)	B	A	LIST PRICE
20744N	3	0.390	1.131	---
20813N	4	0.429	1.248	---
20745N	5	0.527	1.365	---
20814N	6	0.527	1.424	---
20815N	8	0.605	1.599	---
20746N	10	0.728	1.890	---

PLUG



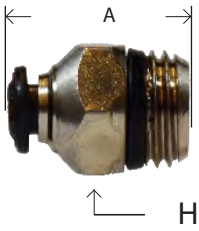
PART #	TUBE O.D. (MM)	A	LIST PRICE
20748N	4	0.917	---
20749N	5	0.956	---
20750N	6	0.956	---
20751N	8	1.014	---
20752N	10	1.112	---
20753N	12	1.190	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED METRIC PUSH-IN FITTINGS
BRASS FITTINGS

NICKEL PLATED METRIC PUSH-IN FITTINGS

METRIC TUBE STRAIGHT MALE

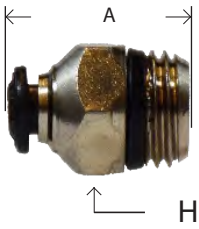


- Can be purchased with BSPP or BSPT Threads

* Available in SS

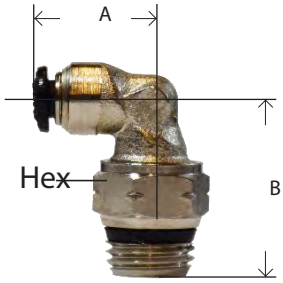
PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	HEX	LIST PRICE
20630N*	4	1/8"	0.702	0.429	---
20631N*	4	1/4"	0.760	0.546	---
20700N	5	1/8"	0.78	0.429	---
20701N	5	1/4"	0.78	0.546	---
20632N*	6	1/8"	0.78	0.546	---
20633N*	6	1/4"	0.819	0.546	---
20628N	6	3/8"	0.90	0.546	---
20629N	6	1/2"	0.92	0.546	---
20702N*	8	1/8"	0.955	0.546	---
20634N*	8	1/4"	0.858	0.546	---
20635N	8	3/8"	0.897	0.663	---
20703N	8	1/2"	0.897	0.663	---
20636N*	10	1/4"	1.092	0.663	---
20637N*	10	3/8"	1.092	0.663	---
20704N*	10	1/2"	1.014	0.663	---
20801N	12	1/4"	1.267	0.78	---
20638N*	12	3/8"	1.267	0.78	---
20705N*	12	1/2"	1.209	0.78	---
20706N	14	3/8"	1.287	0.858	---
20707N	14	1/2"	1.248	0.858	---

METRIC TUBE INTERNAL HEX



PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	HEX	LIST PRICE
20619N	3	M5	0.31	0.31	---
20620N	4	1/8"	0.71	0.43	---
20621N*	4	M5	0.39	0.38	---
20622N	4	M7 x 1"	0.83	0.38	---
20623N	6	1/4"	0.83	0.55	---
20624N	6	1/8"	0.85	0.47	---
20625N*	6	M5	0.47	0.47	---
20626N	8	1/4"	0.88	0.55	---
20627N	8	1/8"	0.98	0.55	---

METRIC TUBE SWIVEL MALE ELBOW



- Can be purchased with BSPP or BSPT Threads

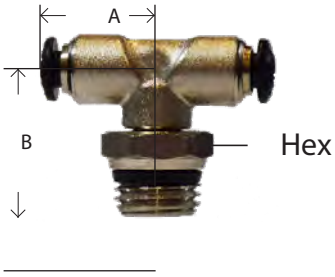
* Available in SS w BSPP or BSPT Threads

PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	LIST PRICE
20708N*	4	1/8"	0.663	0.780	0.507	---
20709N*	4	1/4"	0.663	0.936	0.585	---
20710N	5	1/8"	0.780	0.858	0.507	---
20642N*	6	1/8"	0.819	0.858	0.507	---
20803N*	6	1/4"	0.819	0.975	0.585	---
20711N*	8	1/8"	0.878	0.917	0.507	---
20805N*	8	1/4"	0.878	1.014	0.585	---
20655N	8	3/8"	0.878	1.092	0.663	---
20712N	8	1/2"	0.878	1.404	0.819	---
20656N*	10	1/4"	1.034	1.092	0.585	---
20657N*	10	3/8"	1.034	1.170	0.663	---
20713N*	10	1/2"	1.034	1.287	0.819	---
20658N*	12	3/8"	1.190	1.287	0.663	---
20659N*	12	1/2"	1.190	1.404	0.819	---
20714N	14	3/8"	1.268	1.404	0.663	---
20715N	14	1/2"	1.268	1.443	0.819	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED METRIC PUSH-IN FITTINGS
BRASS FITTINGS

METRIC TUBE SWIVEL MALE BRANCH TEE

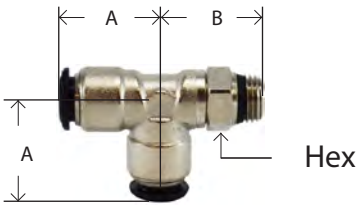


- Can be purchased with BSPP or BSPT threads

* Available in SS w/BSPP or BSPT threads

PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	LIST PRICE
20680N*	4	1/8"	0.663	0.780	0.507	---
20716N*	4	1/4"	0.663	0.936	0.585	---
20717N	5	1/8"	0.78	0.858	0.507	---
20682N*	6	1/8"	0.819	0.858	0.507	---
20683N*	6	1/4"	0.819	0.975	0.585	---
20809N*	8	1/8"	0.877	0.917	0.507	---
20684N*	8	1/4"	0.877	1.014	0.585	---
20690N	8	3/8"	0.886	1.024	0.585	---
20691N	8	1/2"	0.886	1.122	0.585	---
20686N*	10	1/4"	1.033	1.092	0.585	---
20687N*	10	3/8"	1.033	1.170	0.663	---
20810N*	10	1/2"	1.033	1.287	0.819	---
20688N*	12	3/8"	1.189	1.287	0.663	---
20689N*	12	1/2"	1.189	1.404	0.819	---
20718N	14	3/8"	1.267	1.404	0.663	---
20719N	14	1/2"	1.267	1.443	0.819	---

METRIC TUBE SWIVEL MALE RUN TEE



- Can be purchased with BSPP threads

PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	LIST PRICE
20670N	4	1/8"	0.663	0.780	0.507	---
20720N	4	1/4"	0.663	0.936	0.585	---
20721N	5	1/8"	0.780	0.858	0.507	---
20672N	6	1/8"	0.819	0.858	0.507	---
20673N	6	1/4"	0.819	0.975	0.585	---
20811N	8	1/8"	0.819	0.917	0.507	---
20674N	8	1/4"	0.878	1.014	0.585	---
20668N	8	3/8"	0.885	1.063	0.585	---
20669N	8	1/2"	0.885	1.063	0.585	---
20676N	10	1/4"	0.878	1.092	0.585	---
20677N	10	3/8"	1.034	1.170	0.663	---
20722N	10	1/2"	1.034	1.287	0.819	---
20678N	12	3/8"	1.190	1.287	0.663	---
20679N	12	1/2"	1.190	1.404	0.819	---

BULKHEAD

PART #	TUBE O.D. (MM)	M	A	HEX	LIST PRICE
20731N	3	M10x1	1.014	0.546	---
20732N*	4	MI2x1	1.229	0.663	---
20733N	5	M14x1	1.287	0.663	---
20734N*	6	M14x1	1.365	0.663	---
20735N*	8	M16x1	1.443	0.741	---
20736N*	10	M20x1	1.677	0.936	---
20737N*	12	M22x1	1.872	1.014	---

* Available in SS

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED WITH NICKEL COLLET

BRASS FITTINGS

UNION W/ NICKEL COLLET

PART #	LIST	PTC
20017NIC		1/8
20018NIC		5/32
20019NIC		1/4
20015NIC		5/16
20020NIC		3/8
20021NIC		1/2

UNION TEE W/ NICKEL COLLET

PART #	LIST	PTC X FPT
20025NIC		1/8
20026NIC		5/32
20028NIC		1/4
20029NIC		3/8
20030NIC		1/2

90° UNION ELBOW W/ NICKEL COLLET

PART #	LIST	PTC
20150NIC		1/8
20151NIC		5/32
20152NIC		1/4
20155NIC		5/16
20153NIC		3/8
20154NIC		1/2

FEMALE ADAPTER W/ NICKEL COLLET

PART #	LIST	PTC X FPT
20032NIC		1/8 x 1/8
20034NIC		1/4 x 1/8
20035NIC		1/4 x 1/4
20036NIC		3/8 x 1/4
20037NIC		3/8 x 3/8

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED WITH NICKEL COLLET

BRASS FITTINGS

MALE ADAPTER W/ NICKEL COLLET

PART #	LIST	PTC X MPT
20047NIC		1/8 x 10-32
20048NIC		1/8 x 1/8
20023NIC		1/8 x 1/4
20049NIC		5/32 x 10-32
20050NIC		5/32 x 1/8
20046NIC		5/32 x 1/4
20053NIC		1/4 x 10-32
20054NIC		1/4 x 1/8
20055NIC		1/4 x 1/4
20056NIC		1/4 x 3/8
20530NIC		5/16 x 1/8
20531NIC		5/16 x 1/4
20532NIC		5/16 x 3/8
20057NIC		3/8 x 1/8
20058NIC		3/8 x 1/4
20059NIC		3/8 x 3/8
20062NIC		3/8 x 1/2
20060NIC		1/2 x 1/4
20061NIC		1/2 x 3/8
20063NIC		1/2 x 1/2

90° MALE ELBOW SWIVEL W/ NICKEL COLLET

PART #	LIST	PTC X MPT
20079NIC		1/8 x 1/8
20535NIC		1/8 x 1/4
20076NIC		5/32 x 10-32
20080NIC		5/32 x 1/8
20081NIC		1/4 x 1/8
20082NIC		1/4 x 1/4
20086NIC		1/4 x 3/8
20538NIC		5/16 x 1/4
20539NIC		5/16 x 3/8
20087NIC		3/8 x 1/8
20083NIC		3/8 x 1/4
20084NIC		3/8 x 3/8
20088NIC		3/8 x 1/2
20184NIC		1/2 x 1/4
20085NIC		1/2 x 3/8
20092NIC		1/2 x 1/2

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED WITH NICKEL COLLET

BRASS FITTINGS

MALE RUN TEE SWIVEL W/ NICKEL COLLET

PART #	LIST	PTC X MPT
20160NIC		1/8 x 1/8
20162NIC		1/4 x 1/8
20163NIC		1/4 x 1/4
20164NIC		3/8 x 1/4

MALE BRANCH TEE SWIVEL W/ NICKEL COLLET

PART #	LIST	PTC X MPT
20103NIC		1/8 x 1/8
20105NIC		1/4 x 1/8
20106NIC		1/4 x 1/4
20107NIC		3/8 x 1/4
20108NIC		3/8 x 3/8

BULKHEAD UNION W/ NICKEL COLLET

PART #	LIST	PTC
20125NIC		5/32
20127NIC		1/4
20123NIC		5/16
20128NIC		3/8
20129NIC		1/2

METRIC UNION W/ NICKEL COLLET

PART #	LIST	PTC
20600NIC		4MM
20601NIC		6MM
20727NIC		8MM
20603NIC		10MM
20604NIC		12MM

METRIC UNION TEE W/ NICKEL COLLET

PART #	LIST	PTC
20611NIC		6MM
20612NIC		8MM

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED WITH NICKEL COLLET

BRASS FITTINGS

METRIC 90° UNION ELBOW W/ NICKEL COLLET

PART #	LIST	PTC
20206NIC		4MM
20660NIC		6MM
20661NIC		8MM
20613NIC		10MM
20614NIC		12MM
20743NIC		14MM

METRIC MALE CONNECTOR W/ NICKEL COLLET

PART #	LIST	PTC X MALE BSPT
20630NIC		4MM x 1/8
20631NIC		4MM x 1/4
20632NIC		6MM x 1/8
20633NIC		6MM x 1/4
20702NIC		8MM x 1/8
20634NIC		8MM x 1/4
20635NIC		8MM x 3/8
20636NIC		10MM x 1/4
20637NIC		10MM x 3/8
20801NIC		12MM x 1/4

METRIC 90° MALE ELBOW SWIVEL W/ NICKEL COLLET

PART #	LIST	PTC X MALE BSPT
20710NIC		4MM x 1/8
20709NIC		4MM x 1/4
20859NIC		6MM x M5
20642NIC		6MM x 1/8
20803NIC		6MM x 1/4
20702NIC		8MM x 1/8
20634NIC		8MM x 1/4
20635NIC		8MM x 3/8
20656NIC		10MM x 1/4
20657NIC		10MM x 3/8

METRIC BULKHEAD UNION W/ NICKEL COLLET

PART #	LIST	PTC
283PPNIC-4MM		4MM
283PPNIC-8MM		8MM

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL PUSH IN FITTINGS

BRASS FITTINGS

UNION STAINLESS STEEL

PART #	PTC	LIST
20019SS	1/4	
20015SS	5/16	
20020SS	3/8	
20021SS	1/2	

UNION TEE STAINLESS STEEL

PART #	PTC	LIST
20028SS	1/4	
20029R64SS	3/8	

90° UNION ELBOW STAINLESS STEEL

PART #	PTC	LIST
20151SS	5/32	
20152SS	1/4	
20155SS	5/16	
20153SS	3/8	
20154SS	1/2	

MALE CONNECTOR STAINLESS STEEL

PART #	PTC X MPT	LIST
20054SS	1/4 x 1/8	
20055SS	1/4 x 1/4	
20056SS	1/4 x 3/8	
20058SS	3/8 x 1/4	
20059SS	3/8 x 3/8	
20060SS	1/2 x 1/4	
20061SS	1/2 x 3/8	
20063SS	1/2 x 1/2	

90° MALE ELBOW SWIVEL STAINLESS STEEL

PART #	PTC X MPT	LIST
20081SS	1/4 x 1/8	
20082SS	1/4 x 1/4	
20086SS	1/4 x 3/8	
20538SS	5/16 x 1/4	
20087SS	3/8 x 1/8	
20083SS	3/8 x 1/4	
20084SS	3/8 x 3/8	
20092SS	1/2 x 1/2	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

Composite Body Push-In Fittings

Specifications

Fluid admitted	Air
Working pressure range	0-150 PSI (10BAR)
Min. Burst pressure	340PSI (23BAR)
Working Temperature range	0°F ~160°F

Materials of Construction:

1	Body	Composite Polyacetal (hemopolymer,copolymer)
2	Body	Brass
3	Tube Release	Acetal Resin
4	Retainer	Brass
5	Gripper Ring	Stainless Steel
6	Spacer	Brass
7	O-Ring	NBR 70
8	Threads	Brass w/ white sealant

The latest generation of composite material is used in the body construction in addition to brass on threaded components and stainless steel on the tube gripper.

- **Tolerance**

  +/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

UNION

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20017C	1/8"	0.01	---
20018C	5/32"	0.01	---
20001C	3/16"	0.01	---
20019C	1/4″	0.01	---
20015C	5/16"	0.01	---
20020C	3/8″	0.02	---
20021C	1/2"	0.03	---
20016C	1/4" x 5/32"	0.01	---
20515C	5/16" x 1/4"	0.01	---
20022C	3/8" x 1/4"	0.01	---
20516C	3/8" x 5/16"	0.02	---
20024C	1/2" x 3/8"	0.03	---

PQ62P

UNION TEE

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20025C	1/8"	0.01	---
20026C	5/32"	0.01	---
20027C	3/16"	0.02	---
20028C	1/4″	0.02	---
20031C	5/16"	0.02	---
20029C	3/8″	0.02	---
20030C	1/2"	0.08	---

PQ64P

90° UNION ELBOW

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20150C	1/8"	0.01	---
20151C	5/32"	0.01	---
20149C	3/16"	0.01	---
20152C	1/4″	0.02	---
20155C	5/16"	0.02	---
20153C	3/8″	0.02	---
20154C	1/2"	0.02	---

PQ65P

UNION "Y" CONNECTOR

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20551C	5/32"	0.01	---
20553C	1/4″	0.02	---
20182C	5/16"	0.02	---
20555C	3/8″	0.02	---
20185C	1/2	0.07	---

PQ89P

FEMALE CONNECTOR

- Brass

PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	LIST PRICE
20034C	1/4″ x 1/8″	0.02	---
20035C	1/4″ x 1/4″	0.04	---
20036C	3/8″ x 1/4″	0.04	---
20037C	3/8″ x 3/8″	0.06	---

PQ66P

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

MALE CONNECTOR

- Nickel Plated

- See broader range of sizes on page 104 N/P push-in fittings

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20050C	5/32" x 1/8"	0.02	---
20053C	1/4" x 10-32"	0.02	---
20054C	1/4" x 1/8"	0.02	---
20055C	1/4" x 1/4"	0.02	---
20056C	1/4" x 3/8"	0.04	---
20530C	5/16" x 1/8"	0.05	---
20531C	5/16" x 1/4"	0.05	---
20057C	3/8" x 1/8"	0.05	---
20058C	3/8" x 1/4"	0.06	---
20059C	3/8" x 3/8"	0.06	---
20062C	3/8" x 1/2"	0.08	---
20060C	1/2" x 1/4"	0.06	---
20061C	1/2" x 3/8"	0.08	---
20063C	1/2" x 1/2"	0.10	---

PQ68P

SWIVEL MALE ELBOW

- Swivels for installation only.
- Not a live swivel

* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20079C	1/8" x 1/8"	0.01	---
20535C*	1/8" x 1/4"	0.01	---
20517C*	3/16" x 1/4"	0.01	---
20080C*	5/32" x 1/8"	0.01	---
20077C*	5/32" x 1/4"	0.01	---
20049C*	5/32" x 10/32"	0.01	---
20078C	1/4" x 10-32	0.01	---
20081C	1/4" x 1/8"	0.02	---
20082C	1/4" x 1/4"	0.04	---
20086C	1/4" x 3/8"	0.06	---
20518C*	1/4" x 1/2"	0.07	---
20537C	5/16" x 1/8"	0.04	---
20538C	5/16" x 1/4"	0.04	---
20539C*	5/16" x 3/8"	0.06	---
20087C	3/8" x 1/8'	0.04	---
20083C	3/8" x 1/4"	0.08	---
20084C	3/8" x 3/8"	0.10	---
20088C	3/8" x 1/2"	0.12	---
20184C	1/2" x 1/4"	0.14	---
20085C	1/2" x 3/8"	0.16	---
20092C*	1/2" x 1/2"	0.18	---

PQ69PS

LONG PATTERN MALE ELBOWS

PART #	TUBE O.D. X THREAD	APPROX. WT. LBS.	LIST PRICE
20572C	1/4 X 1/8	0.03	---
20573C	1/4 X 1/4	0.05	---
20574C	1/4 X 3/8	0.06	---
20579C	3/8 X 1/4	0.09	---
20580C	3/8 X 3/8	0.12	---
20581C	3/8 X 1/2	0.14	---
20582C	1/2 X 1/4	0.16	---
20583C	1/2 X 3/8	0.18	---
20584C	1/2 X 1/2	0.20	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

FEMALE SWIVEL ELBOWS

PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	LIST PRICE
20089C	1/4 X 1/8	0.05	---
20090C	1/4 X 1/4	0.06	---
20591C	1/4 X 3/8	0.07	---
20091C	3/8 X 1/4	0.10	---
20595C	3/8 X 3/8	0.14	---
20596C	3/8 X 1/2	0.15	---
20597C	1/2 X 3/8	0.20	---
20598C	1/2 X 1/2	0.23	---

45° SWIVELS

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20139C	1/4 X 1/8	0.04	---
20140C	1/4 X 1/4	0.05	---

SWIVEL MALE RUN TEE

- Swivels for installation only.

* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20160C*	1/8" x 1/8"	0.03	---
20833C*	1/8" x 1/4"	0.03	---
20835C*	5/32" x 10-32	0.03	---
20162C	1/4" x 1/8"	0.04	---
20163C	1/4" x 1/4"	0.04	---
20834C*	1/4" x 10-32	0.04	---
20099C	3/8" x 1/8"	0.06	---
20100C	3/8" x 1/4"	0.08	---
20165C	3/8" x 3/8"	0.10	---
20181C	3/8 x 1/2	0.12	---
20174C	1/2 x 1/4	0.12	---
20166C	1/2 x 3/8	0.14	---
20167C	1/2 x 1/2	0.16	---

PQ71PS

SWIVEL MALE BRANCH TEE

- Swivels for installation only.
- Not a live swivel

* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20103C*	1/8" x 1/8"	0.02	---
20519C*	1/8" x 1/4"	0.03	---
20109C*	5/32" x 1/8"	0.02	---
20135C*	5/32" x 1/4"	0.03	---
20104C*	5/32" x 10/32"	0.03	---
20830C*	3/16" x 1/8"	0.03	---
20105C	1/4" x 1/8"	0.04	---
20106C	1/4" x 1/4"	0.06	---
20831C*	1/4" x 10/32"	0.06	---
20121C	1/4" x 3/8"	0.08	---
20136C*	5/16" x 1/8"	0.04	---
20137C*	5/16" x 1/4"	0.05	---
20832C*	5/16" x 3/8"	0.06	---
20107C	3/8" x 1/4"	0.10	---
20108C	3/8" x 3/8"	0.12	---
20158C*	3/8 X 1/2	0.14	---
20138C*	1/2 X 1/4	0.14	---
20110C	1/2 X 3/8	0.16	---
20111C	1/2 X 1/2	0.21	---

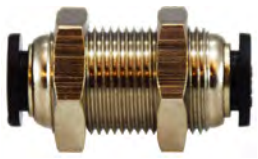
PQ72PS

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

BULKHEAD UNION



PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20127C	1/4"	0.04	---
20128C	3/8"	0.06	---
20129C	1/2"	0.10	---

PQ82P

BULKHEAD FEMALES

PART #	TUBE O.D. X THREAD	APPROX. WT. LBS.	LIST PRICE
20170C	1/4 X 1/8	0.04	---
20171C	1/4 X 1/4	0.04	---
20172C	3/8 X 1/4	0.06	---
20173C	3/8 X 3/8	0.07	---
20175C	1/2 X 1/4	0.07	---
20176C	1/2 X 3/8	0.09	---
20179C	1/2 X 1/2	0.10	---

SWIVEL "Y" CONNECTOR

▪ Swivels for installation only. ▪ Not a live swivel

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20187C	1/4 X 1/8	0.02	---
20557C	1/4" x 1/4"	0.02	---
20188C	3/8 X 1/4	0.04	---
20189C	3/8 X 3/8	0.04	---
20193C	3/8 X 1/2	0.07	---
20194C	1/2 X 3/8	0.06	---
20195C	1/2 X 1/2	0.09	---

PQ88PS

IN-LINE NEEDLE VALVE

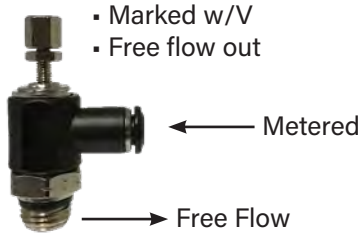
PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20487C	1/4"	0.04	---
20488C	5/16"	0.05	---
20489C	3/8"	0.06	---

PQ310C

RIGHT ANGLE FLOW CONTROL METER IN

▪ Free flow out

▪ Marked w/V
▪ Free flow out



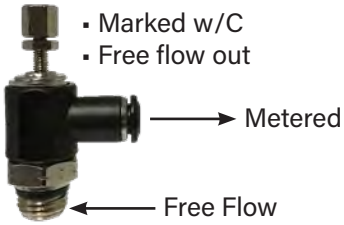
PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20727C	1/4 X 1/8	0.04	---
20728C	1/4" x 1/4"	0.04	---
20780C	3/8 X 1/4	0.06	---
20781C	3/8 X 3/8	0.06	---
20782C	1/2 X 1/2	0.10	---

JPQ

RIGHT ANGLE FLOW CONTROL METER OUT

▪ Free flow in

▪ Marked w/C
▪ Free flow out



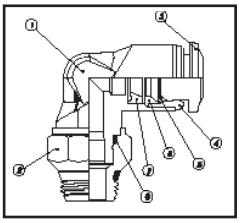
PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20785C	1/4 x 1/8	0.04	---
20786C	1/4 x 1/4	0.04	---
20787C	3/8 x 1/4	0.06	---
20788C	3/8 x 3/8	0.06	---
20789C	1/2 x 1/2	0.10	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

Technical Characteristics



PART 1	BODY	COMPOSITE
PART 2	BODY	NICKEL PLATED BRASS
PART 3	TUBE RELEASE	ACETAL RESIN
PART 4	RETAINER	NICKEL PLATED BRASS
PART 5	GRIPPER RING	STAINLESS STEEL
PART 6	SPACER	COMPOSITE
PART 7	THREAD PACKING	NBR 70
PART 8	O-RING	NBR 70
PART 9	THREAD SEAL	NBR70

Operating Range
Pressure: 0 to 220 PSI (15 bar)
Vacuum: 0 to 29hg (-.99 bar)

Temperature
-5^0 F to + 175^0 F (-20^0 C to + 80^0 C)

Media
Compressed air.
Non-toxic fluids (water)

Materials

The latest generation of composite material is used in the body construction in addition to nickel-plated brass on threaded components and stainless steel on the tube gripper.

UNION

PART #	TUBE O.D. (MM)	LIST PRICE
20600	4	---
20601	6	---
20602	8	---
20603	10	---
20604	12	---

UNION TEE

PART #	TUBE O.D. (MM)	LIST PRICE
20610	4	---
20862	5	---
20611	6	---
20612	8	---
20613	10	---
20614	12	---
20861	14	---

3104

UNION ELBOW

PART #	TUBE O.D. (MM)	LIST PRICE
20806	4	---
20660	6	---
20661	8	---
20807	10	---
20808	12	---
20740	14	---

3102

MALE ADAPTER

PART #	TUBE OD (MM)	BSPT THREAD	LIST PRICE
20630	4	1/8″	---
20631	4	1/4″	---
20632	6	1/8″	---
20633	6	1/4″	---
20634	8	1/4″	---
20635	8	3/8″	---
20636	10	1/4″	---
20637	10	3/8″	---
20801	12	1/4″	---
20638	12	3/8″	---

3175

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

SWIVEL ELBOW

PART #	TUBE OD (MM)	BSPT THREAD	LIST PRICE
20690*	4	M5	---
20856*	4	1/8"	---
20855*	4	1/4"	---
20692*	5	M5	---
20857*	5	1/8"	---
20859*	6	M5	---
20642	6	1/8″	---
20803	6	1/4″	---
20698*	6	3/8"	---
20699*	6	1/2"	---
20711*	8	1/8"	---
20805	8	1/4″	---
20655	8	3/8"	---
20712*	8	1/2"	---
20656	10	1/4"	---
20657	10	3/8"	---
20713*	10	1/2"	---
20790	12	1/4"	---
20658	12	3/8"	---
20659	12	1/2"	---
20714*	14	3/8"	---
20854*	14	1/2"	---

* Global Thread
- BSPP Available

SWIVEL BRANCH TEE

PART #	TUBE OD (MM)	BSPT THREAD	LIST PRICE
20680*	4	1/8″	---
20860*	4	1/4"	---
20717*	5	1/8"	---
20682	6	1/8″	---
20683	6	1/4″	---
20809	8	1/8"	---
20684	8	1/4"	---
20685	8	3/8"	---
20686	10	1/4"	---
20687	10	3/8"	---
20810	10	1/2"	---
20688	12	3/8"	---
20689	12	1/2"	---
20718*	14	3/8"	---
20719*	14	1/2"	---

* Global Thread
- BSPP Available

SWIVEL RUN TEE

PART #	TUBE OD (MM)	BSPT THREAD	LIST PRICE
20670	4	1/8″	---
20720*	4	1/4"	---
20721*	5	1/8"	---
20672	6	1/8″	---
20673	6	1/4″	---
20811	8	1/8"	---
20674	8	1/4"	---
20675	8	3/8"	---
20676	10	1/4"	---
20677	10	3/8"	---
20678	12	3/8"	---
20679	12	1/2"	---

* Global Thread
- BSPP Available

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METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

UNION WYE

PART #	TUBE OD (MM)	LIST PRICE
20813	4	---
20814	6	---
20815	8	---
20746	10	---
20802	12	---

SWIVEL MALE WYE

PART #	TUBE OD (MM)	GLOBAL THREAD	LIST PRICE
20816	4	1/8"	---
20821*	4	1/4"	---
20817*	6	1/8"	---
20818	6	1/4"	---
20819*	8	1/8"	---
20820*	8	1/4"	---
20822*	8	3/8"	---
20823*	10	1/4"	---
20824*	10	3/8"	---
20825*	10	1/2"	---
20826*	12	3/8"	---
20827*	12	1/2"	---

* Global Thread
▪ BSPP Available

Also available:
- 45° elbow swivel
- 4 position Y
- Manifolds
- Extended swivel elbows
- Bulkhead union
- Plug-in elbows and tees

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D.O.T. PUSH-IN TUBE FITTINGS

Meets D.O.T. FMVSS 571.106 SAE J1131 Air Brake System Require-

Benefits for Cost Savings & Engineering Project

- **Fast assembly:** No tools required. Simply push tubing in. Saves up to 75% of assembly time compared to standard air compression fittings. No loose parts to handle.
- **Fast disconnect:** Hold the collet collar with two fingers and pull out tube. No tools required.
- **Reusable:** Can be connected and disconnected several times.
- **Reliable sealing:** Using recommended tubing, full sealing is guaranteed.
- **Versatility:** Buna N O'ring standard. Viton and others available per request. Secure tube retention. Pulling on tubing only serves to tighten the connection.
- **Pre-Applied Teflon®** based pipe sealant on all male pipe threads, saving customer additional labor.
- **Full Flow Design,** provides more flow area than con-

DOT Fittings are constructed with an all brass captive eyelet which allows for maximum flow. The brass captive eyelet with extended length is floating and has a machined top end radius for easy installation of tubing. All male threads have a pre-applied Teflon® based pipe sealant to provide for easy assembly and leak proof seal.

- **Materials:**
  Brass
  "O" Ring: Buna - Nitrile (90 Durometer)
  EP (Ethylene Propylene)

- **Working Pressures & Temperature Ranges**
  Vacuum to 150 PSI
  -40°F to 200° F (-40°C to +93°C)

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including Lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information visit www.P65Warnings.ca.gov

D.O.T. PUSH-IN
BRASS FITTINGS

PLUG

AQ59DOT

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
595320	5/32″	0.01	---
590400	1/4″	0.02	---
590600	3/8″	0.02	---
590800	1/2″	0.04	---

1829 **DQ59DOT** 639PMT

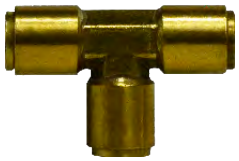
UNION

AQ62DOT
DQ62

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
620532	5/32″	0.06	---
620400	1/4″	0.06	---
620600	3/8″	0.13	---
620604	3/8" x 1/4"	0.15	---
620800	1/2″	0.19	---
621000	5/8″	0.30	---
621200	3/4″	0.44	---

AQ62DOT **62PMT** 1862 **DQ62DOT**

UNION TEE



AQ64DOT
DQ64

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
640400	1/4″	0.09	---
640600	3/8″	0.16	---
640800	1/2″	0.25	---
641000	5/8"	0.32	---
641200	3/4"	0.36	---

AQ64DOT **164 PMT** 1864 **DQ64DOT**

UNION ELBOW

AQ65DOT
DQ65

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
655320	5/32″	0.03	---
650400	1/4″	0.06	---
650600	3/8″	0.12	---
650800	1/2″	0.18	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. PUSH-IN
BRASS FITTINGS

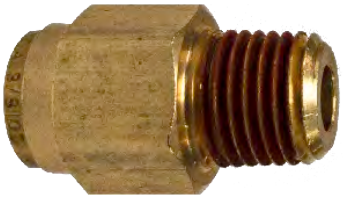
FEMALE CONNECTOR

AQ66DOT
DQ66

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	LIST PRICE
660402	1/4″ x 1/8″	0.06	---
660404	1/4″ x 1/4″	0.10	---
660602	3/8″ x 1/8″	0.11	---
660604	3/8″ x 1/4″	0.11	---
660606	3/8″ x 3/8″	0.17	---
660804	1/2″ x 1/4″	0.14	---
660806	1/2″ x 3/8″	0.16	---
660808	1/2″ x 1/2″	0.25	---

AQ66DOT **66PMT** 1866 **DQ66DOT**

MALE CONNECTOR



AQ68DOT
DQ68

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
685320	5/32″ x 10/32″	0.02	---
685321	5/32″ x 1/16″	0.02	---
685322	5/32″ x 1/8″	0.02	---
680302	3/16″ x 1/8″	0.02	---
680421	1/4" x 1/16"	0.02	---
680402	1/4″ x 1/8″	0.03	---
680404	1/4″ x 1/4″	0.04	---
680406	1/4″ x 3/8″	0.07	---
680602	3/8″ x 1/8″	0.06	---
680604	3/8″ x 1/4″	0.07	---
680606	3/8″ x 3/8″	0.06	---
680608	3/8″ x 1/2″	0.13	---
680804	1/2″ x 1/4″	0.11	---
680806	1/2″ x 3/8″	0.12	---
680808	1/2″ x 1/2″	0.14	---
681006	5/8″ x 3/8″	0.18	---
681008	5/8″ x 1/2″	0.18	---
681208	3/4″ x 1/2″	0.20	---
681212	3/4″ x 3/4″	0.20	---

AQ68DOT **68PM** 1868 **DQ68DOT** 68PMT

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MALE ELBOW

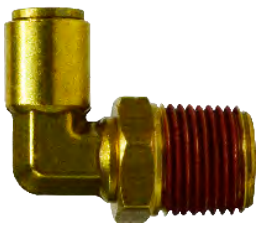
Forged

AQ69DOT
DQ69

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
695302	5/32" x 1/16"	0.03	---
695322	5/32" x 1/8"	0.03	---
690302	3/16" x 1/8"	0.03	---
690402	1/4" x 1/8"	0.08	---
690404	1/4" x 1/4"	0.06	---
690406	1/4" x 3/8"	0.11	---
690602	3/8" x 1/8"	0.08	---
690604	3/8" x 1/4"	0.09	---
690606	3/8" x 3/8"	0.11	---
690608	3/8" x 1/2"	0.20	---
690804	1/2" x 1/4"	0.22	---
690806	1/2" x 3/8"	0.22	---
690808	1/2" x 1/2"	0.24	---
691006	5/8" x 3/8"	0.30	---
691008	5/8" x 1/2"	0.32	---
691208	3/4" x 1/2"	0.32	---
691212	3/4" x 3/4"	0.34	---

AQ69DOT **169 PMTNS** 1869 **DQ69DOT**

MALE SWIVEL ELBOW



AQ62DOTS
DQ69S

Forged

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
695322S	5/32" x 1/8"	0.07	---
690402S	1/4" x 1/8"	0.06	---
690404S	1/4" x 1/4"	0.10	---
690406S	1/4" x 3/8"	0.10	---
690602S	3/8" x 1/8"	0.10	---
690604S	3/8" x 1/4"	0.11	---
690606S	3/8" x 3/8"	0.12	---
690608S	3/8" x 1/2"	0.20	---
690804S	1/2" x 1/4"	0.16	---
690806S	1/2" x 3/8"	0.18	---
690808S	1/2" x 1/2"	0.26	---
691006S	5/8" x 3/8"	0.28	---
691008S	5/8" x 1/2"	0.30	---
691208S	3/4" x 1/2"	0.50	---
691212S	3/4" x 3/4"	0.56	---

AQ69DOTS **169PMT** 1869 **DQ69DOTS**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. PUSH-IN
BRASS FITTINGS

FEMALE ELBOW

Forged

AQ70DOTS
DQ70

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	LIST PRICE
700402	1/4″ x 1/8″	0.06	---
700404	1/4″ x 1/4″	0.10	---
700406	1/4″ x 3/8″	0.16	---
700602	3/8″ x 1/8″	0.15	----
700604	3/8″ x 1/4″	0.12	---
700606	3/8″ x 3/8″	0.17	---
700806	1/2″ x 3/8″	0.26	---
700808	1/2″ x 1/2″	0.30	---

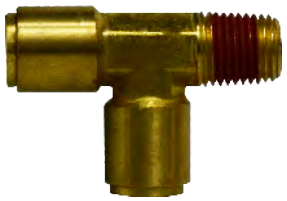
AQ70DOTS **1870** DQ70DOTS **170PMTNS**

FEMALE SWIVEL ELBOW

AQ70DOTS

PART #	TUBE O.D. X FEMALE NPTF	LIST PRICE
700404S	1/4″ x 1/4"	---

MALE RUN TEE



Forged

AQ71DOT
DQ71

PART #	TUBE O.D. X MALE NPTF (1 X 3) X 2	APPROX. WT. LBS.	LIST PRICE
710402	1/4″ x 1/8″	0.06	---
71040604	(1/4" x 3/8") x 1/4"	0.20	----
710404	1/4″ x 1/4″	0.08	---
710604	3/8″ x 1/4″	0.20	---
71060404	(3/8" x 1/4") x 1/4"	0.20	---
710606	3/8″ x 3/8″	0.17	---
71060406	(3/8" x 1/4") x 3/8"	0.20	----
710608	3/8″ x 1/2″	0.14	---
710806	1/2″ x 3/8″	0.28	---

AQ71DOT **171PMTNS** 1871 **DQ71DOT**

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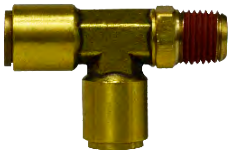
D.O.T. PUSH-IN
BRASS FITTINGS

MALE SWIVEL RUN TEE



AQ71DOTS
DQ71S

Forged

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
710402S	1/4" x 1/8"	0.09	---
710404S	1/4" x 1/4"	0.11	---
710604S	3/8" x 1/4"	0.15	---
710606S	3/8" x 3/8"	0.14	---
710804S	1/2" x 1/4"	0.24	---
710806S	1/2" x 3/8"	0.24	---
710808S	1/2" x 1/2"	0.30	---

AQ71DOTS **171PMT** 1871 **DQ71DOTS**

MALE 45° ELBOW

AQ54DOT
DQ54

Forged

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
540402	1/4" x 1/8"	0.06	---
540404	1/4" x 1/4"	0.06	---
540602	3/8" x 1/8"	0.08	---
540604	3/8" x 1/4"	0.09	---
540606	3/8" x 3/8"	0.11	---
540608	3/8" x 1/2"	0.15	---
540804	1/2" x 1/4"	0.13	---
540806	1/2" x 3/8"	0.16	---
540808	1/2" x 1/2"	0.18	---
541006	5/8" x 3/8"	0.22	---
541008	5/8" x 1/2"	0.21	---
541208	3/4" x 1/2"	0.28	---
541212	3/4" x 3/4"	0.32	---

AQ54DOT **179MTNS** 1880 **DQ54DOT**

MALE 45° SWIVEL ELBOW

AQ54DOTS
DQ54S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
540402S	1/4" x 1/8"	0.06	---
540404S	1/4" x 1/4"	0.09	---
540602S	3/8" x 1/8"	0.10	---
540604S	3/8" x 1/4"	0.11	---
540606S	3/8" x 3/8"	0.13	---
540804S	1/2" x 1/4"	0.14	---
540806S	1/2" x 3/8"	0.16	---
540808S	1/2" x 1/2"	0.18	---
541008S	5/8" x 1/2"	0.24	---

AQ54DOTS **179PMT** 1880 **DQ54DOTS**

MALE BRANCH TEE

Forged

AQ72DOT
DQ72

PART #	TUBE O.D. X MALE NPTF (1 X 2) X 3	APPROX. WT. LBS.	LIST PRICE
720302	3/16" x 1/8"	0.07	---
720402	1/4" x 1/8"	0.10	---
720404	1/4" x 1/4"	0.10	---
720604	3/8" x 1/4"	0.14	---
72060404	(3/8" x 1/4") x 1/4"	0.20	---
720606	3/8" x 3/8"	0.15	---
720804	1/2" x 1/4"	0.20	---
720806	1/2" x 3/8"	0.24	---
720808	1/2" x 1/2"	0.32	---
72100808	(5/8" x 1/2") x 1/2"	0.20	----

AQ72DOT **172PMTNS** 1872 **DQ72DOT**

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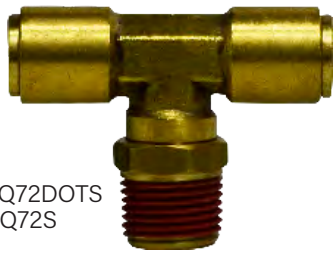
D.O.T. PUSH-IN
BRASS FITTINGS

MALE SWIVEL BRANCH TEE



AQ72DOTS
DQ72S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
720402S	1/4" x 1/8"	0.12	---
720404S	1/4" x 1/4"	0.14	---
720602S	3/8" x 1/8"	0.19	---
720604S	3/8" x 1/4"	0.15	---
720606S	3/8" x 3/8"	0.17	---
720804S	1/2" x 1/4"	0.30	---
720806S	1/2" x 3/8"	0.34	---
720808S	1/2" x 1/2"	0.22	---

AQ72DOTS **172PMT** 1872 **DQ72DOTS**

FEMALE BRANCH TEE

AQ77DOT
DQ77

(RUN) BRANCH

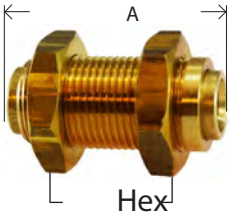
PART #	(1 & 2) X 3	LIST PRICE
770402	1/4" x 1/8"	---
770404	1/4" x 1/4"	---
770604	3/8" x 1/4"	---

GLADHAND BULKHEAD CONNECTOR

TUBE OD X MALE NPTF

PART #	SIZE	LIST PRICE
830808	1/2" x 1/2"	---

BULKHEAD UNION



AQ82DOT
DQ82

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
820400	1/4"	0.16	---
820600	3/8"	0.21	---
820800	1/2"	0.14	---
821000	5/8"	0.30	---

AQ82DOT **62PMTBH** 1874 **DQ82DOT**

FEMALE BULKHEAD UNION

AQ86DOT
DQ86

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	LIST PRICE
860402	1/4" x 1/8"	0.08	---
860404	1/4" x 1/4"	0.10	---
860604	3/8" x 1/4"	0.14	---
860606	3/8" x 3/8"	0.31	---
860808	1/2" x 1/2"	0.32	---

AQ86DOT **1873** DQ86DOT **66PMTBH**

- Jam nuts not available separately

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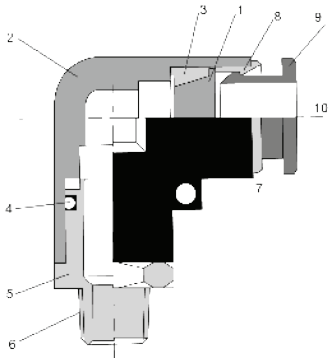
COMPOSITE BODY DOT AIRBRAKE FITTINGS

- One touch connection reduces installation time and cost.
- Rugged ultraviolet and vibration resistant composite body.
- Various shapes and configurations to meet vehicle applications and make installations easier.

SPECIFICATIONS FOR FMVSS (D.O.T.) AND SAE COMPLIANT FITTINGS

Operating Fluid	**Air**						
Max. Operating Pressure	145psi (1.0MPa)						
Proof Pressure	Size	5/32"	1/4"	3/8"	1/2"	5/8"	3/4"
	At 75°F (24°C)	1200psi	1200psi	1400psi	950psi	900psi	800psi
	At 200 °F (93°C)	450psi (3.1MPa)					
Recommended Fluid and Ambient Temperature*	-40°F to 140°F (-40°C to 60°C)						
Leak Rate at -40°F (-40°C)	7 Ncm^3/min. or less						
Thread	Thread Portion	ANSI/ASME B1.20.1, 1983 R1992					
	Nut	JIS B 0208 (Unified fine thread) ISO 263					
Thread Sealant	Fluorine/ Acrylic						
Applicable Standards	D.O.T. FMVSS 49 CFR 571.106, SAE J2494-3						
Applicable Tubing	Tubing conforming to both SAE J844 and D.O.T. FMVSS 49 CFR 571.106. Material: Nylon12						
Tube O.D.	5/32", 1/4", 3/8", 1/2", 5/8", 3/4"						



1. Chuck	Stainless steel or Brass
2. Body	Polybutylene Terephthalate (PBT), Brass
3/4. Tube seal, O-Ring	Buna-N, Nitrile Rubber
5. Stud	Brass
6. Sealant	Flourine/ Acrylic
7. Guide	Stainless Steel or Polyacetal (Acetal)
8. Stabilization Ring	Stainless Steel
9. Release Button	Polyacetal, POM (Acetal)
10. Tube support	Stainless Steel/ Brass

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COMPOSITE BODY D.O.T. PUSH-IN
BRASS FITTINGS

STRAIGHT UNION

PART #	TUBE OD (INCH)	APPROX. WT. LBS.	LIST PRICE
620532C	5/32	0.01	---
620400C	1/4	0.01	---
620600C	3/8	0.03	---
620800C	1/2	0.05	---
621000C	5/8	0.08	---

UNION TEE

PART #	TUBE OD (INCH)	APPROX. WT. LBS.	LIST PRICE
645320C	5/32	0.02	---
640400C	1/4	0.02	---
640600C	3/8	0.05	---
640800C	1/2	0.07	---
641000C	5/8	0.13	---

UNION 90° ELBOW

PART #	TUBE OD (INCH)	APPROX. WT. LBS.	LIST PRICE
655320C	5/32	0.01	---
650400C	1/4	0.02	---
650600C	3/8	0.04	---
650800C	1/2	0.05	---

FEMALE CONNECTOR

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
665302C	5/32	1/8-27	0.04	---
665304C	5/32	1/4-18	0.06	---
660402C	1/4	1/8-27	0.04	---
660404C	1/4	1/4-18	0.06	---
660406C	1/4	3/8-18	0.10	---
660602C	3/8	1/8-27	0.07	---
660604C	3/8	1/4-18	0.07	---
660606C	3/8	3/8-18	0.11	---
660608C	3/8	1/2-14	0.12	---
660802C	1/2	1/8-27	0.11	---
660804C	1/2	1/4-18	0.13	---
660806C	1/2	3/8-18	0.12	---
660808C	1/2	1/2-14	0.13	---

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COMPOSITE BODY D.O.T. PUSH-IN
BRASS FITTINGS

STRAIGHT MALE CONNECTOR

PART #	APP. TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
685301C	5/32	1/16-28	0.02	---
685302C	5/32	1/8-27	0.02	---
685304C	5/32	1/4-27	0.03	---
680402C	1/4	1/8-27	0.02	---
680404C	1/4	1/4-18	0.03	---
680406C	1/4	3/8-18	0.05	---
680602C	3/8	1/8-27	0.05	---
680604C	3/8	1/4-18	0.06	---
680606C	3/8	3/8-18	0.06	---
680608C	3/8	1/2-14	0.09	---
680804C	1/2	1/4-18	0.09	---
680806C	1/2	3/8-18	0.09	---
680808C	1/2	1/2-14	0.09	---
681006C	5/8	3/8-18	0.15	---
681008C	5/8	1/2-14	0.13	---
681208C	3/4	1/2-14	0.38	---

90° MALE ELBOW

- Fixed

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
695322SC	5/32	1/8-27	0.03	---
690402SC	1/4	1/8-27	0.03	---
690404SC	1/4	1/4-18	0.04	---
690406SC	1/4	3/8-18	0.07	---
690602SC	3/8	1/8-27	0.07	---
690604SC	3/8	1/4-18	0.06	---
690606SC	3/8	3/8-18	0.08	---
690608SC	3/8	1/2-14	0.14	---
690804SC	1/2	1/4-18	0.07	---
690806SC	1/2	3/8-18	0.09	---
690808SC	1/2	1/2-14	0.14	---
691006SC	5/8	3/8-18	0.14	---
691008SC	5/8	1/2-14	0.18	---
691208SC	3/4	1/2-14	0.26	---

90° FEMALE ELBOW

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
705302C	5/32	1/8-27	0.03	---
705304C	5/32	1/4-18	0.05	---
700402SC	1/4	1/8-27	0.03	---
700404SC	1/4	1/4-18	0.05	---
700406SC	1/4	3/8-18	0.08	---
700602C	3/8	1/8-27	0.05	---
700604SC	3/8	1/4-18	0.07	---
700606SC	3/8	3/8-18	0.09	---
700608SC	3/8	1/2-14	0.10	---
700804C	1/2	1/4-18	0.08	---
700806SC	1/2	3/8-18	0.10	---
700808SC	1/2	1/2-14	0.11	---

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COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

MALE RUN TEE

- Fixed

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
715301C	5/32	1/16	0.05	---
715302C	5/32	1/8	0.03	---
715304C	5/32	1/4	0.04	---
710402SC	1/4	1/8-27	0.04	---
710404SC	1/4	1/4-18	0.05	---
710604SC	3/8	1/4-18	0.08	---
710606SC	3/8	3/8-18	0.10	---
710608SC	3/8	1/2-14	0.15	---
710804C	1/2	1/4-8	0.09	---
710806SC	1/2	3/8-18	0.11	---
710808C	1/2	1/2-14	0.17	---

MALE BRANCH TEE

- Fixed

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
725301C	5/32	1/16	0.03	---
725302C	5/32	1/8	0.03	---
725304C	5/32	1/4	0.05	---
720402SC	1/4	1/8-27	0.04	---
720404SC	1/4	1/4-18	0.05	---
720406SC	1/4	3/8-18	0.08	---
720604SC	3/8	1/4-18	0.08	---
720606SC	3/8	3/8-18	0.10	---
720608C	3/8	1/2-14	0.15	---
720804C	1/2	1/4-18	0.09	---
720806SC	1/2	3/8-18	0.11	---
720808SC	1/2	1/2-14	0.17	---
721006C	5/8	3/8	0.18	---
721008C	5/8	1/2	0.21	---

FEMALE BRANCH TEE

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
770402C	1/4	1/8-27	0.06	---
770404C	1/4	1/4-18	0.08	---
770604C	3/8	1/4-18	0.08	---
770806C	1/2	3/8	0.13	---
771004C	5/8	1/4	0.21	---

45° MALE ELBOW

- Fixed

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
545302C	5/32	1/8-27	0.03	---
540402SC	1/4	1/8-27	0.03	---
540404SC	1/4	1/4-18	0.04	---
540602SC	3/8	1/8-27	0.06	---
540604SC	3/8	1/4-18	0.06	---
540606SC	3/8	3/8-18	0.08	---
540608SC	3/8	1/2-14	0.13	---
540802C	1/2	1/8-27	0.08	---
540804SC	1/2	1/4-18	0.08	---
540806SC	1/2	3/8-18	0.10	---
540808SC	1/2	1/2-14	0.15	---
541006SC	5/8	3/8-18	0.14	---
541008SC	5/8	1/2-14	0.17	---
541208SC	3/4	1/2-14	0.26	---

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COMPOSITE BODY D.O.T. PUSH-IN
BRASS FITTINGS

UNION "Y"

PART #	A&B TUBE OD (INCH)	C TUBE OD (INCH)	APPROX. WT. LBS.	LIST PRICE
620553C	1/4	1/4	0.03	---
620409C	1/4	3/8	0.03	---
620555C	3/8	3/8	0.05	---
620559C	3/8	1/4	0.07	---
620557C	1/2	1/2	0.08	---

MALE BRANCH "Y"

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
880402C	1/4	1/8	0.05	---
880404C	1/4	1/4	0.06	
880406C	1/4	3/8	0.09	---
620604C	3/8	1/4-18	0.09	---
620606C	3/8	3/8-18	0.12	---
620806C	1/2	3/8-18	0.13	---
620808C	1/2	1/2-14	0.15	---

BULKHEAD UNION

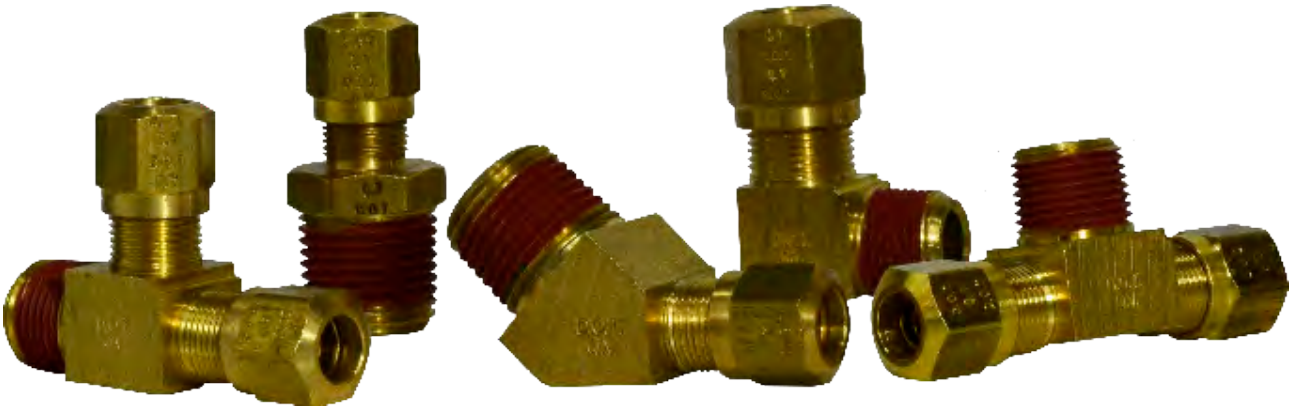
PART #	TUBE OD (INCH)	THREAD (UNF)	APPROX. WT. LBS.	LIST PRICE
825320C	5/32	1/2-20	0.07	---
820400C	1/4	9/16-18	0.07	---
820600C	3/8	7/8-14	0.19	---
820800C	1/2	1-12	0.26	---
821000C	5/8	1 1/8-12	0.42	---

FEMALE BULKHEAD CONNECTOR

PART #	APP. TUBE OD (INCH)	THREAD NPT	T (UNF)	APPROX. WT. LBS.	LIST PRICE
865304C	5/32	1/4-18	1/2-20	0.08	---
860402C	1/4	1/8-27	9/16-18	0.01	---
860404C	1/4	1/4-18	9/16-18	0.08	---
860604C	3/8	1/4-18	7/8-14	0.20	---
860606C	3/8	3/8-18	7/8-14	0.20	---
860806C	1/2	3/8-18	1-12	0.26	---
860808C	1/2	1/2-14	1-12	0.27	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE – NYLON TUBING



Tube O.D	1/4	3/8	1/2	5/8	3/4
Thread Size-B	7/16-24	1 7/32-24	11/16-20	13/16-18	1-18

▪Typical Application
Air brake systems except where temperatures exceed +200^{0}F or where battery acid can drip on tubing.

▪Pressure
Maximum operating pressure of 150 PSI.

▪Vibration
Fair resistance.

▪Temperature Range
-40^{0}F to +200^{0}F (-40^{0}C to +93^{0}C).

▪Material
Brass

▪Used With
NT Nylon Tubing - SAE J844 Type A and B.

▪ Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical

▪Advantages
Easy to assemble (no tube preparation or flaring required.) Built in tube support. Fittings utilize a ribbed sleeve for compression and positive grip. May be used with copper tubing by replacing nut, sleeve and insert with long nut and spherical sleeve. Insert should be removed for copper tubing use.

▪Conformance
Meets specifications and standards of SAE and DOT FMVSS 571,106.

▪Assembly Instructions
1- Cut tubing to desired length.
2-Slide nut and then sleeve on tubing. Threaded end of nut "A" must face toward fitting body.
3-Insert tubing into the preassembled fitting. Be sure tubing is bottomed in fitting.
4- Tighten nut to required torque as indicated on chart.

Disassembling: Remove nut and pull tubing out of fitting body. Insert will remain in tubing.
Reassembly: Push tubing and insert into fitting body until it bottoms. Thread nut onto fitting body

Tube Size	Additional Number of Turns from Hand-Tight
1/4	3
3/8, 1/2	4
5/8, 3/4	3-1/2

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D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

SLEEVE

SAE# 100115

60NA
NT60

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38000	3/16"		---
38001	1/4"	0.01	---
38002	3/8"	0.01	---
38003	1/2"	0.01	---
38004	5/8"	0.01	---
38005	3/4"	0.01	---

60NAB **60NTA** 1460

NUT

SAE# 100110

62NA
NT61

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38009	3/16"		---
38010	1/4"	0.02	---
38011	3/8"	0.03	---
38012	1/2"	0.05	---
38013	5/8"	0.06	---
38014	3/4"	0.09	---

61NAB **61NTA** 1461

UNION

SAE# 100101BA

62NA
NT62

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38018	3/16"		---
38019	1/4"	0.07	---
38020	3/8"	0.11	---
38021	1/2"	0.20	---
38022	5/8"	0.25	---
38023	3/4"	0.40	---

62NAB **62NTA** 1462

BULKHEAD UNION

62NABH
NT62BH

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38028	1/4"	0.11	---
38029	3/8"	0.16	---
38030	1/2"	0.26	---

62NBH **1474** 475

STAINLESS STEEL INSERT

• 300 SERIES STAINLESS

▪ For SAE# J844 TUBING

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38035	1/4"	0.01	---
38036	3/8"	0.01	---
38037	1/2"	0.01	---
38038	5/8"	0.01	---
38039	3/4"	0.01	---

59A **63NTA**

BRASS INSERT

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38040	1/4"	0.01	---
38041	3/8"	0.01	---
38042	1/2"	0.01	---
38043	5/8"	0.01	---
38048	3/4"	0.02	---

1484 **463**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - NYLON TUBING
BRASS FITTINGS

TEE

SAE# 100401BA

64NA
NT64

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38044	1/4″	0.12	---
38045	3/8″	0.19	---
38046	1/2″	0.36	---
38047	5/8″	0.48	---

64NAB **264NTA** 1464

REDUCING BRANCH TEE

PART #	TUBE O.D. (1&2) X 3	APPROX. WT. LBS.	LIST PRICE
38049	3/8″ x 1/4″	0.24	---
38057	1/2″ x 3/8″	0.30	---

ELBOW

SAE# 100201BA

65NA
NT65

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38052	1/4″	0.09	---
38053	3/8″	0.13	---
38054	1/2″	0.15	---
38055	5/8″	0.36	---

65NAB **265NTA** 1465

FEMALE ADAPTER

SAE# 100103BA

66NA
NT66

PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	LIST PRICE
38060	1/4″ x 1/8″	0.06	---
38061	1/4″ x 1/4″	0.08	---
38062	3/8″ x 1/8″	0.07	---
38063	3/8″ x 1/4″	0.10	---
38064	3/8″ x 3/8″	0.14	---
38065	1/2″ x 3/8″	0.16	---
38066	1/2″ x 1/2″	0.20	---
38067	5/8″ x 3/8″	0.28	---
38068	5/8″ x 1/2″	0.28	---
38059	3/4" x 1/2"	0.31	

66NAB **66NTA** 1466 **66NBH**

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Dimension data can change without notice. Please check when dimensions are critical.

D.O.T. AIR BRAKE - NYLON TUBING
BRASS FITTINGS

MALE ADAPTER
SAE# 100102BA

68NA
NT68VS

▪ More sizes available

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38072	1/4" x 1/16"	0.05	---
38073	1/4" x 1/8"	0.05	---
38074	1/4" x 1/4"	0.06	---
38075	1/4" x 3/8"	0.08	---
38076	3/8" x 1/8"	0.07	---
38077	3/8" x 1/4"	0.08	---
38078	3/8" x 3/8"	0.10	---
38079	3/8" x 1/2"	0.14	---
38080	1/2" x 1/4"	0.13	---
38081	1/2" x 3/8"	0.14	---
38082	1/2" x 1/2"	0.18	---
38087	1/2" x 3/4"	0.23	---
38083	5/8" x 3/8"	0.17	---
38084	5/8" x 1/2"	0.21	---
38088	5/8" x 3/4"	0.25	---
38085	3/4" x 1/2"	0.28	---
38086	3/4" x 3/4"	0.30	---

68NAB **68NTA** 1468

SWIVEL MALE ADAPTER

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38078S	3/8" x 3/8"	0.18	---
38081S	1/2" x 3/8"	0.22	---

MALE ELBOW
SAE# 100202BA

69NA
NT69VS

▪ More sizes available

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38091	1/4" x 1/8"	0.06	---
38092	1/4" x 1/4"	0.08	---
38093	1/4" x 3/8"	0.13	---
38094	3/8" x 1/8"	0.09	---
38095	3/8" x 1/4"	0.11	---
38090	3/8" x 1/4" LONG	0.14	---
38101	3/8" x 3/8"	0.14	---
38102	3/8" x 1/2"	0.20	---
38103	1/2" x 1/4"	0.16	---
38104	1/2" x 3/8"	0.20	---
38109	1/2" x 3/8" LONG	0.26	---
38105	1/2" x 1/2"	0.29	---
38106	5/8" x 3/8"	0.26	---
38107	5/8" x 1/2"	0.32	---
38110	5/8" x 3/4"	0.40	---
38108	3/4" x 1/2"	0.43	---
38111	3/4" x 3/4"	0.51	

269NTA **1469**

SWIVEL MALE ELBOW

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38101S	3/8" x 3/8"	0.28	---
38104S	1/2" x 3/8"	0.32	---

FEMALE ELBOW
SAE# 100203BA

70NA
NT70

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	LIST PRICE
38113	1/4" x 1/8"	0.08	---
38114	1/4" x 1/4"	0.12	---
38115	3/8" x 1/8"	0.14	---
38116	3/8" x 1/4"	0.10	---
38117	3/8" x 3/8"	0.12	---
38118	1/2" x 3/8"	0.23	---
38119	1/2" x 1/2"	0.36	---

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D.O.T. AIR BRAKE - NYLON TUBING
BRASS FITTINGS

MALE RUN TEE

SAE# 100424BA

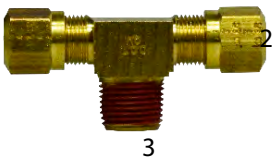
71NA
NT71VS

PART #	TUBE O.D. X MALE NPTF X TUBE O.D. 1X2X3	APPROX. WT. LBS.	LIST PRICE
38125	1/4" x 1/8" x 1/4"	0.10	---
38126	1/4" x 1/4" x 1/4"	0.13	---
38124	3/8" x 1/4" x 1/4"	0.14	---
38127	3/8" x 1/4" x 3/8"	0.17	---
38128	3/8" x 3/8" x 3/8"	0.20	---
38129	1/2" x 3/8" x 1/2"	0.30	---

71NAB **271NTA** 1471

MALE BRANCH TEE

SAE# 100425BA

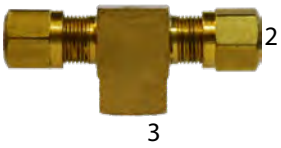


72NA
NT72VS

PART #	TUBE O.D. X TUBE O.D. X MALE NPTF 1X2X3	APPROX. WT. LBS.	LIST PRICE
38136	1/4" x 1/4" x 1/8"	0.10	---
38137	1/4" x 1/4" x 1/4"	0.13	---
38138	3/8" x 3/8" x 1/8"	0.14	---
38132	3/8" x 1/4" x 1/4"	0.15	---
38139	3/8" x 3/8" x 1/4"	0.17	---
38133	1/2" x 1/2" x 1/4"	0.26	---
38140	3/8" x 3/8" x 3/8"	0.21	---
38134	1/2" x 3/8" x 3/8"	0.26	---
38141	1/2" x 1/2" x 3/8"	0.30	---
38142	1/2" x 1/2" x 1/2"	0.37	---
38143	5/8" x 5/8" x 1/2"	0.44	---

72NAB **272NTA** 1472

FEMALE BRANCH TEE



PART #	TUBE O.D. X TUBE O.D. X FEMALE NPTF 1X2X3	APPROX. WT. LBS.	LIST PRICE
38144	3/8" x 3/8" x 1/4"	0.21	---
38146	5/8" x 5/8" x 1/4"	0.48	---

45° ELBOW

SAE# 100302BA

6945NA
NT6945VS

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38148	1/4" x 1/8"	0.06	---
38149	1/4" x 1/4"	0.08	---
38150	3/8" x 1/8"	0.09	---
38151	3/8" x 1/4"	0.11	---
38152	3/8" x 3/8"	0.14	---
38153	3/8" x 1/2"	0.24	---
38157	1/2" x 1/4"	0.18	---
38154	1/2" x 3/8"	0.19	---
38155	1/2" x 1/2"	0.25	---
38156	5/8" x 1/2"	0.30	---
38158	3/4" x 1/2"	0.38	---

6945NAB **279NTA** 1480

SWIVEL 45° ELBOW

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38152S	3/8" x 3/8"	0.20	---
38154S	1/2" x 3/8"	0.24	---

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D.O.T. AIR BRAKE - COPPER TUBING
BRASS FITTINGS

SLEEVE

SAE# 120115BA

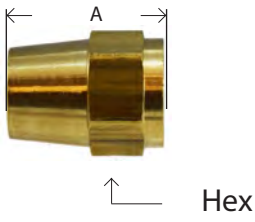
60AB
AB60

PART #	TUBE O.D.	A	APPROX. WT. LBS.	LIST PRICE
38161	1/4"	0.25	0.01	---
38162	3/8"	0.31	0.02	---
38163	1/2"	0.38	0.02	---
38164	5/8"	0.44	0.02	---
38165	3/4"	0.50	0.04	---

60AB **1360**

NUT

SAE# 120111BA



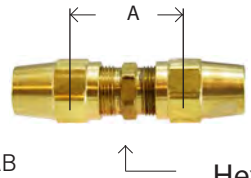
61AB
AB61

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
38170	1/4"	0.75	0.56	0.02	---
38171	3/8"	1.13	0.62	0.04	---
38172	1/2"	1.25	0.81	0.08	---
38173	5/8"	1.38	0.94	0.12	---
38174	3/4"	1.56	1.12	0.18	---

20961 **61AB** 1361

UNION

SAE# 120101BA



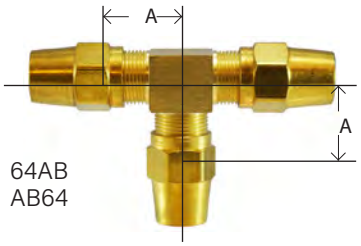
62AB
AB62

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
38179	1/4"	0.81	0.44	0.08	---
38180	3/8"	1.10	0.56	0.14	---
38181	1/2"	1.07	0.69	0.24	---
38182	5/8"	1.41	0.81	0.34	---
38183	3/4"				---

62AB **1362**

TEE

SAE# 120401BA



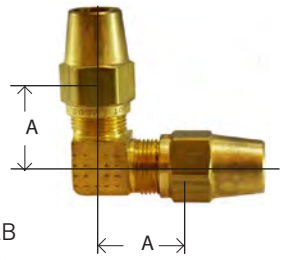
64AB
AB64

PART #	TUBE O.D.	A	APPROX. WT. LBS.	LIST PRICE
38188	1/4"	0.62	0.16	---
38189	3/8"	0.82	0.24	---
38190	1/2"	0.94	0.48	---
38191	5/8"			

264AB **1364**

ELBOW

SAE# 120201BA



65AB
A65

PART #	TUBE O.D.	A	APPROX. WT. LBS.	LIST PRICE
38196	1/4"	0.62	0.10	---

265AB **1365**

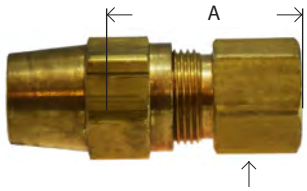
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - COPPER TUBING

BRASS FITTINGS

FEMALE ADAPTER

SAE# 120103BA



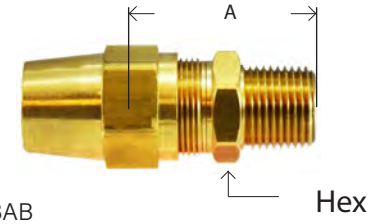
66AB
AB66

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
38204	1/4" x 1/8"	0.84	0.56	0.08	---
38205	1/4" x 1/4"	1.07	0.68	0.10	---
38206	3/8" x 1/8"	1.00	0.56	0.10	---
38207	3/8" x 1/4"	1.19	0.68	0.12	---
38208	3/8" x 3/8"	1.18	0.87	0.16	---
38209	1/2" x 3/8"	1.27	0.87	0.18	---
38210	1/2' x 1/2"	1.44	1.06	0.20	---
38211	5/8" x 3/8"	1.31	0.87	0.24	---
38212	5/8" x 1/2"	0.50	1.06	0.26	---
38213	3/4" x 1/2"				---

66AB **1366**

MALE ADAPTER

SAE# 120102BA



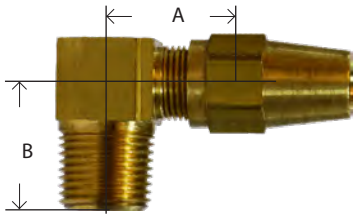
68AB
AB68

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
38217	1/4" x 1/8"	0.88	0.43	0.06	---
38218	1/4" x 1/4"	0.97	0.56	0.08	---
38221	3/8" x 1/4"	1.09	0.56	0.10	---
38222	3/8" x 3/8"	1.19	0.69	0.12	---
38223	3/8" x 1/2"	1.45	0.87	0.18	---
38224	1/2" x 1/4"	1.32	0.69	0.16	---
38225	1/2" x 3/8"	1.35	0.69	0.18	---
38226	1/2" x 1/2"	1.51	0.87	0.24	---
38227	5/8" x 3/8"	1.39	0.81	0.22	---
38228	5/8" x 1/2"	1.57	0.87	0.24	---
38229	3/4" x 1/2"	1.67	1.00	0.34	---

68AB **368**

90° MALE ELBOW

SAE# 120202BA



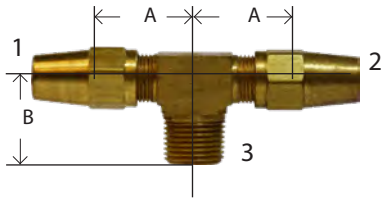
69AB
AB69

PART #	TUBE O.D. X MALE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
38235	1/4" x 1/8"	0.64	0.76	0.08	---
38236	1/4" x 1/4"	0.69	0.88	0.10	---
38237	1/4" x 3/8"	0.73	0.86	0.14	---
38239	3/8" x 1/4"	0.80	0.93	0.12	---
38240	3/8" x 3/8"	0.83	0.90	0.16	---
38241	3/8" x 1/2"				---
38243	1/2" x 3/8"	0.92	0.98	0.22	---
38244	1/2" x 1/2"	1.04	1.19	0.30	---
38246	5/8" x 1/2"	1.10	1.25	0.36	---

269AB **1369**

MALE BRANCH TEE

SAE# 120425BA



72AB
AB72

PART #	TUBE O.D. X MALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	LIST PRICE
38278	3/8" x 1/4"	0.78	0.91	0.18	---
38279	3/8" x 3/8"	0.85	0.92	0.24	---

272AB **1372**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE REUSABLE HOSE/ FITTINGS

▪Typical Application
Air Brake hose connections.
Meets SAE & DOT specifications
(FMVCS 10 GAL)

▪Pressure
Determined by maximum working pressure for hose size. Up to 125 psi

Temperature: -40^{0}F to + 120^0 F (-40°C to +48°C)

▪Advantages
Can be used for nearly any brake line. Easy to assemble with a good selection of hose end configurations. Brass material offers excellent resistance against corrosion.

▪ Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

▪Assembly Instructions
1- Slide nut and sleeve onto hose. Make sure bevel edge of sleeve faces out toward fitting.
2- Push hose into fitting until it bottoms.
3- Screw nut until contact is made with body hex.

NOTE: When reassembling fitting, body and nut should be inspected. Only reuse if in proper condition. Sleeves should never be reused.

SLEEVE

FERRULE

60HE
HE60

PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	LIST PRICE
38300	3/8″	0.02	---
38301	1/2″	0.02	---

#60HC 3380-A 0903610 367 60RB

NUT

61HE
HE61

PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	LIST PRICE
38306	3/8″	0.04	---
38307	1/2″	0.06	---

61RB **#61HC** 369 **3380-B** 0903624

NUT FOR USE WITH SPRING

61HES
HE61N

PART #	HOSE I.D. SIZE	THREAD	APPROX. WT. LBS.	LIST PRICE
38312	3/8″	31/32-20	0.04	---
38313	1/2″	1-3/32-20	0.06	---

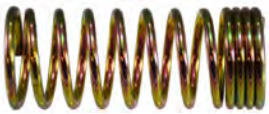
#61HCS **0903613** 3380-D **61RBSG**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - HOSE/ ENDS

BRASS FITTINGS

SPRING



61HSG
HE61G

PART #	HOSE I.D.	APPROX. WT. LBS.	LIST PRICE
38351	3/8″	0.20	---
38352	1/2″	0.22	---

#60SG **0901045** 3380-C **377**

NUT AND SPRING ASSEMBLY

HE61NG

PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	LIST PRICE
38015	3/8″	0.18	---
38016	1/2″	0.24	---

379 **67RBSG** 0999999

UNION

62HE
HE62

PART #	HOSE I.D.	THREAD	APPROX. WT. LBS.	LIST PRICE
38318	3/8″	31/32-20	0.32	---
38319	1/2″	1-1/8-20	0.48	---

#62HC **3380B-Y0** 362

BODY ONLY

PART #	HOSE I.D.	THREAD	APPROX. WT. LBS.	LIST PRICE
39318	3/8″	31/32-20	0.32	---
39319	1/2″	1-1/8-20	0.48	---

FEMALE CONNECTOR HOSE

66HEA

PART #	HOSE I.D. X FEMALE ABS	APPROX. WT. LBS.	LIST PRICE
38357	3/8″ x 3/4-20	0.24	---
38358	1/2″ x 7/8-20	0.39	---

#66ABS **66RBSV** 3380B-Y7 **386**

BODY ONLY

PART #	HOSE I.D. X FEMALE ABS	APPROX. WT. LBS.	LIST PRICE
39357	3/8″ x 3/4-20	0.24	---
39358	1/2″ x 7/8-20	0.38	---

MALE CONNECTOR

68HEA
HE68S

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	LIST PRICE
38363	3/8″ x 1/4″	0.38	---
38364	1/2″ x 3/8″	0.46	---

#68ABS **09155** 3380B-Y8 **387**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - HOSE/ENDS

BRASS FITTINGS

ADAPTER FOR SWIVEL TYPE REUSABLE AND CRIMPED

68HEAB
1390

PART #	MALE ABS X MALE PIPE	ABS THREAD	APPROX. WT. LBS.	LIST PRICE
38369	3/8" x 1/4"	3/4-20	0.05	---
38368	3/8" x 3/8"	3/4-20	0.08	---
38372	3/8" x 1/2"	3/4-20	0.12	---
38370	1/2" x 3/8"	7/8-20	0.10	---
38371	1/2" x 1/2"	7/8-20	0.12	---

#68ABS **1390** 76RB **388**

MALE ADAPTER

68HE
HE68

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	LIST PRICE
38333	3/8" x 1/4"	0.22	---
38334	3/8" x 3/8"	0.24	---
38335	3/8" x 1/2"	0.26	---
38336	1/2" x 3/8"	0.33	---
38337	1/2" x 1/2"	0.36	---

#68HC **368** 3380B-Y2 **68RB**

ADAPTER BODY

68HEB
HE68B

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	LIST PRICE
38324	3/8" x 1/4"	0.12	---
38325	3/8" x 3/8"	0.14	---
38326	3/8" x 1/2"	0.20	---
38327	1/2" x 3/8"	0.18	---
38328	1/2" x 1/2"	0.20	---

#68B **W1391Z**

MALE ADAPTER

68HES
HE68G

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	LIST PRICE
38342	3/8" x 1/4"	0.32	---
38343	3/8" x 3/8"	0.34	---
38344	3/8" x 1/2"	0.38	---
38345	1/2" x 3/8"	0.48	---
38346	1/2" x 1/2"	0.52	---

#68HCS **3380B-Y3** 68RBSG **378**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS

BRASS FITTINGS

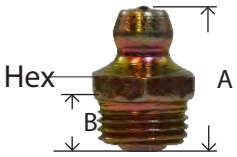
- 8000 PSI MAX. PRESSURE
- EXCEEDS 12HR SALT

Meets SAE #J-534C

Many types available on special order.

- ASSORTMENTS ALSO

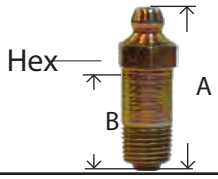
PIPE THREAD — BALL CHECK - 1/8-27 NPTF



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36110	1/8" -27 NPTF	0.66	0.28	0.437	0.01	---
36110SS	303 SS	0.68	0.29	0.437	0.01	---
36111	Thread Forming	0.62	0.23	0.437	0.01	---

#610 **1610** 2800 **1720** 5000

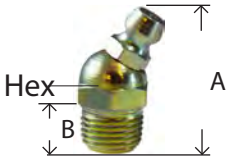
PIPE THREAD — BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36112	1/8" -27 NPTF	1.25	0.22	0.437	0.02	---
36113	1/8" -27 NPTF	1.75	1.26	0.437	0.02	---

#607 **1607** 2800 **1669** 5003

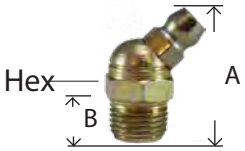
PIPE THREAD — 30° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36114	1/8" -27 NPTF	0.90	0.30	0.437	0.01	---

#611 **1611** 2830 **5100**

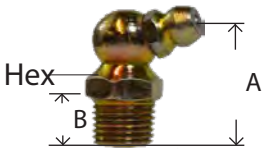
PIPE THREAD — 45° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36116	1/8" -27 NPTF	0.88	0.22	0.437	0.01	---
36116SS	303 SS	0.95	0.29	0.437	0.01	---

#688 **1688** 2845 **5200**

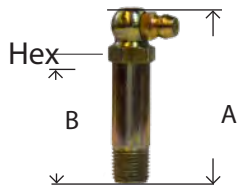
PIPE THREAD — 65° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36118	1/8" -27 NPTF	0.86	0.30	0.437	0.01	---

#612 **1612** 2865 **5300**

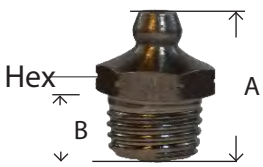
PIPE THREAD — 90° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36120	1/8" -27 NPTF	0.84	0.30	0.437	0.01	---
36120SS	303 SS	0.84	0.29	0.437	0.01	---
36121	1/8" -27 NPTF	1.81	1.25	0.437	0.01	---

#613 **1613** 2890 **5400** 5407

PIPE THREAD — BALL CHECK - 1/4-18 NPTF



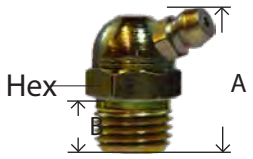
PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36130	1/4" -18 NPTF	0.84	0.30	0.437	0.02	---
36130SS	303 SS	0.87	0.42	0.437	0.02	---

#627 **1627** 2900K **5050**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE THREAD

65° ANGLE BALL CHECK

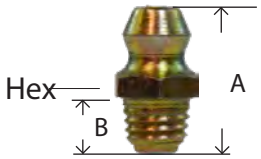


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36132	1/4"-18 NPTF	0.97	0.34	0.56	0.02	---

#629 **1629** 2965 **5350**

1/4-28 TAPER THREAD

SHORT BALL CHECK - 1/4-28 NPTF

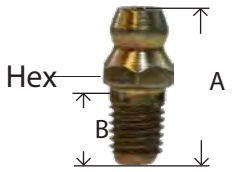


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36140	1/4"-28 NPTF	0.54	0.18	0.31	0.01	---
36140SS	303 SS	0.54	0.18	0.31	0.01	---
36141	Thread Forming	0.55	0.10	0.31	0.01	---

#641 **1641** 2400 **3038** 5010

1/4-28 TAPER THREAD

LONG BALL CHECK

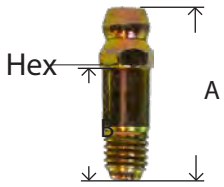


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36142	1/4"-28 Taper Thread	0.69	0.34	0.312	0.01	---

#652 **1652** 2400 **5013**

1/4-28 TAPER THREAD

EXTRA LONG BALL CHECK

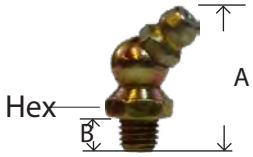


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36144	1/4"-28 Taper Thread	0.92	0.60	0.312	0.02	---

#680 **1680** 2400 **5014**

1/4-28 TAPER THREAD

SHORT 45° BALL CHECK

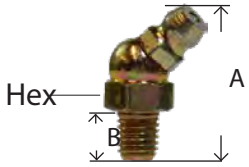


PART #	SIZE	ANGLE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36146	1/4"-28 Taper Thread	45°	0.82	0.20	0.375	0.02	---
36146SS	303 SS	45°	0.81	0.20	0.375	0.02	---

#637 **1637** 2445 **1665** 2465 **3010** 5210

1/4-28 TAPER THREAD

LONG 45° BALL CHECK

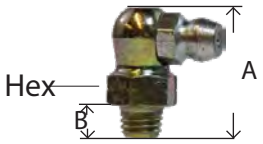


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36148	1/4"-28 Taper Thread	0.94	0.30	0.375	0.02	---

#636 **1630** 2445

1/4-28 TAPER THREAD

90° ANGLE BALL CHECK SAE# A515002



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36150	1/4"-28 Taper Thread	0.75	0.10	0.375	0.02	---
36150SS	303 SS	0.75	0.20	0.375	0.02	---
36152	Thread Forming	0.75	0.16	0.375	0.02	---

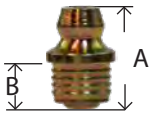
#911 **1911** 2490 **3054** 5410

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS

BRASS FITTINGS

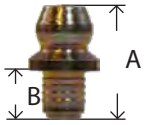
DRIVE TYPE — BALL CHECK Drive Type



PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
36160	5/16"	0.55	0.25	0.01	---

#608 **1608** 5021

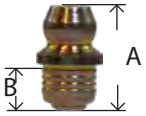
DRIVE TYPE — BALL CHECK



PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
36164	3/16"	0.52	0.25	0.01	---
36164SS	303 SS	0.51	0.25	0.01	---

#728 **1728** 2316 **5033**

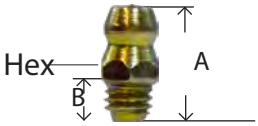
DRIVE TYPE — BALL CHECK



PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
36166	1/4"	0.55	0.23	0.01	---
36166SS	303 SS	0.55	0.23	0.01	---

#743 **1743** 214 **5029**

METRIC

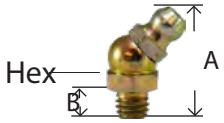


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36168	6MM x 1	16	3.7	7	0.01	---

(Diameter x Pitch)

#711 **6000** 2106 **2M6** 5175

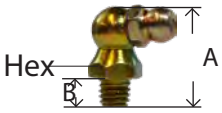
METRIC — 45° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36170	6MM x 1	21	3.7	9	0.02	---

#712 **6045** 2107 **5176**

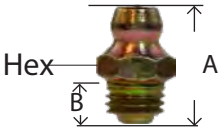
METRIC — 90° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36172	6MM x 1	18	3.7	9	0.02	---

#713 **6090** 2108 **ZM906** 5177

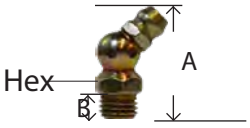
METRIC



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36174	8MM x 1	16	3.7	9	0.02	---

#811 **8000** 2103 **ZM58** 5178

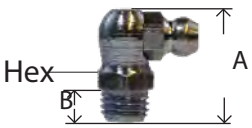
METRIC — 45° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36176	8MM x 1	21	3.7	9	0.02	---

#812 **8045** 2104 **ZM458** 5179

METRIC — 90° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36178	8MM x 1	18	3.7	9	0.02	---

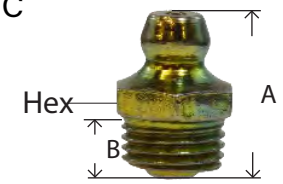
#813 **8090** 2105 **ZM908** 5180

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS

BRASS FITTINGS

METRIC



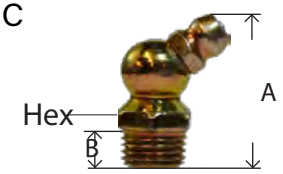
PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36180	10MM x 1	16	3.7	11	0.02	---

• DIAMETER X PITCH (EXTRA FINE)

#911 **9000** 2109 **ZM510** 5181

METRIC

45° ANGLE

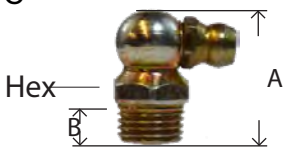


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36182	10MM x 1	21	3.7	11	0.02	---

#912 **9045** 2110 **ZM4510**

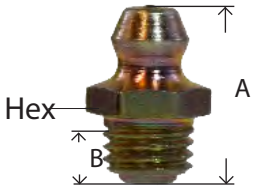
METRIC

90° ANGLE



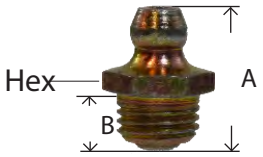
PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36184	10MM x 1	18	3.7	11	0.02	---

#913 **9090** 2111 **ZM9010** 5183



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36186	5/16"-24	0.65	0.12	0.375	0.02	---

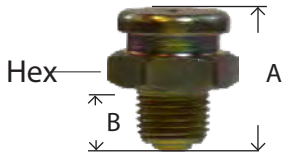
#711-B **1711** 2500



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36188	3/8"-24	0.65	0.14	0.437	0.01	---

#710-B **1710** 2600

BUTTON HEAD



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36200	1/8"-27 PTF	0.75	0.34	0.625	0.03	---
36205	1/4"-18 NPT	0.83	0.44	0.625	0.03	---

1184 **1186**

WHIP HOSE - EXCEEDS SAE 100R1-AT - USE WITH HAND GREASE GUNS ONLY

10,000 PSI BURST PRESSURE RUBBER

1/8" NPT SOLID

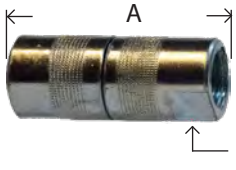
3/16" ID

3,000 PSI WORKING PRESSURE

PART #	LENGTH	LIST PRICE
36210	12" RUBBER	---
36212	18" RUBBER	---
36214	24" RUBBER	---
36216	36" RUBBER	---

4 JAW GREASE GUN COUPLER

PROVIDES QUICK, POSITIVE, LEAKPROOF CONNECTION W/ GREASE



1/8" NPTF

PART #	A	HEX	APPROX. WT. LBS.	LIST PRICE
36220	1.50	0.56	0.05	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

Adapters for Grease Fittings

ADAPTERS

• CARBON STEEL, ZINC COATED

PART #	FEMALE	MALE	L	H	WEIGHT	LIST PRICE
36300	1/8"-27 NPTF	1/4-28" SAE-LT	.75	1/2	0.02	---
36301	1/8"-27 NPTF	1/4-28" SAE-LT	.87	1/2	0.02	---

PART #	FEMALE ENGLISH TO MALE ENGLISH		L	H	WEIGHT	LIST PRICE
36304	1/4"-28 UNF	M6 x 1.0	.43	9mm	0.01	---
36305	1/4"-28 UNF	M8 x 1.0	.45	3/8	0.01	---
36306	1/4"-28 UNF	M10 x 1.0	.32	7/16	0.01	---

EXTENSIONS

PART #	FEMALE ENGLISH TO MALE ENGLISH		L	H	WEIGHT	LIST PRICE
36307	1/4"-28 UNF	1/4"-28 SAE-LT	1.34	-	0.01	---
36308	1/8"-27 NPTF	1/8"-27 NPTF	.75	1/2	0.02	---
36309*	1/8"-27 NPTF	1/8"-27 NPTF	.82	1/2	0.02	---
36310	1/8"-27 NPTF	1/8"-27 NPTF	.94	9/16	0.04	---
36311	1/8"-27 NPTF	1/8"-27 NPTF	1.25	1/2	0.04	---

*BRASS PLATED

45° ANGLE ELBOWS

PART #	FEMALE	MALE	L	H	WEIGHT	LIST PRICE
36360	1/8"-27 NPTF	1/4"-28 SAE-LT	.81	1/2	0.02	---
36362	1/8"-27 NPTF	1/8"-27 PTF SAE Short	1.00	1/2	0.03	---

90° ANGLE ELBOWS

PART #	FEMALE	MALE	L	H		LIST PRICE
36370	1/8"-27 NPTF	1/4"-28 SAE-LT	.81	1/2	0.03	---
36371	1/8"-27 NPTF	1/4"-28 SAE-LT	1.04	1/2	0.03	---
36372	1/8"-27 NPTF	1/4"-18 PTF SAE Short	1.19	9/16	0.06	---
36374	1/8"-27 NPTF	1/8"-27 PTF SAE Short	1.00	1/2	0.03	---
36375	1/8"-27 NPTF	1/8"-27 NPTF	1.13	1/2	0.03	---
36377	1/4"-18 NPTF	1/4"-18 NPTF	1.34	11/16	0.08	---
36376	1/8"-27 NPTF	1/8"-27 NPTF	1.50	5/8	0.07	---

COUPLING

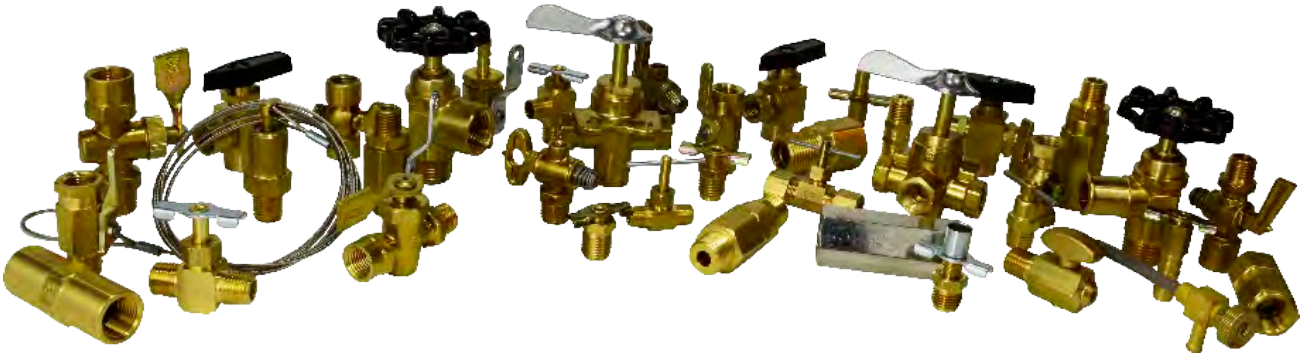
PART #	FEMALE	FEMALE	L	H	WEIGHT	LIST PRICE
36340	1/4"-28 UNF	1/8"-27 NPTF	.65	1/2	0.02	---

BULKHEAD CONNECTOR

PART #	FEMALE	MALE (FEMALE)	L	H	WEIGHT	LIST PRICE
36350	1/8"-27 NPTF	1/8"-27 NPSM (1/4"-28 UNF)	.88	1/2	0.03	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

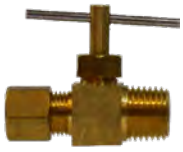
SPECIALTY VALVES AND COCKS



DRAIN COCKS

AIR VALVES

3, 4 AND 6 WAY



NEEDLE

MARINE & ANTI-SIPHON

PANEL MOUNT BALL VALVES

TRUCK

MINI BALL

SOLID BOTTOM SHUT-OFF

CHECK

SPRING BOTTOM SHUT-OFF

See our valve section for much, much more!

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

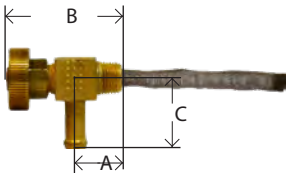
DRAIN COCKS
BRASS FITTINGS

DRAIN COCKS

- For use with low pressure air, water and fluids.
- Designed for a working pressure of 150 psi @ 250°.
- Hand-tightening provides a metal-to-metal seal.
- Not intended for natural gas, LPG, nuclear or aircraft applications.

Install on your tank for easy draining

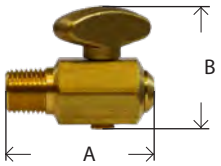
GASOLINE SHUT OFF W/ SCREEN FILTER



PART #	BARB X MALE PIPE	A	B	C	APPROX. WT. LBS.	LIST PRICE
46064	1/4" x 1/8"	0.55	1.34	0.66	0.06	---

827

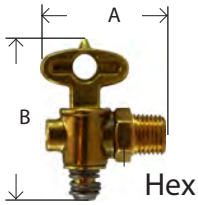
DRAIN COCK 150 PSI - TRUNK AIR TANK



PART #	MALE PIPE	A	B	APPROX. WT. LBS.	LIST PRICE
46066	1/4"	1.73	1.41	0.22	---

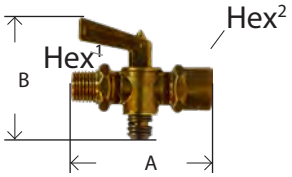
DCR601-4

TRUCK DRAIN - 125 P.S.I.G



PART #	MALE PIPE	INDUS-TRY NUMBER	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46067	1/8"		1.53	1.95	0.62	0.14	---

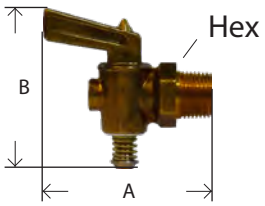
SHUT OFF - 150 P.S.I MAX.



PART #	MALE PIPE X FEMALE PIPE	INDUSTRY NUMBER	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	LIST
46069	1/4"	W20332	1.96	1.96	0.75	0.62	0.20	---

#60HC **3380-A** 0903610 **367**

LEVER HANDLE



PART #	MALE PIPE	INDUS-TRY NUMBER	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46070	1/8"	M-41-P	1.99	1.80	0.62	0.04	---
46071	1/4"	M-42-P	2.06	1.81	0.62	0.06	---
46072	3/8"	M-43-P	2.30	2.29	0.81	0.08	---
46073	1/2"	M-44-P	3.00	2.50	0.87	0.16	---

- 30 psi

*Valve is closed when handle is in the position of the picture

840 **41D** DC601

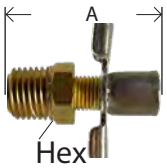
AIR TANK DRAIN PULL VALVE

PART #	SIZE	DESCRIPTION	LIST PRICE
39595	1/4" male	5ft nylon coated pull cable	---
39596	1/4" male	4ft nylon coated pull cable	---
39597	1/4" male	3ft nylon coated pull cable	---
39600	1/4" male	Air valve only	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

DRAIN COCKS
BRASS FITTINGS

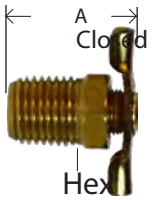
INTERNAL SEAT



PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	LIST PRICE
46079	1/8"	6783	1.45	0.55	0.02	---

DC602 **808** 400A **1800A**

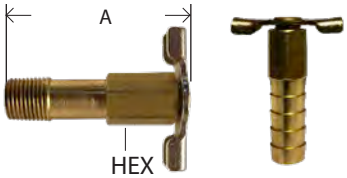
INTERNAL SEAT - WING NUT HANDLE



PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	LIST PRICE
46074	1/8"	130	0.92	0.40	0.04	---
46075	1/4"	140	0.94	0.56	0.06	---
46077	3/8"	230	1.27	0.68	0.08	---

HB - 5/16 **803** 305A

LONG INTERNAL SEAT



PART #	SIZE	IND #	A	HEX	APPROX. WT. LBS.	LIST PRICE
46078	1/8 MIP	1.85				---
46076	3/8" Hose I.D.		1.65	0.43	0.02	---

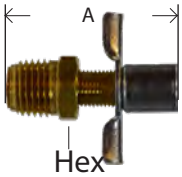
809

PIN HANDLE - INTERNAL SEAT

PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	LIST PRICE
46080	1/8"	M-200-P	1.22	0.50	0.04	---
46081	1/4"	M-201-P	1.31	0.56	0.06	---
46082	3/8"	M-202-P	1.53	0.68	0.12	---

DC603 **802**

EXTERNAL SEAT W/ SPOUT



PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	LIST PRICE
46084*	1/4"	6788	1.56	0.56	0.02	---

* Replaces GM # 511771 & Chrysler #836015

200A **239** DC606 **807**

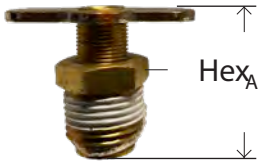
BIBB VALVE

PART #	MALE PIPE	INDUSTRY NUMBER	A	B*	C	APPROX. WT. LBS.	LIST PRICE
46088	1/8"	150	0.82	1.60	0.55	0.04	---
46089	1/4"	120	0.89	1.59	0.54	0.06	---
46089A	1/4"	6660	0.55	1.34	0.66	0.06	---

* With valve closed

804 **DC607** 2019 **201DH**

RADIATOR TYPE - EXTERNAL SEAT



PART #	MALE PIPE	INDUSTRY NUMBER	IND #	A	HEX	APPROX. WT. LBS.	LIST PRICE
46085	1/8"	M-320-P	135	0.90	0.43	0.02	---
46086	1/4"	M-321-P	145	1.00	0.56	0.04	---
46087	3/8"	M-322-P	270	1.25	0.68	0.08	---
46083	1/2"	108	108	1.48	0.87	0.12	---

320D **240** DC604 **801**

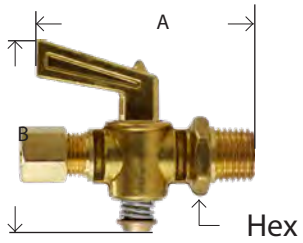
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SHUT-OFF COCKS

BRASS FITTINGS

- Designed for working pressure of 30 PSI.
- Forged brass bodies and brass handles.
- Instantaneous off-on operation with 360⁰ rotation.
- Not good for gasoline.

COMPRESSION X MALE PIPE

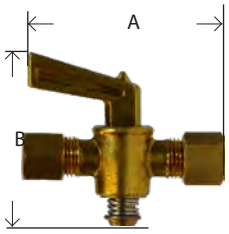


PART #	COMP X MALE PIPE	IND. #	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46130	1/4″ x 1/8″	27-C	1.87	1.81	0.51	0.14	---
46131	1/4″ x 1/4″	227-C	2.05	1.86	0.62	0.15	---
46132	5/16″ x 1/8″	29-C	2.05	1.90	0.50	0.16	---
46134	3/8″ x 1/4″	57-C	2.05	1.83	0.62	0.15	---

868 **V304C** 2068 **133C** VC206

COMPRESSION X COMPRESSION

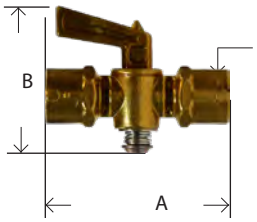
* See pg. 73-74 to order nut and sleeve separately.



PART #	COMP X COMP	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46140	1/4″	28-C	1.82	1.84	0.12	---
46141	5/16″	30-C	1.84	1.88	0.14	---
46142	3/8″	58-C	1.87	1.80	0.14	---
46143	1/2″	68-C	2.21	2.32	0.22	---

V3030F **2062** 134C

FEMALE X FEMALE PIPE

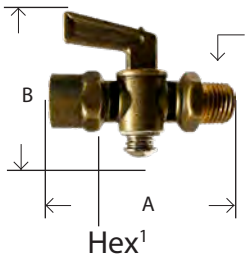


PART #	FEMALE PIPE X FEMALE PIPE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46151	1/8″	1.77	1.79	0.56	0.12	---
46152	1/4″	2.28	1.82	0.69	0.20	---
46152T*	1/4″	2.28	2.00	0.68	0.20	---
46153	3/8″	2.44	2.28	0.81	0.30	---

* 150 PSI

V403P **132C** 875

MALE PIPE X FEMALE

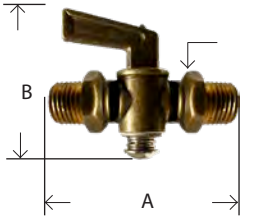


PART #	MALE PIPE X FEMALE PIPE	IND. #	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
46160	1/8″	48-P	2.03	1.84	0.50	0.56	0.14	---
46161	1/4″	49-P	2.26	1.79	0.69	0.69	0.18	---
46161T*	1/4″		2.26	1.98	0.69	0.69	0.20	---
46162	3/8″	50-P	2.33	2.28	0.82	0.82	0.28	---

* 150 PSI

880 **V402P** 130C

MALE PIPE X MALE PIPE



PART #	MALE PIPE X MALE PIPE	IND. #	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46165	1/8″	76-P	2.15	1.80	0.69	0.12	---
46166	1/4″	77-P	2.22	1.84	0.70	0.17	---
46166T*	1/4″		2.23	2.00	0.68	0.18	---
46167	3/8″	78-P	2.43	2.24	0.82	0.22	---

* 150 PSI

1V401P **890**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

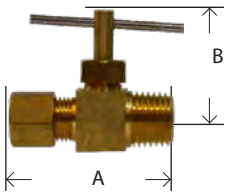
NEEDLE VALVES

THESE ARE NOT LEAD FREE SEE LEAD FREE SECTION FOR LEAD FREE PRODUCTS

Made with either pin handle or pressed on handle. Please specify if you have a preference.

- Used on instrumentation, hydraulic, and pneumatic systems.
- Designed for a maximum working pressure of 150 PSI. or
- Provided with steel handles and metal-to-metal seats with fine-thread screwdown.
- Not designed for natural gas, LPG, nuclear or aircraft applications.
- Always install with pressure against the seat.

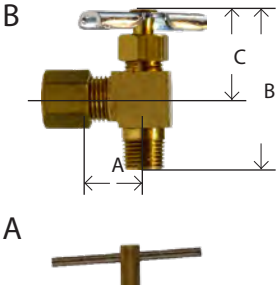
COMP X MALE PIPE



PART #	COMP X MALE PIPE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46002	1/4" x 1/8"	M-101-C	1.29	1.12	0.07	---
46003	1/4" x 1/4"	M-101-C	1.27	1.14	0.10	---

NV106C **2205** 820 **3068**

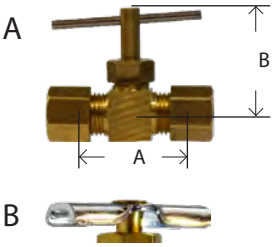
COMP X MALE PIPE-ANGLE



PART #	COMP X MALE PIPE	HAN-DLE	IND. #	A	B	C	APPROX. WT. LBS.	LIST PRICE
46011	1/4" x 1/8"	A	M-103-C	0.56	1.48	0.93	0.08	---
46011X	Heavy Pattern	B	M-103-C	0.53	1.53	0.83	0.08	---
46012	1/4" x 1/4"	B	M-104-C	0.62	1.67	0.90	0.13	---
46013	5/16" x 1/8"	B	M-104-C	0.63	1.63	0.95	0.10	---

NV104C **2203** 821 **3069**

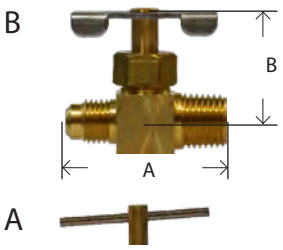
COMP X COMP



PART #	COMP X COMP	HAN-DLE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46020	3/16"	B	M-105-C	1.06	0.88	0.08	---
46021	1/4"	A	M-106-C	1.17	1.12	0.10	---
46022	5/16"	A	M-107-C	1.22	1.08	0.12	---
46023	3/8"	B	M-113-C	1.31	1.15	0.13	---

NV105C **3062** 2201 **822**

FLARE X MALE PIPE



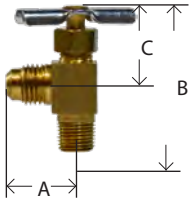
PART #	MALE FLARE X MALE PIPE	HAN-DLE	IND. #	A	B	AP-PROX. WT. LBS.	LIST PRICE
46028	1/4" x 1/8"	A	M-104-SAE	1.35	1.12	0.07	---
46029	1/4" x 1/4"	B	M-1040-SAE	1.38	0.88	0.09	---
46031	3/8" x 1/4"	B	M-108-SAE	1.73	1.22	0.18	---

NV103F **2405** 823 **3048**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NEEDLE VALVES
BRASS FITTINGS

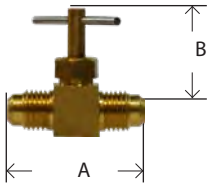
FLARE X MALE PIPE



PART #	MALE FLARE X MALE PIPE	IND. #	A	B	C	APPROX. WT. LBS.	LIST PRICE
46036	1/4" x 1/8"	M-103-SAE	0.68	1.54	0.86	0.08	---
46038	5/16" x 1/8"	M-203-SAE	0.88	1.59	0.94	0.11	---
46039	5/16" x 1/4"	M-204-SAE	0.90	1.94	1.00	0.14	---
46040	3/8" x 1/4"	M-303-SAE	0.95	1.86	0.90	0.17	---

NV101F **2403** 824 **3049**

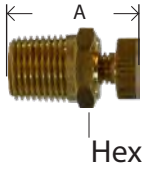
FLARE X FLARE



PART #	MALE FLARE X MALE FLARE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46045	1/4"	M-110-SAE	1.48	1.20	0.18	---
46046	3/8"	M-115-SAE	1.79	1.19	0.20	---

NV102F **3042** 825 **2401**

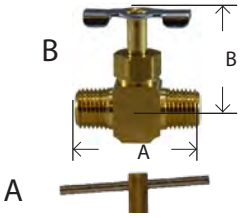
MULTI-PURPOSE AIR VENT



PART #	MALE PIPE	A	HEX	APPROX. WT. LBS.	LIST PRICE
46048	1/8"	0.78	0.43	0.02	---

705

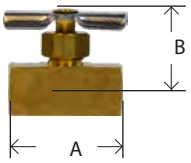
MALE PIPE TO MALE PIPE



PART #	MALE PIPE X MALE PIPE	HANDLE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46050	1/8"	A	M-108-P	1.25	1.09	0.08	---
46051	1/4"	B	M-110-P	1.69	1.00	0.16	---

NV107P **2301** 826 **3122**

FEMALE PIPE X FEMALE PIPE

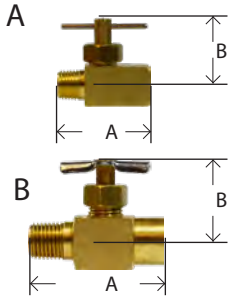


PART #	FEMALE PIPE X FEMALE PIPE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46055*	1/8"	M-304-P	1.18	0.84	0.18	---
46056	1/4"	M-3044-P	1.60	1.24	0.21	---
46056P*	1/4" Heavy	M-3044-P	1.62	2.53	0.20	---

* Pressed on handle

6800 **NV109P** 2304 **817** 3103

MALE X FEMALE PIPE



NBR seals -30°C to 120°C

PART #	MALE PIPE X FEMALE PIPE	HAN-DLE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46060	1/8"	A	M-305-P	1.18	1.09	0.10	---
46061	1/4'	A	M-3055-P	1.60	1.14	0.18	---
46061L	1/4" Light Pattern	B	M-3055-P	1.88	1.09	0.21	---

NV108P **2305** 818 **3120**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS TRUCK VALVES

- Used in heavy duty truck, trailer and mobile markets.
- Used on water, oil and coolant lines.
- Forged brass construction with steel handle.
- Temperature range -40° - 250°
- Max pressure 250 psi
- Metal to metal seats for high heat/ fluid compatibility
- Fine thread screw down to afford flow control ability and a positive seal.
- Not intended for natural gas, LPG, Nuclear or aircraft applications

200 PSI

TV44

BARB TO MALE PIPE

PART #	SIZE	LIST PRICE
46450	3/8 x 3/8	---
46451	5/8 x 3/8	---
46455	5/8 x 1/2	---
46457	3/4 x 3/8	---

404V

TV45

FEMALE TO MALE PIPE

PART #	SIZE	LIST PRICE
46465	3/8 x 3/8	---
46466	3/8 x 1/2	---

405V

TV49

1

2

FLARE TO MALE PIPE

PART #	SIZE	LIST PRICE
46475	1/2 x 1/2	---

409V

TV412

MIP X FLARE

PART #	SIZE	LIST PRICE
46485	1/2 x 5/8	---

SOLID BOTTOM VALVES

- Designed for instantaneous on-off operation.
- 360⁰ rotation standard.
- 30 PSI
- Packed with grease.

8875

O-RING SEALED MIP X FIP

PART #	SIZE	LIST PRICE
46400	1/8	---
46401	1/4	---

1035D **M-70-SBV**

- Good for Propane

#M-72-SBV
FIP X FIP

PART #	SIZE	LIST PRICE
46411	1/4	---

SOLID BOTTOM FUEL VALVES

- Approved for use on Motorcraft fuel lines.
- Pointer lever.
- 90⁰ turn stop mechanism to assure positive location of the on and off positions.
- Corrosion proofed internal construction assures maximum salt atmosphere protection.
- Port hole is 1/4 (.250) diameter.
- UL listed for use in fuel oils no. 1 & no. 2, LP gas and utility gas.

PIPE MALE X FEMALE

PART #	SIZE	LIST PRICE
46400M	1/8 x 1/8	---
46401M	1/4 x 1/4	---

8980

PIPE
MALE X MALE

PART #	SIZE	LIST PRICE
46406M	1/4 x 1/4	---

- Good for Propane

PIPE FEMALE X FEMALE

8975

MALE PIPE X FLARE

PART #	SIZE	LIST PRICE
46429M	1/4 x 3/8	---
46430M	3/8 x 3/8	---

8948

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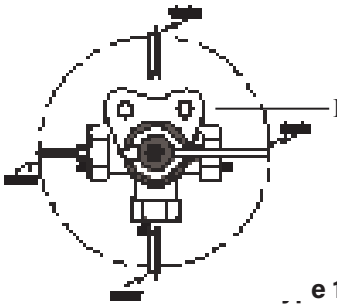
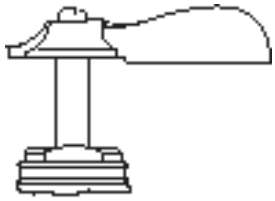
SPECIALTY VALVES
BRASS FITTINGS

GROUND PLUG SHUT-OFF COCKS

NON-LUBRICATED PLUG VALVES are designed to operate in systems where INSTANTANEOUS PORT SELECTION is desired. Since LUBRICANTS ARE NOT USED, relubrication is not required. There is no lubricant to freeze and lock the valve or to contaminate fine fluids. The O-RING SEALED CAP and STEM eliminate leakage to atmosphere. The mating BRASS BODY and CELCON PLUG produce a fine seal that WILL NOT SEIZE OR GALL.

Designed for PANEL or BRACKET MOUNTING. They are generally recommended for operation in GASOLINE, OIL, AIR, WATER and DETERGENT systems from minus 40^0 to 180^{0}F, at a maximum operating pressure of 30 p.s.i.g. The fluid port size is 9/32 (.281) diameter for 1/8 and 1/4 sizes, 5/16 (.312) diameter for the 3/8 size. **(Consult factory for applications**

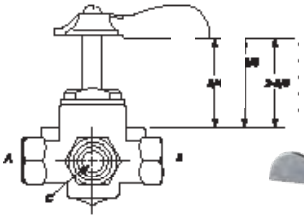




PANEL MOUNTING AVAILABLE

e 1 (Standard)
A pronounced "click" may be felt at each position.

THREE-WAY VALVES (Side Outlet)



- 1-3/8" Stem
- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard

LESS CLICK

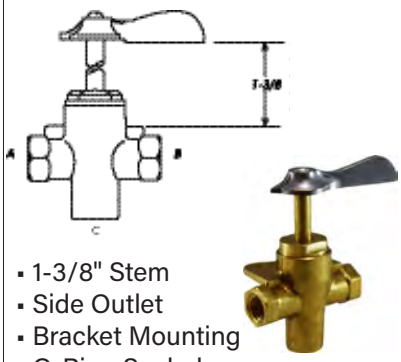
PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	
46247	1/4	1-3/8"	---
46248	3/8	1-3/8"	---

M-108-MID WITH CLICK 360^0

PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	
46250	1/8	1-3/8"	---
46251	1/4	1-3/8"	---
46252	3/8	1-3/8"	---

V406P 6749

THREE-WAY VALVES (Bottom Outlet)



- 1-3/8" Stem
- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard

LESS CLICK

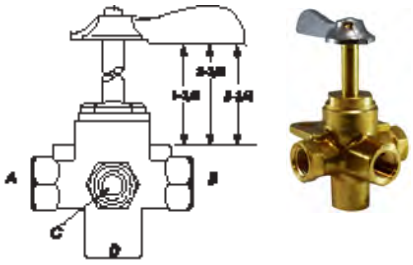
PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	LIST
46241	1/4	1-3/8"	---

WITH CLICK 360^0

PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	LIST
46243	1/8	1-3/8"	---
46244	1/4	1-3/8"	---

Openings:
Handle *Pointer* over A.....Valve Open A-C
Handle *Pointer* over B.....Valve Open B-C
Handle *Pointer* over Bracket.....Valve "OFF"

FOUR-WAY VALVES



- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard

LESS CLICK

PART #	A-B-C-D FEMALE PIPE THREAD	LENGTH OF STEM	LIST
46257	1/4	1-3/8"	---

M-114-MID WITH CLICK (360^0)

PART #	A-B-C-D FEMALE PIPE THREAD	LENGTH OF STEM	
46255	1/4	1-3/8"	---
46256	3/8	1-3/8"	---

WITH 2-3/8" LONG STEM M-115-MID

Part #	A-B-C-D Female Pipe Thread	Length of Stem	List Price
46260	1/4	2-3/8"	---

Openings:
Handle *Pointer* over A.....Valve Open A-D
Handle *Pointer* over C.....Valve Open C-D
Handle *Pointer* over B.....Valve Open B-D
Handle *Pointer* over Bracket.....Valve "OFF"

Openings:
Handle Pointer over A.....Valve Open A-C
Handle Pointer over C.....Valve Open B-C
Handle Pointer over B.....Valve "OFF"
Handle Pointer over Bracket.....Valve "OFF"

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▪ Calibrated to support 30" column of gasoline.

BRASS ANTI-SIPHON VALVES

PART #	SIZE	LIST PRICE
46520	1/4 x 1/4	---
46521	3/8 x 3/8	---

ALUMINUM

PART #	SIZE	LIST PRICE
46520A	1/4 x 1/4	---

▪ Flo direction <-

BRASS ANTI-SIPHON VALVES
BARB X NPT

PART #	SIZE	LIST PRICE
46529	1/4 x 1/4	---
46530	5/16 x 1/4	---
46531	3/8 x 1/4	---
46532	3/8 x 3/8	---

ALUMINUM

PART #	SIZE	LIST PRICE
46530A	5/16 x 1/4	---
46531A	3/8 x 1/4	---
46532A	3/8 x 3/8	---

MINI BALL VALVE - BRASS W/ SS HANDLE AND NUT

PART #	BARB X MIP	LIST PRICE
46986	5/6 x 1/4	---
46987	3/8 x 1/4	---
46988	3/8 x 3/8	---
46989	1/2 x 1/2	---

- NBR O-Ring
- Working temp 180°F
- 3,000 PSI
- Brass or Aluminum
- #316 Ball & Spring

MALE MIP X FEMALE FIP BRASS

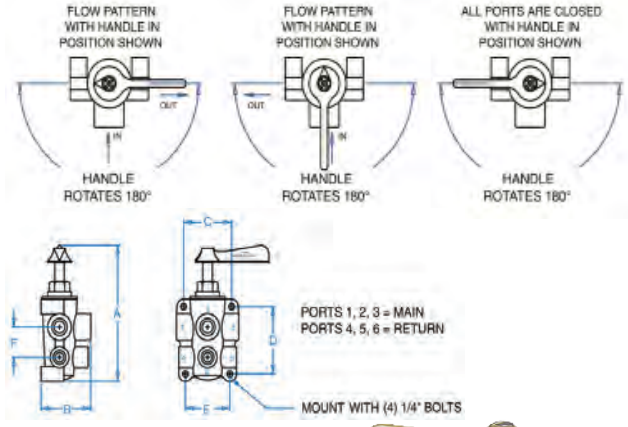
PART #	SIZE	LIST PRICE
46523	1/4	---

ALUMINUM

PART #	SIZE	LIST PRICE
46523A	1/4	---

FLARE X MIP - BRASS

SIX PORT VALVES



Six port fuel valves are used where 2 tanks supply a single engine, and a return to each supply tank is required.

ABYC H33.9.2 states that fuel system valves must have an independent means of support, so in-line valves are not

PART #	IND. #	FEMALE PIPE THREAD OF 1-2-3 4-5-6	STEM	LENGTH TYPE	LIST PRICE
46237	SK-1036	1/2 x 3/8	13/16	1	---

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MINIATURE BALL VALVES
BRASS FITTINGS

BRASS MINIATURE BALL VALVES

- Working Pressure up to 1000 P.S.I.G.
- ASTM B-16 Corrosion Resistant Brass Body.
- Non-Adjusting Viton O-Ring Stem Seal Design Never Needs Tightening.
- Highly Inert Teflon Seats.
- Long Life Nickel Plated Brass Ball.
- Blow-Out Proof Stem for Safety.
- Temperature: -40°F to 300°F
- 1/4 Turn Instantaneous On-Off Operation.
- Quarter Turn Handle Design.
- Water, Oil, and Air Pressure Systems.
- Ideal for tight, confined areas, or when routing aesthetics are desired. Applications

MALE X FEMALE

PART #	SIZE	LIST PRICE
46900	1/8 x 1/8	---
46903	1/4 x 1/4	---

MALE X MALE

PART #	SIZE	LIST PRICE
46910	1/8 x 1/8	---
46912	1/4 x 1/4	---

MALE PIPE X HOSE BARB

PART #	SIZE	LIST PRICE
47042	1/8 x 1/4	---
46980	1/4 x 1/4	---
46981	1/4 x 3/8	---

FEMALE X FEMALE

PART #	SIZE	LIST PRICE
46920	1/8 x 1/8	---
46921	1/8 x 1/4	---

PART #	SIZE	LIST PRICE
46922A	1/4 x 1/4	---
46923	3/8 x 3/8	---

PART #	SIZE	LIST PRICE
46924	1/2 x 1/2	---
46925	3/4 x 3/4	---

U.L. TWO WAY VALVES

- Buna-N Seal, Teflon Seat Plated metal handle, plated brass ball.

U.L. TWO WAY VALVES

PART #	SIZE	LIST PRICE
46440	1/4 x 1/4	---

U.L. TWO WAY VALVES

PART #	SIZE	LIST PRICE
46443	1/4 x 1/4	---

PANEL MOUNT BRASS BALL VALVES

- Working pressure: 1500 psi wog for 1/8" to 1/4", 1000 psi wog for 3/8" to 1/2"
- Vacuum rating: 29.92" Hg
- Working temp: -40°F to +300°F
- Panel mount hole is 9/16" Dia.
- Brass body cap, PTFE ball seats, Viton stem sealing, Brass chrome

FEMALE X FEMALE

PART #	SIZE	LIST PRICE
46830	1/8 x 1/8	---
46832	1/4 x 1/4	---
46833	3/8 x 3/8	---
46834	1/2 x 1/2	---

FEMALE X FEMALE

PART #	SIZE	LIST PRICE
46875	1/8 x 1/8	---
46878	1/4 x 1/4	---

PART #	SIZE	LIST PRICE
46951	1/8 FPT	---
46956	1/4 FPT	---

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BRASS CHECK VALVES

- 500 PSI ▪1 PSI Cracking Pressure
- Buna-N Seal for water, air & inert gas
- **Viton Seal for oil, gas & diesel fuel**

- 180° temp rating

FIP X FIP BUNA-N

PART #	SIZE	LIST PRICE
46560	1/8"	---
46561	1/4"	---
46562	3/8"	---
46563	1/2"	---
46564	3/4"	---

FIP X FIP VITON

PART #	SIZE	LIST PRICE
46560V	1/8"	---
46561V	1/4"	---
46562V	3/8"	---
46563V	1/2"	---
46564V	3/4"	---

FEMALE X MALE BUNA-N

PART #	SIZE	LIST PRICE
46565	1/8"	---
46566	1/4"	---
46567	3/8"	---
46568	1/2"	---
46569	3/4"	---

MALE X MALE

PART #	SIZE	LIST PRICE
46570	1/8"	---
46571	1/4"	---
46572	3/8"	---
46573	1/2"	---

MALE X FEMALE

PART #	SIZE	LIST PRICE
46575	1/8"	---
46576	1/4"	---
46577	3/8"	---
46578	1/2"	---

HIGH PRESSURE CHECK VALVES

MAX. 2500 PSI
Cracking Pressure 1 PSI

- Opening diameter .187
- 180⁰ max operating temp.
- •SS ball and spring

CV = 0.4

MNPT X MNPT

PART #	SIZE	OPENING DIA.	LIST PRICE
46500	1/4 x 1/4	0.187	---

MAX. 2500 PSI

- Flo direction ->
- Opening diameter .187
- 180⁰ max operating temp.
- Buna Seal
- •SS ball and spring

MNPT X FNPT

PART #	SIZE	OPENING DIA.	LIST PRICE
46505	1/4 x 1/4	0.187	---

MAX. 1200 PSI

- O-Ring poppet seal Bubble tight operation
- 180°F max operating temp.

FNPT X FNPT

PART #	SIZE	OPENING DIA.	LIST PRICE
46510	1/4 x 1/4	0.25	---
46511	3/8 x 3/8	0.375	---
46512	1/2 x 1/2	0.437	---

PNEUMATIC CHECK VALVES

- Max Operating Pressure: 220 psi
- Working Pressure: 14.5-145 psi
- Cracking Pressure: 2.8 psi
- Maximum Temperatures: 140° F

Body	Chrome plated Brass
Spring	Steel
O-Ring	NBR Rubber

NPT- Inlet NPSM - Outlet

PART #	SIZE	DIMENSIONS (IN.) A	DIMENSIONS (IN.) B	LIST PRICE
46-200	1/4	1.97	0.67	
46-201	3/8	1.97	0.83	
46-202	1/2	2.48	0.98	

HIGH PRESSURE CHECK VALVES

- Operates in any position, and is available in mixed or matched end combinations.
- Standard cracking pressure 1 p.s.i with a maximum operating pressure of 3000 p.s.i. and a maximum operating temperature of 180°F using Buna-N seals.
- Buna-N seals standard, other seals available.
- Guided 316 stainless steel ball + spring.
- Fixed ringed seat prevents extrusion of seal.
- Opening diameter .28
- Approximate CV 1.2
- Water G.P.M. @ 10 p.s.i. is 4.0
- Good for air

FEMALE X FEMALE

PART #	SIZE	LIST PRICE
46513	1/4	---

FEMALE X MALE

PART #	SIZE	LIST PRICE
46514	1/4	---

MALE X FEMALE

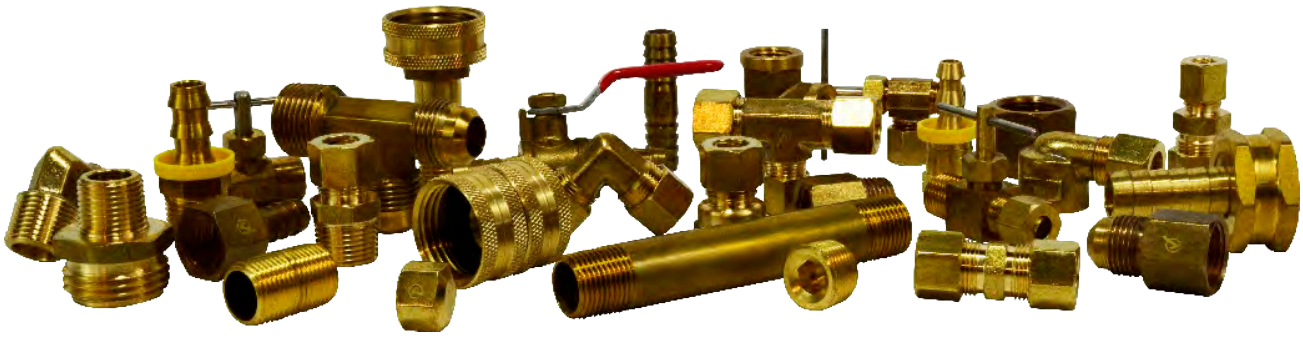
PART #	SIZE	LIST PRICE
46516	1/4	---

MALE X MALE

PART #	SIZE	LIST PRICE
46515	1/4	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LEAD FREE



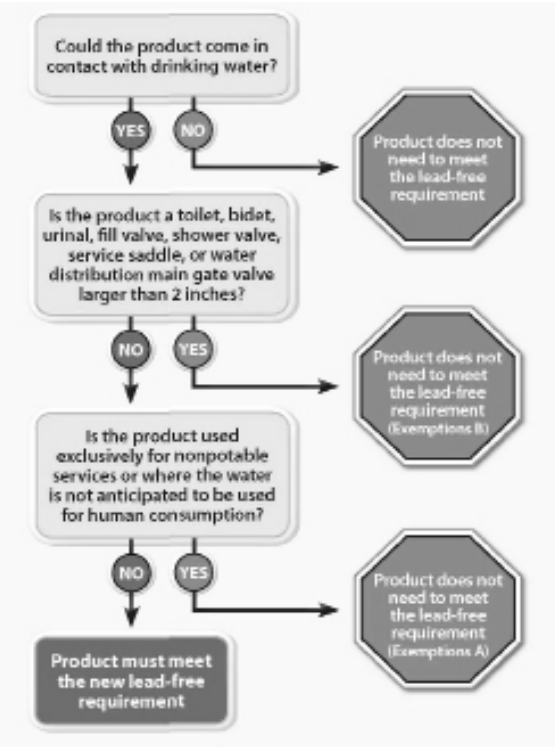
What is the new lead-free requirement?

In 2011, the Reduction of Lead in Drinking Water Act was signed into law. The Act has reduced the lead content allowed in drinking water system and plumbing materials by changing the definition of "lead-free" in Section 1417of the Safe Drinking Water Act.

The term "lead-free" has been updated from notmore that 8% lead content to mean ***"not more than a weighted average of 0.25% lead when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings and fixtures."***

How do I know which products must meet the new lead-free requirement?

The prohibitions on use and introduction into commerce apply to all pipe, pipe fittings, plumbing fittings, and fixtures (henceforth reffered to as "products"), including stocked inventories that have not been installed. This includes coated or uncoated brass or bronze materials. By using the flowchart below as a guide, you can determine if a product must meet the new lead-free requirement:



Lead-Free Requirement Exemptions

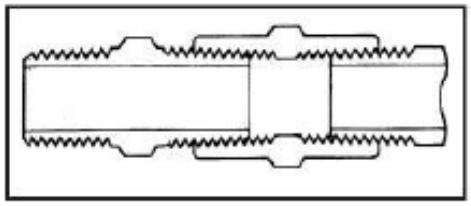
(A) The new requirement does not apply to pipes, pipe fittings, plumbing fittings, or fixtures, including backflow preventers, that are used exclusively for nonpotable service such as manufacturing, industrial processing, irrigation, outdoor watering or any other uses where the water is not anticipated to be used for human consumption.

(B) The new requirement does not apply to toilets, bidets, urinals, fill valves, flushometer valves, tub fillers, shower valves, service saddles or water distribution main gate valves 2 inches in diameter or larger.

LEAD FREE PIPE
LEAD FREE BRASS FITTINGS

BRASS PIPE FITTINGS LEAD FREE

- One piece construction, available in barstock or forgings
- Used with brass or steel pipe
- All pipe threads are "American Standard Taper Pipe Threads"
- Fair vibration resistance
- Used in low to medium pressure applications
- Teflon tape or pipe sealant is recommended
- Pipe threads should be tightened 2 1/2 turns past finger tight



Nominal Pipe Size	1/8	1/4	3/8	1/2	3/4	1
Thread size	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11 1/2
Approx. Diameter in inches	3/8"	1/2"	5/8"	3/4"	1"	1-3/8"

BRASS PIPE FITTINGS

ELBOW 90° BARSTOCK

LF100

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706100-02	28001LF	---	1/8"	LF100-2	
706100-04	28002LF	---	1/4"	LF100-4	
706100-06	28003LF	---	3/8"	LF100-6	
706100-08	28004LF	---	1/2"	LF100-8	
706100-12	28005LF	---	3/4"	LF100-12	

ELBOW 90° FORGED

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706200-02	28009LF	---	1/8"		
706200-04	28010LF	---	1/4"		
706200-06	28011LF	---	3/8"		
706200-08	28012LF	---	1/2"		
706200-12	28013LF	---	3/4"		

REDUCING ELBOW FORGED

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706205-0604	28015LF	---	3/8" x 1/4"	LF100R-64	

ELBOW 45°

LF10045

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706107-02	28018LF	---	1/8"		
706107-04	28019LF	---	1/4"		

LEAD FREE PIPE

LEAD FREE BRASS FITTINGS

TEE BARSTOCK

LF101

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706101-02	28024LF	---	1/8"	LF101-2	
706101-04	28025LF	---	1/4"	LF101-4	
706101-06	28026LF	---	3/8"	LF101-6	
706101-08	28027LF	---	1/2"	LF101-8	
706101-12	28028LF	---	3/4"	LF101-12	

TEE FORGED

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706201-02	28032LF	---	1/8"		
706201-04	28033LF	---	1/4"		
706201-06	28034LF	---	3/8"		
706201-08	28035LF	---	1/2"		
706201-12	28036LF	---	3/4"		

REDUCING TEE FORGED

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706206-060604	28039LF	---	3/8"x3/8"x1/4"		

CROSS BARSTOCK

LF102

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706102-02	28041LF	---	1/8"	LF102-2	
706102-04	28042LF	---	1/4"	LF102-4	
706102-06	28043LF	---	3/8"	LF102-6	
706102-08	28044LF	---	1/2"	LF102-8	
706102-12	28045LF	---	3/4"	LF102-12	

COUPLING

LF103

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706103-02	28058LF	---	1/8"	LF103-2	
706103-04	28059LF	---	1/4"	LF103-4	
706103-06	28060LF	---	3/8"	LF103-6	
706103-08	28061LF	---	1/2"	LF103-8	
706103-12	28062LF	---	3/4"	LF103-12	

X-HEAVY COUPLING

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
			1/8"	LF23300X2	
706303-04	28059EHLF	---	1/4"	LF23300X4	
			3/8"	LF23300X6	
			1/2"	LF23300X8	

LEAD FREE PIPE

LEAD FREE BRASS FITTINGS

UNION

LF104

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706104-02	28067LF	---	1/8"	LF104-2	
706104-04	28068LF	---	1/4"	LF104-4	
706104-06	28069LF	---	3/8"	LF104-6	
706104-08	28070LF	---	1/2"	LF104-8	
706104-12	28071LF	---	3/4"	LF104-12	

CAP

LF108

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706108-02	28075LF	---	1/8"	LF108-2	
706108-04	28076LF	---	1/4"	LF108-4	
706108-06	28077LF	---	3/8"	LF108-6	
706108-08	28078LF	---	1/2"	LF108-8	
706108-12	28079LF	---	3/4"	LF108-12	

PLUG CORED SQUARE HEAD

LF

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706109-02	28084LF	---	1/8"	LF109-2	
706109-04	28085LF	---	1/4"	LF109-4	
706109-06	28086LF	---	3/8"	LF109-6	
706109-08	28087LF	---	1/2"	LF109-8	
706109-12	28088LF	---	3/4"	LF109-12	
			1"	LF109-16	

PLUG SOLID SQUARE HEAD

LF109SD

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706114-02	28084SLF	---	1/8"	LF109SD-2	
706114-04	28085SLF	---	1/4"	LF109SD-4	
706114-06	28086SLF	---	3/8"	LF109SD-6	
706114-08	28087SLF	---	1/2"	LF109SD-8	
706114-12	28088SLF	---	3/4"	LF109SD-12	
			1"	LF109SD-16	
			1 ¼"	LF109SD-20	
			1 ½"	LF109SD-24	
			2"	LF109SD-32	

COUNTERSUNK PLUG HEX

LF109AL

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706115-02	28093LF	---	1/8"	LF109AL-2	
706115-04	28094LF	---	1/4"	LF109AL-4	
706115-06	28095LF	---	3/8"	LF109AL-6	
706115-08	28096LF	---	1/2"	LF109AL-8	
706115-12	28097LF	---	3/4"	LF109AL-12	

LEAD FREE PIPE
LEAD FREE BRASS FITTINGS

LEAD FREE

FACE BUSHING

LF110F

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706140-0402	28121LF	---	1/4" x 1/8"	LF110F-42	
			3/8" x 1/8"	LF110F-62	
706140-0604	28116LF	---	3/8" x 1/4"	LF110F-64	
			1/2" x 1/4"	LF110F-84	
706140-0806	28117LF	---	1/2" x 3/8"	LF110F-86	
			3/4" x 1/4"	LF110F-124	
			3/4" x 3/8"	LF110F-126	
706140-1208	28118LF	---	3/4" x 1/2"	LF110F-128	
			1" x 3/4"	LF110F-1612	

PLUG CORED HEX HEAD

LF121

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706121-02	28201LF	---	1/8"	LF121-2	
706121-04	28202LF	---	1/4"	LF121-4	
706121-06	28203LF	---	3/8"	LF121-6	
706121-08	28204LF	---	1/2"	LF121-8	
706121-12	28205LF	---	3/4"	LF121-12	
			1"	LF121-16	

PLUG SOLID HEX HEAD

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706125-02	28201SLF	---	1/8"	LF121S-2	
706125-04	28202SLF	---	1/4"	LF121S-4	
706125-06	28203SLF	---	3/8"	LF121S-6	
706125-08	28204SLF	---	1/2"	LF121S-8	
			3/4"	LF121S-12	
			1"	LF121S-16	

HEX BUSHING

LF110

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706110-0402	28102LF	---	1/4" x 1/8"	LF110-42	
706110-0602	28103LF	---	3/8" x 1/8"	LF110-62	
706110-0604	28104LF	---	3/8" x 1/4"	LF110-64	
706110-0802	28105LF	------	1/2" x 1/8"	LF110-82	
706110-0804	28106LF	---	1/2" x 1/4"	LF110-84	
706110-0806	28107LF	---	1/2" x 3/8"	LF110-86	
706110-1202	28108LF	---	3/4" x 1/8"	LF110-122	
706110-1204	28109LF	---	3/4" x 1/4"	LF110-124	
706110-1206	28110LF	---	3/4" x 3/8"	LF110-126	
706110-1208	28111LF	---	3/4" x 1/2"	LF110-128	
			1" x 1/8"	LF110-162	
706110-1604	28112LF	---	1" x 1/4"	LF110-164	
706110-1606	28113LF	---	1" x 3/8"	LF110-166	
706110-1608	28114LF	---	1" x 1/2"	LF110-168	
706110-1612	28115LF	---	1" x 3/4"	LF110-1612	

LEAD FREE PIPE

LEAD FREE BRASS FITTINGS

CLOSE NIPPLE

LF112

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706112-02	28131LF	---	1/8"	LF112-2	
706112-04	28132LF	---	1/4"	LF112-4	
706112-06	28133LF	---	3/8"	LF112-6	
706112-08	28134LF	---	1/2"	LF112-8	
706112-12	28135LF	---	3/4"	LF-112-12	

LONG NIPPLE

LF113

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706113-0224	28140LF	---	1/8" x 1-1/2"	LF113-224	
706113-0232	28141LF	---	1/8" x 2"	LF113-232	
706113-0240	28142LF	---	1/8" x 2-1/2"	LF113-240	
706113-0248	28143LF	---	1/8" x 3"	LF113-248	
706113-0424	28144LF	---	1/4" x 1-1/2"	LF113-424	
706113-0432	28145LF	---	1/4" x 2"	LF113-432	
706113-0440	28146LF	---	1/4" x 2-1/2"	LF113-440	
706113-0448	28147LF	---	1/4" x 3"	LF113-448	
706113-0624	28148LF	---	3/8" x 1-1/2"	LF113-624	
706113-0632	28149LF	---	3/8" x 2"	LF113-632	
	28150LF	---	3/8" x 2-1/2"	LF113-640	
			3/8" x 3"	LF113-648	
			1/2" x 1-1/2"	LF113-824	
			1/2" x 2"	LF113-832	
			1/2" x 2-1/2"	LF113-840	
			1/2" x 3"	LF113-848	

HEX NIPPLE

LF23325X
LF122

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706122-02	28211LF	---	1/8"	LF122-2	
706122-04	28212LF	---	1/4"	LF122-4	
706122-06	28213LF	---	3/8"	LF122-6	
706122-08	28214LF	---	1/2"	LF122-8	
706122-12	28215LF	---	3/4"	LF122-12	
706122-16	28216LF	---	1"	LF122-16	
			1-1/4"	LF122-20	
			1-1/2"	LF122-24	
			2"	LF122-32	

LONG HEX NIPPLE

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
			1/8"	LF23325X2	
28212EHLF			1/4"	LF23325X4	
			3/8"	LF23325X6	
			1/2"	LF23325X8	

LEAD FREE PIPE

LEAD FREE BRASS FITTINGS

REDUCING HEX NIPPLE

LF123

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706123-0402	28220LF	---	1/4" x 1/8"	LF123-42	
706123-0602	28221LF	---	3/8" x 1/8"	LF123-62	
706123-0604	28222LF	---	3/8" x 1/4"	LF123-64	
706123-0804	28223LF	---	1/2" x 1/4"	LF123-84	
706123-0806	28224LF	------	1/2" x 3/8"	LF123-86	
706123-1208	28225LF	---	3/4" x 1/2"	LF123-128	

REDUCING COUPLING

LF119

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706119-0402	28181LF	------	1/4" x 1/8"	LF119-42	
706119-0602	28182LF	---	3/8" x 1/8"	LF119-62	
706119-0604	28183LF	---	3/8" x 1/4"	LF119-64	
706119-0802	28180LF	---	1/2" x 1/8"	LF119-82	
706119-0804	28184LF	---	1/2" x 1/4"	LF119-84	
706119-0806	28185LF	---	1/2" x 3/8"	LF119-86	
			3/4" x 3/8"	LF119-126	
706119-1208	28189LF	---	3/4" x 1/2"	LF119-128	

ADAPTER

LF120

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706120-0202	28190LF	---	1/8" x 1/8"	LF120-22	
706120-0402	28191LF	---	1/4" x 1/8"	LF120-42	
706120-0404	28192LF	---	1/4" x 1/4"	LF120-44	
706120-0602	28198LF	---	3/8" x 1/8"	LF120-62	
706120-0604	28193LF	---	3/8" x 1/4"	LF120-64	
706120-0606	28194LF	---	3/8" x 3/8"	LF120-66	
			1/2" x 1/8"	LF120-82	
706120-0804	28199LF	---	1/2" x 1/4"	LF120-84	
706120-0806	28195LF	---	1/2" x 3/8"	LF120-86	
706120-0808	28196LF	---	1/2" x 1/2"	LF120-88	
			3/4" x 3/8"	LF120-126	
706120-1208	28208LF	---	3/4" x 1/2"	LF120-128	
706120-1212	28209LF	---	3/4" x 3/4"	LF120-1212	
			1" x 3/4"	LF120-1612	

SHORT BARSTOCK* STREET ELBOW 90°

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706116-02	28156SLF	---	1/8"		
706116-04	28157SLF	---	1/4"		
706116-06	28158SLF	---	3/8"		
706116-08	28159SLF	---	1/2"		
706116-12	28160SLF	---	3/4"		

LEAD FREE PIPE

LEAD FREE BRASS FITTINGS

BARSTOCK* ST ELBOW

LF116

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706118-02	28156LF	---	1/8"	LF116-2	
706118-04	28157LF	---	1/4"	LF116-4	
706118-06	28158LF	---	3/8"	LF116-6	
	28159LF	---	1/2"	LF116-8	
	28160LF	---	3/4"		

FORGED* STREET ELBOW 90°

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706216-02	28165LF	---	1/8"		
706216-04	28166LF	---	1/4"		
706216-06	28167LF	---	3/8"		
706216-08	28168LF	---	1/2"	LF116F-8	
706216-12	28169LF	---	3/4"	LF116F-12	

FORGED* REDUCING STREET ELBOW

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706228-0402	28261LF	---	1/4" x 1/8"	LF128-42	
706228-0406	28262LF	---	1/4" x 3/8"		
706228-0608	28264LF	---	3/8" x 1/2"	LF128-68	
706228-0806	28265LF	---	1/2" x 3/8"	LF128-86	

* Forged and Barstock shapes may be substituted for one another in Lead Free.

STREET ELBOW 45°

LF124

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706124-02	28230LF	---	1/8"	LF124-2	
706124-04	28231LF	---	1/4"	LF124-4	
706124-06	28232LF	---	3/8"	LF124-6	
706124-08	28233LF	---	1/2"	LF124-8	
706124-12	28234LF	---	3/4"		

STREET TEE BARSTOCK

LF127

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706127-02	28245LF	---	1/8"	LF127-2	
706127-04	28246LF	---	1/4"	LF127-4	
706127-06	28247LF	---	3/8"	LF127-6	
706127-08	28248LF	---	1/2"	LF127-8	
706127-12	28249LF		3/4"	LF127-12	

STREET TEE FORGED

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706227-02	28253LF	---	1/8"		
706227-04	28254LF	---	1/4"		
706227-06	28255LF	---	3/8"		

LEAD FREE PIPE/LEAD FREE PUSH-ON

LEAD FREE BRASS FITTINGS

LEAD FREE

ELBOW BARSTOCK

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706130-02	28266BLF	---	1/8"	LF23455X2	
706130-04	28267BLF	---	1/4"	LF23455X4	
706230-06	28268LF	---	3/8"		

ELBOW FORGED

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706230-02	28266LF	---	1/8"		
706230-04	28267LF	---	1/4"		
706230-06	28268LF	---	3/8"		
706230-08	28269LF	---	1/2"		

REDUCING ELBOW

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706235-0402	28273LF	---	1/4" x 1/8"		
706235-0602	28272LF	---	3/8" x 1/8"		
706235-0604	28275LF	---	3/8" x 1/4"		
706235-0806	28276LF	---	1/2" x 3/8"		

TEE BARSTOCK

LF131

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706131-02	28281LF	---	1/8"	LF131-2	
706131-04	28282LF	---	1/4"	LF131-4	
706131-06	28283LF	---	3/8"	LF131-6	
706131-08	28284LF	---	1/2"	LF131-8	

TEE FORGED

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
706232-02	28290LF	---	1/8"		
706232-04	28291LF	---	1/4"		
706232-06	28292LF	---	3/8"		

PUSH-ON

MALE ADAPTER

AMC	MIDLAND	LIST	HOSE I.D. X MALE NPTF	MAF #	MAF PRICE
707201-0402	30200LF	---	1/4" x 1/8"		
707201-0404	30201LF		1/4" x 1/4"		
707201-0604	30203LF	------	3/8" x 1/4"		
707201-0606	30204LF	---	3/8" x 3/8"		
707201-0608	30206LF	---	1/2" x 3/8"		
707201-0808	30207LF	---	1/2" x 1/2"		

SAE/JIC DUAL 45°/37° FEMALE SWIVEL

AMC	MIDLAND	LIST	HOSE I.D. X FEMALE 45°/37°	MAF #	MAF PRICE
707210-0404	30230LF		1/4" x 1/4"		

LEAD FREE PIPE HOSE BARBS

LEAD FREE BRASS FITTINGS

BRASS HOSE BARBS LEAD FREE

- One piece, except swivels (nut and stem)
- Used with plastic tubing or rubber hose
- -40° to 200° F. temperature range
- Intended for use with hose clamp or crimp type ferrule
- Barbed edges provide positive connection
- Excellent vibration resistance
- Barb size is hose I.D.

RIGID MALE ADAPTER

LF29

AMC	MIDLAND	LIST	HOSE I.D. X MALE NPTF	MAF	MAF PRICE
707001-0202	32001LF	---	1/8" x 1/8"	LF29-22	
707001-0204	32027LF	---	1/8" x 1/4"	LF29-24	
707001-0302	32002LF	---	3/16" x 1/8"	LF29-32	
707001-0304	32003LF	---	3/16" x 1/4"	LF29-34	
707001-0402	32004LF	---	1/4" x 1/8"	LF29-42	
707001-0404	32005LF	---	1/4" x 1/4"	LF29-44	
707001-0406	32006LF	---	1/4" x 3/8"	LF29-46	
707001-0408	32007LF	---	1/4" x 1/2"	LF29-48	
	32954LF	---	1/4" x 3/4"	LF29-42	
707001-0502	32008LF	---	5/16" x 1/8"	LF29-52	
707001-0504	32009LF	---	5/16" x 1/4"	LF29-54	
707001-0506	32010LF	---	5/16" x 3/8"	LF29-56	
707001-0602	32011LF	---	3/8" x 1/8"	LF29-62	
707001-0604	32012LF	---	3/8" x 1/4"	LF29-64	
707001-0606	32013LF	---	3/8" x 3/8"	LF29-66	
707001-0608	32014LF	---	3/8" x 1/2"	LF29-68	
707001-0612	32026LF	---	3/8" x 3/4"	LF29-612	
707001-0804	32015LF	---	1/2" x 1/4"	LF29-84	
707001-0806	32016LF	---	1/2" x 3/8"	LF29-86	
707001-0808	32017LF	---	1/2" x 1/2"	LF29-88	
707001-0812	32018LF	---	1/2" x 3/4"	LF29-812	
707001-1006	32019LF	---	5/8" x 3/8"	LF29-106	
707001-1008	32020LF	---	5/8" x 1/2"	LF29-108	
707001-1012	32021LF	---	5/8" x 3/4"	LF29-1012	
707001-1206	32306LF	---	3/4" x 3/8"	LF29-126	
707001-1208	32022LF	---	3/4" x 1/2"	LF29-128	
707001-1212	32023LF	---	3/4" x 3/4"	LF29-1212	
707001-1612	32024LF	---	1" x 3/4"	LF29-1612	
707001-1616	32025LF	---	1" x 1"	LF29-1616	

LEAD FREE HOSE BARBS

LEAD FREE BRASS FITTINGS

RIGID FEMALE ADAPTER

LF29F

AMC	MIDLAND	LIST	HOSE I.D. X FEMALE NPTF	MAF	MAF PRICE
707002-0202	32050LF	---	1/8" x 1/8"	LF29F-22	
707002-0204	32317LF	---	1/8" x 1/4"	LF29F-24	
707002-0302	32051LF	---	3/16" x 1/8"	LF29F-32	
707002-0304	32062LF	---	3/16" x 1/4"	LF29F-34	
707002-0402	32052LF	---	1/4" x 1/8"	LF29F-42	
707002-0404	32053LF	---	1/4" x 1/4"	LF29F-44	
707002-0406	32054LF	---	1/4" x 3/8"	LF29F-46	
	32441LF	---	1/4" x 1/2"	LF29F-48	
707002-0502	32055LF	---	5/16" x 1/8"	LF29F-52	
707002-0504	32056LF	---	5/16" x 1/4"	LF29F-54	
707002-0506	32318LF	---	5/16" x 3/8"	LF29F-56	
	32057LF	---	3/8" x 1/8"	LF29F-62	
707002-0604	32058LF	---	3/8" x 1/4"	LF29F-64	
707002-0606	32059LF	---	3/8" x 3/8"	LF29F-66	
707002-0608	32063LF	---	3/8" x 1/2"	LF29F-68	
707002-0804	32064LF	---	1/2" x 1/4"	LF29F-84	
707002-0806	32060LF	---	1/2" x 3/8"	LF29F-86	
707002-0808	32061LF	---	1/2" x 1/2"	LF29F-88	
			5/8" x 3/8"	LF29F-106	
			5/8" x 1/2"	LF29F-108	
707002-1212	32065LF	---	3/4" x 3/4"	LF29F-1212	

LEAD FREE HOSE BARBS

LEAD FREE BRASS FITTINGS

FORGED HOSE BARB 90° ELBOW

LF29EBS

AMC	MIDLAND	LIST	HOSE I.D. X MALE NPTF	MAF	MAF PRICE
707020-0402	32038LF	---	1/4" x 1/8"		
707020-0404	32039LF	---	1/4" x 1/4"	LF29E-44BS	
	32309LF	---	1/4" x 3/8"		
707020-0502	32036LF	---	5/16" x 1/8"		
707020-0504	32040LF	---	5/16" x 1/4"		
707020-0602	32046LF	---	3/8" x 1/8"		
707020-0604	32041LF	---	3/8" x 1/4"	LF29E-64BS	
707020-0606	32042LF	---	3/8" x 3/8"	LF29E-66BS	
707020-0608	32047LF	---	3/8" x 1/2"		
707020-0804	32048LF	---	1/2" x 1/4"		
707020-0806	32043LF	---	1/2" x 3/8"		
707020-0808	32311LF	---	1/2" x 1/2"		
	32313LF	----	3/4" x 1/2"		

HOSE BARB TEES

AMC	MIDLAND	LIST	HOSE BARB SIZE	MAF	MAF PRICE
707024-04	32365LF	---	1/4"		
707024-05	32366LF	---	5/16"		
707024-06	32126LF	---	3/8"		

MENDER/ SPLICER

AMC	MIDLAND	LIST	HOSE I.D. X HOSE I.D.	MAF	MAF PRICE
	32091LF	---	1/8"	LF29S-2	
707014-03	32092LF	---	3/16"	LF29S-3	
707014-04	32093LF	---	1/4"	LF29S-4	
707014-05	32094LF	---	5/16"	LF29S-5	
707014-06	32095LF	---	3/8"	LF29S-6	
707014-08	32096LF	---	1/2"	LF29S-8	
707014-10	32097LF	---	5/8"	LF29S-10	
707014-12	32098LF	---	3/4"	LF29S-12	

FEMALE 45° FLARE SWIVEL

AMC	MIDLAND	LIST		MAF	MAF PRICE
707010-0606	32105LF	----	3/8" x 3/8"		
707010-0808	32100LF	---	1/2" x 1/2"		

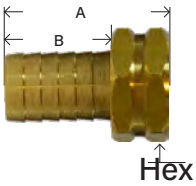
LEAD FREE GARDEN HOSE
LEAD FREE BRASS FITTINGS

LEAD FREE MINI BALL VALVES BARB X BARB

AMC	MIDLAND	LIST	H.B. X H.B.	MAF	MAF PRICE
	944142LF	---	1/4″		
	944134LF	---	3/8″		

BARSTOCK BRASS GARDEN HOSE COUPLINGS

FEMALE SWIVEL ONLY

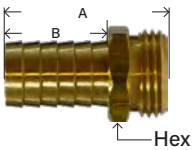


LF29FGH

▪ WASHER INCLUDED

AMC	MIDLAND	LIST	HOSE BARB X FGH	MAF	MAF PRICE
			1/4" x 3/4"	LF29FGH-412	
707046-0612	30031LF	---	3/8″ x 3/4"	LF29FGH-612	
707046-0812	30032LF	---	1/2″ x 3/4"	LF29FGH-812	
707046-1012	30033LF	---	5/8″ x 3/4"	LF29FGH-1012	
707046-1212	30034LF	---	3/4″ x 3/4"	LF29FGH-1212	

MALE END ONLY



LF29MGH

AMC	MIDLAND	LIST	HOSE BARB X MGH	MAF	MAF PRICE
			1/4" x 3/4"	LF29MGH-412H	
707048-0612	30039LF	---	3/8″ x 3/4"	LF29MGH-612H	
707048-0812	30040LF	---	1/2″ x 3/4"	LF29MGH-812H	
707048-1012	30041LF	---	5/8″ x 3/4"	LF29MGH-1012H	
707048-1212	30042LF	---	3/4″ x 3/4"	LF29MGH-1212H	

GARDEN HOSE COUPLING

▪ WASHER INCLUDED

AMC	MIDLAND	LIST	HOSE BARB	MAF	MAF PRICE
			1/4"	LF29GHS-4H	
707042-06	30025LF	---	3/8″	LF29GHS-6H	
707042-08	30027LF	---	1/2″	LF29GHS-8H	
707042-10	30028LF	---	5/8″	LF29GHS-10H	
707042-12	30029LF	---	3/4″	LF29GHS-12H	

SWIVEL - FGH X FGH

LFS3

▪ WASHER INCLUDED

AMC	MIDLAND	LIST	FGH X FGH	MAF	MAF PRICE
707403-12	30011LF	---	3/4″ x 3/4″	LF53	
707402-12	30012LF	---	no swivel	LF13GH	

LEAD FREE GARDEN HOSE

LEAD FREE BRASS FITTINGS

SWIVEL - FGH X FEMALE PIPE

LFS1
LFS2

▪ WASHER INCLUDED

AMC	MIDLAND	LIST	FGH X FEMALE NPTF	MAF	MAF PRICE
707401-1208	30001LF	---	3/4" x 1/2"	LFS1	
707401-1212	30006LF	---	3/4" x 3/4"	LFS2	

RIGID - FGH X FEMALE PIPE

▪ WASHER INCLUDED

AMC	MIDLAND	LIST	FGH X FEMALE NPTF	MAF	MAF PRICE
707411-1202	30016LF	---	3/4" x 1/8"	LF73GH	
707482-1208	30078LF	---	3/4" x 1/2"	LF82GH	
707482-1212	30083LF	---	3/4" x 3/4"	LF83GH	

SWIVEL - FGH X MALE PIPE

▪ WASHER INCLUDED

AMC	MIDLAND	LIST	FGH X MALE NPTF	MAF	MAF PRICE
707420-1204	30047LF	---	3/4" x 1/4"	LF102GH	
707420-1206	30048LF	---	3/4" x 3/8"	LF103GH	
707420-1208	30049LF	---	3/4" x 1/2"	LF104GH	
			3/4" x 3/4"	LF105GH	

RIGID - FGH X MALE PIPE

▪ WASHER INCLUDED

AMC	MIDLAND	LIST	FGH X FEMALE NPTF	MAF	MAF PRICE
	30088LF	---	3/4" x 1/2"(1/2"SWT)	LF84GHS	
707484-121208	30094LF		3/4" x 3/4"(1/2" FIP)	LF85GHT	

RIGID - MGH X MGH

LF85GHT

AMC	MIDLAND	LIST	MGH X MGH	MAF	MAF PRICE
707486-121208	30098LF	---	3/4" x 3/4" (1/2" FIP)	LF86GHT	
707486-1212	30099LF		3/4" x 3/4"		

RIGID - MGH X FEMALE PIPE

LF110GH-124

AMC	MIDLAND	LIST	MGH X FE-MALE NPTF	MAF	MAF PRICE
707480-1204	30066LF	---	3/4" x 1/4"	LF74GH	
			3/4" x 1/4"	LF110GH-124	
707480-1206	30067LF	---	3/4" x 3/8"	LF80GH-126	
707480-1208	30068LF	---	3/4" x 1/2"	LF80GH	
707480-1212	30073LF	---	3/4" x 3/4"	LF81GH	

LEAD FREE GARDEN HOSE

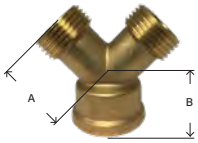
LEAD FREE BRASS FITTINGS

RIGID - MGH X MALE PIPE

LF68GH1216

AMC	MIDLAND	LIST	MGH X MALE NPTF	MAF	MAF PRICE
		----	3/4" x 1/4"	LF76GH	
707478-1206	30053LF	---	3/4″ x 3/8″	LF77GH	
707478-1208	30058LF	---	3/4″ x 1/2″	LF78GH	
707478-120808	30058SLF	---	3/4" x 1/2" (1/2" SWT)	LF78GHS	
707478-121208	30063LF	---	3/4″ x 3/4″ x 1/2″	LF79GHT	
			3/4" x 3/4"	LF79GH	
			3/4" x 1"	LF68GH-1216	

CAST BRASS HOSE - "Y" CONNECTOR



LFHY12

AMC	MIDLAND	LIST	SIZE FGH X MGH(2)	MAF	MAF PRICE
707461-12	30140LF	---	3/4″		

GARDEN HOSE CAP

LFHC-12W

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
707404-12	30103LF	---	3/4″ Die Cast	LFHC-12W	

GARDEN HOSE NUT

30-021LF

30-022LF

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
707407-12	30021LF	---	Knurled	LFGHNK	
707406-12	30022LF	---	Hex Nut	LFGHNH	

EVAPORATING COOLER ADAPTERS

LFECF12H

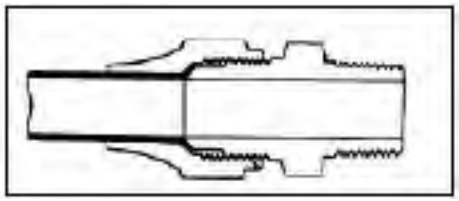
* Pipe Threads
** Garden Hose Threads

AMC	MIDLAND	LIST	SIZE	MAF #	MAF PRICE
	30019LF		3/4" x 3/4"	LFECF12*	22.99
	30020LF		3/4" x 3/4"	LFECF12H**	19.63
	30013LF		1/2" x 1/2"	LFECF8*	15.70

LEAD FREE FLARE
LEAD FREE BRASS FITTINGS

SAE 45° brass flare fittings

- Two pieces construction – nut and body
- Use with copper, brass, aluminum, or steel tubing
- -40° to +250° F. temperature range
- Resists mechanical pullout
- Easy to disassemble and can be reassembled many times, with no effect on the seal
- Primary uses: fuel equipment, plumbing, gases, refrigeration, and vacuum lines
- Meet functional requirements for SAE, ASME and ASA codes for pressure piping



TO ASSEMBLE:
1 Cut smooth, square end on tubing
2 Slide nut onto tube - threads facing end
3 Flare end of tube
4 Thread nut to body until snug, then

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Thread Size	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	11/16-14	1-1/4-12	1 3/8-12

SHORT ROD NUT

LF41S
LF41XS

AMC	MIDLAND	LIST	THREAD SIZE UNF	MAF	MAF PRICE
704014-02	10013LF	---	1/8"	LF41S-2	
704014-03	10014LF	---	3/16"	LF41S-3	
704014-04	10015LF	---	1/4"	LF41S-4	
704014-05	10016LF	---	5/16"	LF41S-5	
704014-06	10017LF	---	3/8"	LF41S-6	
	10018LF	---	7/16"	LF41S-7	
704014-08	10019LF	---	1/2"	LF41S-8	
704014-10	10020LF	---	5/8"	LF41S-10	
704014-12	10021LF	---	3/4"	LF41S-12	

SHORT FORGED NUT

AMC	MIDLAND	LIST	THREAD SIZE UNF	MAF	MAF PRICE
704018-04	10039LF	---	1/4"	LF41XS-4	
704018-06	10041LF	---	3/8"	LF41XS-6	
704020-0604	10052LF	---	3/8" x 1/4"	LF41XSR-64	
704018-08	10042LF	---	1/2"	LF41XS-8	
704020-0806	10054LF	---	1/2" x 3/8"	LF41XSR-86	
704018-10	10043LF	---	5/8"	LF641S-10	
704020-1008	10056LF	---	5/8" x 1/2"		
704018-12	10044LF	---	3/4"		

LEAD FREE FLARE

LEAD FREE BRASS FITTINGS

UNION

LF242

AMC	MIDLAND	LIST	THREAD SIZE UNF	MAF	MAF PRICE
704042-02	10104LF	---	1/8"	LF242X2	
704042-03	10105LF	---	3/16"	LF242X3	
704042-04	10106LF	---	1/4"	LF242X4	
704042-05	10107LF	---	5/16"	LF262X5	
704042-06	10108LF	---	3/8"	LF242X6	
704056-0604	10118LF	---	3/8" x 1/4"	LF242X6x4	
704042-08	10109LF	---	1/2"	LF242X8	
704056-0804	10120LF	---	1/2" x 1/4"	LF242X8x4	
704056-0806	10121LF	---	1/2" x 3/8"	LF242X8X6	
704042-10	10110LF	---	5/8"	LF242X10	
704056-1006	10122LF	---	5/8" x 3/8"	LF242X10x6	
704056-1008	10123LF	---	5/8" x 1/2"	LF242X10X8	
704042-12	10111LF	---	3/4"	LF242X12	

CAP

LF40

AMC	MIDLAND	LIST	THREAD SIZE UNF	MAF	MAF PRICE
704040-04	10075LF	---	1/4"	LF40-4	
704040-05	10076LF	---	5/16"	LF40-5	
704040-06	10077LF	---	3/8"	LF40-6	
704040-08	10078LF	---	1/2"	LF40-8	
704040-10	10079LF	---	5/8"	LF40-10	
	10080LF	---	3/4"	LF40-12	

UNION TEE

AMC	MIDLAND	LIST	SIZE (1 X 2 X 3)	MAF	MAF PRICE
704044-02	10157LF	---	1/8"		
704044-03	10158LF	---	3/16"		
704044-04	10159LF	---	1/4"		
704044-05	10160LF	---	5/16"		
704044-06	10161LF	---	3/8"		
704044-08	10162LF	---	1/2"		
704044-10	10163LF	---	5/8"		

REDUCING UNION TEE

AMC	MIDLAND	LIST	SIZE (1 X 2 X 3)	MAF	MAF PRICE
704059-060604	10174LF	---	3/8" x 3/8" x 1/4"		
704059-060608	10175LF	---	3/8" x 3/8" x 1/2"		
704059-080806	10181LF	---	1/2" x 1/2" x 3/8"		
704059-080810	10182LF	---	1/2" x 1/2" x 5/8"		
704059-101008	10189LF	---	5/8" x 5/8" x 1/2"		

LEAD FREE FLARE
LEAD FREE BRASS FITTINGS

PLUG

LF39

AMC	MIDLAND	LIST	THREAD SIZE UNF	MAF	MAF PRICE
704039-04	10064LF	---	1/4"	LF39-4	
704039-06	10066LF	---	3/8"	LF39-6	
704039-08	10067LF	---	1/2"	LF39-8	
704039-10	10068LF	---	5/8"	LF39-10	

FEMALE ADAPTER

LF46

AMC	MIDLAND	LIST	MALE FLARE X FEMALE NPTF	MAF	MAF PRICE
704046-0302	10227LF	---	3/16" x 1/8"		
704046-0402	10228LF	---	1/4" x 1/8"	LF46-42	
704046-0404	10229LF	---	1/4" x 1/4"	LF46-44	
704046-0406	10230LF	---	1/4" x 3/8"	LF46-46	
704046-0408	10231LF	---	1/4" x 1/2"		
704046-0502	10232LF	---	5/16" x 1/8"		
704046-0504	10233LF	---	5/16" x 1/4"		
704046-0602	10234LF	---	3/8" x 1/8"		
704046-0604	10235LF	---	3/8" x 1/4"	LF46-64	
704046-0606	10236LF	---	3/8″ x 3/8″	LF46-66	
704046-0608	10237LF	---	3/8″ x 1/2″	LF46-68	
704046-0612	10238LF	---	3/8" x 3/4"	LF46-612	
704046-0804	10239LF	---	1/2" x 1/4"	LF46-84	
704046-0806	10240LF	---	1/2″ x 3/8″	LF46-86	
704046-0808	10241LF	---	1/2″ x 1/2″	LF46-88	
704046-0812	10242LF	---	1/2″ x 3/4″	LF46-812	
704046-1006	10243LF	---	5/8" x 3/8"		
704046-1008	10244LF	---	5/8" x 1/2"	LF46-108	
704046-1012	10245LF	---	5/8" x 3/4"	LF46-1012	
704046-1212	10247LF	---	3/4" x 3/4"	LF46-1212	

MALE BRANCH TEE

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
704045-0402	10204LF	---	1/4" x 1/8"		
704045-0404	10205LF	---	1/4" x 1/4"		
704045-0406	10206LF	---	1/4" x 3/8"		
704045-0604	10210LF	---	3/8" x 1/4"		
704045-0606	10211LF	---	3/8" x 3/8"		
704045-0608	10212LF	---	3/8" x 1/2"		
704045-0806	10214LF	---	1/2" x 3/8"		
704045-0808	10215LF	---	1/2" x 1/2"		
704045-1008	10218LF	---	5/8" x 1/2"		

LEAD FREE FLARE

LEAD FREE BRASS FITTINGS

FORGED SWIVEL

LF700

AMC	MIDLAND	LIST	FEMALE FLARE UNF	MAF	MAF PRICE
704070-04	10481LF	---	1/4"	LF700-4	
704070-05	10482LF	---	5/16"		
704070-06	10483LF	---	3/8″	LF700-6	
704070-08	10484LF	---	1/2″	LF700-8	
704070-10	10485LF	---	5/8″	LF700-10	
704075-0604	10487LF	---	3/8" x 1/4"	LF700R-64	
704075-0806	10488LF	---	1/2" x 3/8"	LF700R-86	

MALE ADAPTER

LF48
LF248

AMC	MIDLAND	LIST	MALE FLARE X MALE NPTF	MAF	MAF PRICE
704048-0202	10253LF	---	1/8" x 1/8"	LF48-22	
704048-0302	10254LF	---	3/16" x 1/8"	LF48-32	
704048-0304	10252LF	---	3/16" x 1/4"	LF48-34	
704048-0402	10255LF	---	1/4″ x 1/8″	LF48-42	
704048-0404	10256LF	---	1/4″ x 1/4″	LF48-44	
704448-0404	10256EHLF	---	1/4″ x 1/4″	LF48-248X4X4	
704048-0406	10257LF	---	1/4" x 3/8"	LF48-46	
704048-0408	10258LF	---	1/4″ x 1/2″	LF48-48	
704048-0502	10259LF	---	5/16" x 1/8"		
704048-0504	10260LF	---	5/16" x 1/4		
704048-0506	10261LF	---	5/16" x 3/8"		
704048-0508	10251LF	---	5/16" x 1/2"		
704048-0602	10262LF	---	3/8″ x 1/8″	LF48-62	
704048-0604	10263LF	---	3/8″ x 1/4″	LF48-64	
			3/8" x 1/4"	LF248X6	
704048-0606	10264LF	---	3/8″ x 3/8″	LF48-66	
704048-0608	10265LF	---	3/8″ x 1/2″	LF48-68	
704048-0612	10266LF	---	3/8" x 3/4"	LF48-612	
704048-0804	10267LF	---	1/2" x 1/4"	LF48-84	
704048-0806	10268LF	---	1/2″ x 3/8″	LF48-86	
704048-0808	10269LF	---	1/2″ x 1/2″	LF48-88	
704048-0812	10270LF	---	1/2″ x 3/4″	LF48-812	
704048-1006	10272LF	---	5/8" x 3/8	LF48-106	
704048-1008	10273LF	---	5/8" x 1/2"	LF48-108	
704048-1012	10274LF	---	5/8" x 3/4"	LF48-1012	
704048-1208	10275LF	---	3/4" x 1/2"	LF48-128	
704048-1212	10276LF	---	3/4″ x 3/4″	LF48-1212	
704048-1412	10278LF	---	7/8" x 3/4"	LF48-1412	

LEAD FREE FLARE

LEAD FREE BRASS FITTINGS

UNION ELBOW

BS
LF255B

AMC	MIDLAND	LIST	FLARE X FLARE	MAF	MAF PRICE
704055-04	10406LF	---	1/4"	LF255X4	
704055-05	10407LF	----	3/8"	LF55F-6	
704055-08	10409LF	---	1/2"		
704057-0806	10419LF	---	1/2" x 3/8"		
704055-10	10410LF		5/8"		

FLARE X FIP TEE

AMC	MIDLAND	LIST	FLARE X FLARE X FE PIPE	MAF	MAF PRICE
704058-080808	10434LF	---	1/2" x 1/2" x 1/2"		

90° MALE ELBOW

LF249B
BS

AMC	MIDLAND	LIST	FLARE X MALE PIPE	MAF	MAF PRICE
704049-0302	10284LF	---	3/16" x 1/8"		
704049-0402	10286LF	---	1/4" x 1/8"	LF249X4X2	
704049-0404	10287LF	---	1/4" x 1/4"	LF249X4X4	
704049-0406	10288LF	---	1/4" x 3/8"	LF249X4X6	
704049-0408	10289LF	---	1/4" x 1/2"		
704049-0502	10290LF	---	5/16" x 1/8"	LF249X5	
704049-0504	10291LF	---	5/16" x 1/4	LF249X5X4	
704049-0602	10293LF	---	3/8" x 1/8"	LF249X6X2	
704049-0604	10294LF	---	3/8" x 1/4"	LF249X6X4	
704049-0606	10295LF	---	3/8" x 3/8"	LF249X6X6	
704049-0608	10296LF	---	3/8" x 1/2"	LF249X6X8	
704049-0612	10297LF	---	3/8" x 3/4"	LF249X6X12	
704049-0804	10298LF	---	1/2" x 1/4"	LF249X8X4	
704049-0806	10299LF	---	1/2" x 3/8"	LF249X8X6	
704049-0808	10300LF	---	1/2" x 1/2"	LF249X8X8	
704049-0812	10301LF	---	1/2" x 3/4"	LF249X8X12	
704049-1006	10302LF	---	5/8" x 3/8"		
704049-1008	10303LF	---	5/8" x 1/2"	LF249X10	
704049-1012	10304LF	---	5/8" x 3/4"		
704049-1208	10305LF	---	3/4" x 1/2"	LF249X12	
704049-1212	10306LF	---	3/4" x 3/4"	LF249X12X12	

LEAD FREE FLARE

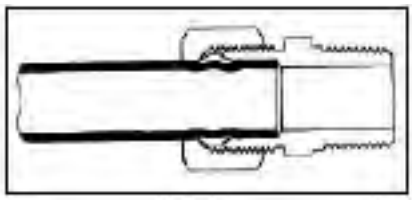
LEAD FREE BRASS FITTINGS

FEMALE ELBOW

AMC	MIDLAND	LIST	FLARE X FEMALE PIPE	MAF	MAF PRICE
704050-0402	10313LF	---	1/4″ x 1/8″		
704050-0404	10314LF	---	1/4″ x 1/4″		
704050-0604	10319LF	---	3/8″ x 1/4″		
704050-0606	10320LF	---	3/8″ x 3/8″		
704050-0608	10321LF	---	3/8″ x 1/2″		
704050-0612	10322LF	---	3/8" x 3/4"		
704050-0806	10324LF	---	1/2″ x 3/8″		
704050-0808	10325LF	---	1/2″ x 1/2″		
704050-0812	10326LF	---	1/2″ x 3/4″		
704050-1008	10328LF	---	5/8" x 1/2"		
704050-1012	10329LF	---	5/8" x 3/4"		
704050-1212	10331LF	---	3/4" x 3/4"		

LEAD FREE COMPRESSION
LEAD FREE BRASS FITTINGS

BRASS COMPRESSION FITTINGS - LEAD FREE



- Three piece construction- nut, sleeve (or ferrule) and body
- Use with copper, aluminum, or plastic tubing (plastic requires 60P sleeve and 61P insert)
- -40° to +250° F. temperature range
- Easy to disassemble, no flaring tool required
- Primary uses: water, gasoline, oil, and vacuum lines

TO ASSEMBLE:
1 Cut smooth, square end on tubing
2 Slide nut, then sleeve onto tube. Threads must face end
3 Insert tube into fitting
4 Thread nut onto fitting until snug, then as follows:

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8
Thread Size	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1-18	1-1/8-18

BRASS COMPRESSION FITTINGS

BRASS SLEEVE

LF260

- **FERRULES**

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700060-02	18001LF	---	1/8"	LF260X2	
700060-03	18002LF	---	3/16"	LF260X3	
700060-04	18003LF	---	1/4"	LF260X4	
700060-05	18004LF	---	5/16"	LF260X5	
700060-06	18005LF	---	3/8"	LF260X6	
700060-07	18006LF	---	7/16"	LF260X7	
700060-08	18007LF	---	1/2"	LF260X8	
700060-10	18008LF	---	5/8"	LF260X10	
700060-12	18009LF	---	3/4"	LF260X12	
700060-14	18010LF	---	7/8"	LF260X14	

DELRIN SLEEVE

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
00560-04	18015	---	1/4"	60P-4	
00560-05	18016	---	5/16"	60P-5	
00560-06	18017	---	3/8"	60P-6	
00560-08	18018	---	1/2"	60P-8	
00560-10	18019	---	5/8"	60P-10	

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

BRASS NUT

LF261

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700061-02	18033LF	---	1/8"	LF261X2	
700061-03	18034LF	---	3/16"	LF261X3	
700061-04	18035LF	---	1/4"	LF261X4	
700061-05	18036LF	---	5/16"	LF261X5	
700061-06	18037LF	---	3/8"	LF261X6	
700061-07	18038LF	---	7/16"	LF261X7	
700061-08	18039LF	---	1/2"	LF261X8LP	
700061-10	18040LF	---	5/8"	LF261X10	
700061-12	18041LF	---	3/4"	LF261X12	
700061-14	18042LF	---	7/8"	LF261X14	

BRASS INSERT

▪ **SLEEVE**

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700561-02	22008LF	---	1/8"	63P-2	
700561-03	22009LF	---	3/16"	63P-3	
700561-04	22010LF	---	1/4″	63P-4	
700561-05	22011LF	---	5/16″	63P-5	
700561-06	22012LF	---	3/8″	63P-6	
700561-08	22013LF	---	1/2″	63P-8	
700561-10	22014LF		5/8″		

BRASS NUT W/ CAPTIVE SLEEVE

LF611X6

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700261-02	26001LF	---	1/8"		
700261-03	26002LF	---	3/16"		
700261-04	26003LF	---	1/4"	LF261CAX4	
700261-05	26004LF	---	5/16"		
700261-06	26005LF	---	3/8"	LF261CAX6	
700261-08	26007LF	---	1/2"	LF261CAX8	
700261-10	26008LF	---	5/8"		
700261-12	26015LF	---	3/4"		
700261-14	26016LF	---	7/8"		

CAP

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700081-04	18047LF	---	1/4″	LF61CC-4	
700081-05	18046LF	---	5/16	LF61CC-5	
700081-06	18048LF	---	3/8″	LF61CC-6	
700081-08	18049LF	---	1/2″	LF61CC-8	
700081-10	18050LF	---	5/8″	LF61CC-10	

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

UNION

LF262

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700062-02	18062LF	---	1/8″	LF262X2	
700062-03	18063LF	---	3/16″	LF262X3	
700062-04	18064LF	---	1/4″	LF262X4	
700062-05	18065LF	---	5/16″	LF262X5	
700062-06	18066LF	---	3/8″	LF262X6	
700062-07	18067LF	---	7/16"		
700062-08	18068LF	---	1/2″	LF262X8	
700062-10	18069LF	---	5/8″	LF62-10	
700062-12	18070LF	---	3/4″	LF62-12	
700062-14	18071LF	---	7/8″	LF62-14	

M-62

REDUCING UNION

LF62R

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700082-0402	18076LF	---	1/4″ x 1/8″	LF62R-42	
700082-0403	18077LF	---	1/4″ x 3/16″	LF62R-43	
700082-0504	18078LF	---	5/16″ x 1/4″	LF62R-54	
700082-0604	18079LF	---	3/8″ x 1/4″	LF62R-64	
700082-0605	18080LF	---	3/8" x 5/16"	LF62R-65	
700082-0806	18081LF	---	1/2" x 3/8"	LF62R-86	
700082-1006	18082LF	---	5/8" x 3/8"	LF62R-106	
700082-1008	18083LF	---	5/8" x 1/2"	LF62R-108	

62-R

TANK UNION

LF62T

- DRILLED THROUGH

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700092-06	18066DLF	---	3/8"	LF62T-6	
700092-08	18068DLF	---	1/2"	LF62T-8	
700092-10	18069DLF	---	5/8"	LF62T-10	
700092-14	18071DLF	---	7/8"	LF62T-14	

TEE

LF264B

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700064-02	18101LF	---	1/8″		
700064-03	18102LF	---	3/16"	LF264X3	
700064-04	18103LF	---	1/4″	LF264X4	
700064-05	18104LF	---	5/16"	LF264X5	
700064-06	18105LF	---	3/8″	LF264X6	
700064-08	18106LF	---	1/2″	LF264X8	
700064-10	18107LF	---	5/8″	LF264X10	
700064-14	18109LF	---	7/8″	LF64-14	

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

REDUCING TEE

LF264B

AMC	MIDLAND	LIST	SIZE (1 X 2 X 3)	MAF	MAF PRICE
700084-040402	18114LF	---	1/4" x 1/4" x 1/8"		
700084-040406	18110LF	---	1/4" x 1/4" x 3/8"		
700084-060604	18115LF		3/8″ x 3/8″ x 1/4″	LF264X6X6X4	
700084-080804	18116LF		1/2″ x 1/2″ x 1/4″		
700084-080806	18117LF		1/2″ x 1/2″ x 3/8″	LF264X8X8X6	
700084-101006	18118LF		5/8" x 5/8" x 3/8"	LF264X10X10X6	

64-R

ELBOW

LF265

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700065-02	18122LF	---	1/8"		
700065-03	18123LF	---	3/16"		
700065-04	18124LF	---	1/4″	LF265X4	
700065-05	18125LF	---	5/16″		
700065-06	18126LF	---	3/8″	LF265X6	
700065-08	18127LF	---	1/2″	LF265X8	
700065-10	18128LF	---	5/8″	LF265X10	
700065-12	18129LF	---	3/4″		
700065-14	18130LF	---	7/8″		
700085-0604	18135LF	---	3/8" x 1/4"		
700085-0806	18136LF	---	1/2" x 3/8"		
700085-1006	18137LF	---	5/8" x 3/8"		
700085-1008	18138LF		5/8" x 1/2"		

65 **BSE2** 165C **265C**

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

FEMALE COUPLING

LF66
LF266

AMC	MIDLAND	LIST	COMP. X FEMALE NPT	MAF	MAF PRICE
700066-0202	18142LF	---	1/8″ x 1/8″	LF66-22	---
700066-0302	18143LF	---	3/16″ x 1/8″	LF66-32	---
700066-0304	18144LF	---	3/16" x 1/4"		---
700066-0402	18145LF	---	1/4″ x 1/8″	LF66-42	---
700066-0404	18146LF	---	1/4″ x 1/4″	LF66-44	---
700066-0406	18147LF	---	1/4″ x 3/8″	LF66-46	---
700066-0408	18148LF	---	1/4″ x 1/2″	LF66-48	---
700066-0502	18149LF	---	5/16" x 1/8"		---
700066-0504	18150LF	---	5/16″ x 1/4″		---
700066-0506	18151LF	---	5/16″ x 3/8″	LF66-56	---
700066-0602	18152LF	---	3/8″ x 1/8″	LF66-62	---
700066-0604	18153LF	---	3/8″ x 1/4″	LF66-64	---
700066-0606	18154LF	---	3/8″ x 3/8″	LF66-66	---
700066-0608	18155LF	---	3/8″ x 1/2″	LF66-68	---
700066-0612	18156LF	---	3/8″ x 3/4″	LF66-612	---
700066-0804	18157LF	---	1/2" x 1/4"		---
700066-0806	18158LF	---	1/2″ x 3/8″	LF66-86	---
700066-0808	18159LF	---	1/2″ x 1/2″	LF66-88	---
700066-0812	18160LF	---	1/2″ x 3/4″	LF66-812	---
700066-1006	18161LF	---	5/8" x 3/8"	LF66-106	---
700066-1008	18162LF	---	5/8″ x 1/2″	LF66-108	---
700066-1012	18163LF	---	5/8″ x 3/4″	LF66-1012	---
700066-1208	18164LF	---	3/4" x 1/2"	LF66-128	---
700066-1212	18165LF	---	3/4" x 3/4"	LF66-1212	---
700066-1408	18167LF	---	7/8" x 1/2"	LF66-148	---
700066-1412	18166LF	---	7/8″ x 3/4″	LF66-1412	----

66

COMP X SWEAT ADAPTER

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700086-0610	18171LF	---	3/8″ x 1/2″ nom.swt.		---

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

LEAD FREE

MALE ADAPTER COMP X MIP

LF68

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700068-0202	18176LF	---	1/8″ x 1/8″	LF68-22	
700068-0302	18177LF	---	3/16″ x 1/8″	LF68-32	
700068-0304	18178LF	---	3/16″ x 1/4″	LF68-34	
700068-0402	18179LF	---	1/4″ x 1/8″	LF68-42	
700068-0404	18180LF	---	1/4″ x 1/4″	LF68-44	
700068-0406	18181LF	---	1/4″ x 3/8″	LF68-46	
700068-0408	18182LF	---	1/4″ x 1/2″	LF68-48	
700068-0502	18183LF	---	5/16″ x 1/8″	LF68-52	
700068-0504	18184LF	---	5/16″ x 1/4″	LF68-54	
700068-0506	18185LF	---	5/16" x 3/8"		
700068-0508	18186LF	---	5/16" x 1/2"		
700068-0602	18187LF	---	3/8″ x 1/8″	LF68-62	
700068-0604	18188LF	---	3/8″ x 1/4″	LF68-64	
700068-0606	18189LF	---	3/8″ x 3/8″	LF-68-66	
700068-0608	18190LF	---	3/8″ x 1/2″	LF68-68	
700068-0612	18191LF	---	3/8″ x 3/4″	LF68-612	
700068-0704	18192LF	---	7/16″ x 1/4″		
700068-0706	18204LF	---	7/16" x 3/8"		
700068-0804	18193LF	---	1/2″ x 1/4″	LF68-84	
700068-0806	18194LF	---	1/2″ x 3/8″	LF68-86	
700068-0808	18195LF	---	1/2″ x 1/2″	LF68-88	
700068-0812	18196LF	---	1/2″ x 3/4″	LF68-812	
700068-1006	18197LF	---	5/8″ x 3/8″	LF68-106	
700068-1008	18198LF	---	5/8″ x 1/2″	LF68-108	
700068-1012	18199LF	---	5/8″ x 3/4″	LF68-1012	
700068-1208	18200LF	---	3/4" x 1/2"	LF68-128	
700068-1212	18201LF	---	3/4″ x 3/4″	LF68-1212	
700068-1408	18202LF	---	7/8″ x 1/2″	LF68-148	
700068-1412	18203LF	---	7/8″ x 3/4″	LF68-1412	
700068-1416	18205LF	---	7/8" x 1"	LF68-1416	

LEAD FREE COMPRESSION
LEAD FREE BRASS FITTINGS

ELBOW COMP X MIP

LF269B
LF69F

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700069-0202	18220LF	---	1/8" x 1/8"		
700069-0302	18221LF	---	3/16" x 1/8"		
700069-0304	18223LF	---	3/16" x 1/4"		
700069-0402	18224LF	---	1/4" x 1/8"	LF269X4	
700069-0404	18225LF	---	1/4" x 1/4"	LF269X4X4	
700069-0406	18226LF	---	1/4" X 3/8"	LF269X4X6	
700069-0408	18227LF	---	1/4" x 1/2"		
700069-0502	18228LF	---	5/16" x 1/8"		
700069-0504	18229LF	---	5/16" x 1/4"		
700069-0506	18230LF	---	5/16" x 3/8"		
700069-0602	18232LF	---	3/8" x 1/8"	LF269X6X2	
700069-0604	18233LF	---	3/8" x 1/4"	LF269X6	
700069-0606	18234LF	---	3/8" x 3/8"	LF269X6X6	
700069-0608	18235LF	---	3/8" x 1/2"	LF269X6X8	
700069-0612	18248LF	---	3/8" x 3/4"		
700069-0704	18247LF	---	7/16" x 1/4"		
700069-0804	18236LF	---	1/2" x 1/4"		
700069-0806	18237LF	---	1/2" x 3/8"	LF69F-86	
700069-0808	18238LF	---	1/2" x 1/2"	LF69F-88	
700069-0812	18239LF	---	1/2" x 3/4"		
700069-1006	18240LF	---	5/8" x 3/8"	LF269X10X6	
700069-1008	18241LF	---	5/8" x 1/2"	LF69F-108	
700069-1012	18242LF	---	5/8" x 3/4"	LF269X10X12	
700069-1208	18243LF	---	3/4" x 1/2"		
700069-1212	18245LF	---	3/4" x 3/4"		
700069-1412	18246LF	----	7/8" x 3/4"	LF69F-1412	

TANK CONNECTOR COMP X MIP

LF68T
- DRILLED THROUGH

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700088-0302	18177TLF	---	3/16" x 1/8"	LF68T-32	
700088-0402	18208LF	---	1/4" x 1/8"	LF68T-42	
700088-0404	18209LF	---	1/4" x 1/4"	LF68T-44	
700088-0604	18210LF	---	3/8" x 1/4"	LF68T-64	
700088-0606	18211LF	---	3/8" x 3/8"	LF68T-66	
700088-0608	18212LF	---	3/8" x 1/2"	LF68T-68	
700088-0806	18213LF	---	1/2" x 3/8"	LF68T-86	
700088-0808	18214LF	---	1/2" x 1/2"	LF68T-88	
700088-1008	18215LF	----	5/8" x 1/2"		

69 **269C** BSE1 **169C**

LEAD FREE COMPRESSION
LEAD FREE BRASS FITTINGS

FEMALE ELBOW COMP X FIP

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700070-0202	18251LF	---	1/8" x 1/8"		
700070-0302	18252LF	---	3/16" x 1/8"		
700070-0402	18253LF	---	1/4" x 1/8"		
700070-0404	18254LF	---	1/4" x 1/4"		
700070-0406	18267LF	---	1/4" x 3/8"		
700070-0408	18268LF	---	1/4" x 1/2"		
700070-0502	18255LF	---	5/16" x 1/8"		
700070-0504	18256LF	---	5/16" x 1/4"		
700070-0602	18257LF	---	3/8" x 1/8"		
700070-0604	18258LF	---	3/8" x 1/4"	LF70F-64	
700070-0606	18259LF	---	3/8" x 3/8"	LF270X6X6	
700070-0608	18260LF	---	3/8" x 1/2"		
700070-0612	18250LF	---	3/8" x 3/4"		
700070-0806	18262LF	---	1/2" x 3/8"	LF270X8	
700070-0808	18263LF	---	1/2" x 1/2"	LF270X8X8	
700070-1006	18269LF	---	5/8" x 3/8"		
700070-1008	18264LF	---	5/8" x 1/2"	LF270X10	
700070-1012	18265LF	----	5/8" x 3/4"		

45° ELBOW COMP X MIP

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700095-0402	18330LF	---	1/4" x 1/8"		
700095-0404	18336LF	---	1/4" x 1/4"		
700095-0604	18333LF	---	3/8" x 1/4"		
700095-0606	18338LF	---	3/8" x 3/8"		
700095-0806	18334LF	---	1/2" x 3/8"		
700095-0808	18339LF	---	1/2" x 1/2"		
700095-1008	18335LF	---	5/8" x 1/2"		

MALE RUN TEE COMPRESSION X MIP

LF272

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700071-0302	18273LF	---	3/16" x 1/8"		
700071-0402	18274LF	---	1/4" x 1/8"		
700071-0404	18275LF	---	1/4" x 1/4"		
700071-0502	18276LF	---	5/16" x 1/8"		
700071-0504	18277LF	---	5/16" x 1/4"		
700071-0604	18279LF	---	3/8" x 1/4"		
700071-0606	18280LF	---	3/8" x 3/8"		
700071-0806	18281LF	---	1/2" x 3/8"		

LEAD FREE COMPRESSION
LEAD FREE BRASS FITTINGS

MALE BRANCH TEE COMP X MIP

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700072-0202	18289LF	---	1/8" x 1/8"		
700072-0302	18290LF	---	3/16" x 1/8"		
700072-0402	18291LF	---	1/4" x 1/8"	LF272X4	
700072-0404	18292LF	---	1/4" x 1/4"		
700072-0502	18293LF	---	5/16" x 1/8"		
700072-0504	18294LF	---	5/16" x 1/4"		
700072-0602	18295LF	---	3/8" x 1/8"		
700072-0604	18296LF	---	3/8" x 1/4"		
700072-0606	18297LF	---	3/8" x 3/8"		
700072-0806	18299LF	---	1/2" x 3/8"		
700072-0808	18300LF	---	1/2" x 1/2"		
700072-1008	18301LF	---	5/8" x 1/2"		
700072-1212	18303LF	----	3/4" x 3/4"		

TEE COMP X FIP X MIP

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700075-040202	18307LF	---	1/4" x 1/8 x 1/8"		---

TEE FIP X MIP X COMP

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700076-0404	18315LF	---	1/4" x 1/4" x 1/4"		

FEMALE BRANCH TEE COMP X FIP

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700078-0602	18325LF	---	3/8" x 1/8"		
700078-0604	18322LF	---	3/8" x 1/4"		
700078-0606	18323LF	---	3/8" x 3/8"		
700078-1002	18327LF	---	5/8" x 1/8"		

FEMALE ADAPTER COMPRESSION X FEMALE FLARE

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700093-0404	18502LF	---	1/4" x 1/4"		

MALE ADAPTER COMPRESSION X MALE FLARE

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700094-0404	18503LF	---	1/4" x 1/4"	LF6242CF-44	
			1/4" x 3/8"	LF6242CF-46	

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

FEMALE ADAPTER (GASKET) FEMALE COMPRESSION X COMPRESSION

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
730097-0604	18500LF	---	3/8" x 1/4"		
700097-0806	18501LF	---	1/2" x 3/8"		

FEMALE ADAPTER (GASKET) FEMALE FLARE X COMPRESSION

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
734822-0606	18510LF	---	9/16-24 x 3/8		

FEMALE ADAPTER (GASKET) FE GARDEN HOSE X COMPRESSION

LF124GH
LF125GH

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
737422-1204	30050LF	---	3/4" x 1/4"		
737422-1206	30051LF	----	3/4" x 3/8"		

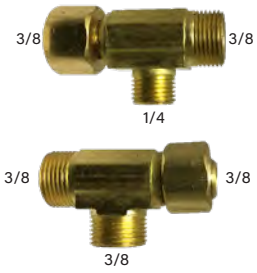
SWIVEL ELBOW COMP X FE GARDEN HOSE SWIVEL

LF69GHS-162

- NO NUT & SLEEVE

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
737469-0612	30055LF	---	3/8" x 3/4"		

LEAD FREE ADD-A-TEE COMP X COMP X SWIVEL FE COMPRESSION



AMC	MIDLAND	LIST	MALE & FEM. COMPRESSION X MALE COMP	MAF	MAF PRICE
700073-060604	935044LF	---	3/8 x 1/4		
700073-060606	935045LF	---	3/8 x 3/8		

- For adding a water line
- Ice makers, Coffee makers and instant hot water systems
- NSF Approved

N/P COMPRESSION/ ICE MAKER KITS/ LEAD FREE BRASS FITTINGS

LEAD FREE BRASS FITTINGS

NICKEL PLATED COMPRESSION FITTINGS

NUT

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700661-04	18054LF	---	1/4"		---
700661-06	18055LF	---	3/8"		---
700661-08	18056LF	---	1/2"		---
700661-10	18057LF	---	5/8"		---

UNION

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700662-06	31066LF	---	3/8"		
700662-08	31068LF	---	1/2"		

REDUCING UNION

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700682-0604	31079LF	---	3/8" x 1/4"		
700682-0806	31081LF	---	1/2" x 3/8"		
700682-1006	31082LF	---	5/8" x 3/8"		
700682-1008	31083LF	---	5/8" x 1/2"		

TEE

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700664-06	31105LF	---	3/8"		
700664-08	31106LF	---	1/2"		

ELBOW

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700665-06	31126LF	---	3/8"		
700665-08	31127LF	---	1/2"		

REDUCING ELBOW

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700685-1006	31137LF	---	5/8" x 3/8"		

FEMALE COUPLING

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700666-0606	31154LF	---	3/8" x 3/8"		
700666-0608	31155LF	---	3/8" x 1/2"		
700666-0806	31158LF	---	1/2" x 3/8"		
700666-0808	31159LF	---	1/2" x 1/2"		

N/P COMPRESSION/ ICE MAKER KITS/ LEAD FREE BRASS FITTINGS

LEAD FREE BRASS FITTINGS

LEAD FREE

COMP X SWEAT ADAPTER

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700686-0610	31171LF	---	3/8" x 5/8" O.D (1/2 Nom. Sweat)		

CONNECTOR

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700668-0604	31188LF	---	3/8" x 1/4"		
700668-0606	31189LF	---	3/8" x 3/8"		
700668-0608	31190LF	---	3/8" x 1/2"		
700668-0806	31194LF	---	1/2" x 3/8"		
700668-0808	31195LF	---	1/2" x 1/2"		
00668-1008	31198LF	---	5/8" x 1/2"		

ELBOW

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700669-0604	31233LF	---	3/8" x 1/4"		
700669-0606	31234LF	---	3/8" x 3/8"		
700669-0608	31235LF	---	3/8" x 1/2"		
700669-0806	31237LF	---	1/2" x 3/8"		
700669-0808	31238LF	---	1/2" x 1/2"		

ELBOW

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
700670-0608	31260LF	---	3/8" x 1/2"		---

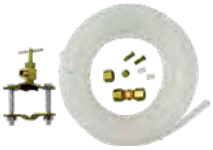
ICE MAKER KITS

ICE MAKER WATER SUPPLY KIT WITH POLY TUBING

AMC	MIDLAND	LIST	DESCRIPTION	MAF	MAF PRICE
760001	43265LF	---	Kit		

- Lead free fittings
- Bag with Header Card
- 25′ 1/4″ O.D. Polyethylene
- Self Piercing Saddle Valve
- 1/4″ O.D. Compression x 1/8″ MIP Elbow & Adapter
- 1/4″ O.D. Compression Union
- 1/4″ Inserts & Sleeves

ICE-MAKER WATER SUPPLY KIT



AMC	MIDLAND	LIST	MAF	MAF PRICE
760008	43266LF	---		

- Economy
- 25′ Polyethylene Tubing
- Self Piercing Saddle Valve
- 1/4″ Compression Union
- 1/4″ Inserts & Sleeves

LEAD FREE NEEDLE VALVES

LEAD FREE BRASS FITTINGS

COMP X COMP

AMC	MIDLAND	LIST	COMP X COMP	MAF	MAF PRICE
709106-04	46021LF	---	1/4″		
709106-05	46022LF	---	5/16"		
709106-06	46023LF	---	3/8″		

COMP X MALE PIPE

AMC	MIDLAND	LIST	COMP X MALE PIPE	MAF	MAF PRICE
709101-0402	46002LF	---	1/4" x 1/8"		
709101-0404	46003LF	---	1/4″ x 1/4″		
709101-0604	46005LF	---	3/8″ x 1/4″		

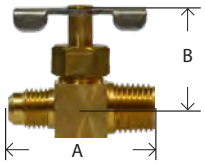
COMP X MALE PIPE-ANGLE

AMC	MIDLAND	LIST	COMP X MALE PIPE	MAF	MAF PRICE
709103-0402	46011LF	---	1/4″ x 1/8″		
709103-0404	46012LF	---	1/4″ x 1/4″		
709103-0502	46013LF	---	5/16" x 1/8"		
709103-0602	46015LF	---	3/8" x 1/8"		
709103-0604	46016LF	---	3/8" x 1/4"		

FLARE X FLARE

AMC	MIDLAND	LIST	FLARE X FLARE	MAF	MAF PRICE
709110-04	46045LF	---	1/4"		
709110-06	46046LF	---	3/8"		

FLARE X MALE PIPE



AMC	MIDLAND	LIST	MALE FLARE X MALE PIPE	MAF	MAF PRICE
709104-0404	46029LF	---	1/4″ x 1/4″		

FEMALE PIPE X FEMALE PIPE

AMC	MIDLAND	LIST	FEMALE X FEMALE	MAF	MAF PRICE
709134-02	46055LF	---	1/8" x 1/8"		
709134-04	46056LF	---	1/4″ x 1/4″		

MALE X FEMALE PIPE

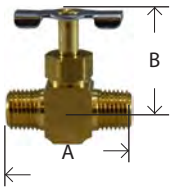
AMC	MIDLAND	LIST	FEMALE X MALE	MAF	MAF PRICE
709135-02	46060LF	---	1/8" x 1/8"		
709135-04	46061LF	---	1/4″ x 1/4″		

LEAD FREE NEEDLE VALVES

LEAD FREE BRASS FITTINGS

LEAD FREE

MALE PIPE TO MALE PIPE



AMC	MIDLAND	LIST	MALE PIPE X MALE PIPE	MAF	MAF PRICE
709108-04	46051LF	---	1/4″		

VALVE WITH TEE

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
709178-0406	46175LF	---	1/4" x 3/8"		
709178-0410	46177LF	---	1/4" x 5/8"		
709178-0606	46174LF	---	3/8" x 3/8"		

VALVE WITH SADDLE FITS UP TO 3/4" PIPE

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
709195-04	46091LF	---	1/4"		
709195-05		----	5/16"		
709195-06	46093LF	---	3/8"		

BRASS SADDLE

AMC	MIDLAND	LIST	SIZE	MAF	MAF PRICE
709190	46099LF	---	1/8"		

SELF PIERCING SADDLE VALVES

AMC	MIDLAND	LIST		MAF	MAF PRICE
709199-04	46090ALF	---	Solid Pin		
	46090HLF	---	Hollow Pin		

- 1/4 Tube O.D.

SELF PIERCING NEEDLE VALVE KIT #M-104-VSP

- INDIVIDUALLY BAGGED WITH NEEDLE VALVE
- SADDLE CLAMP
- 2 NUTS
- 2 BOLTS & WASHERS

Has brass sleeve for copper tube installation & delrin

sleeve & brass insert for plastic tube installation.

LEAD FREE

LEAD FREE VALVES & PLBG

LEAD FREE VALVES & PLUMBING ACCESSORIES!

LEAD FREE BALL VALVES

PRESS VALVES

PEX VALVES

PUSH FIT VALVES

SILCOCK

GATE VALVES

CHECK

BOILDER DRAIN

SUPPLY CONNECTORS

RUBBER COUPLINGS

VACUUM BREAKER

SUPPLY STOPS

WATER METER FLANGES

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

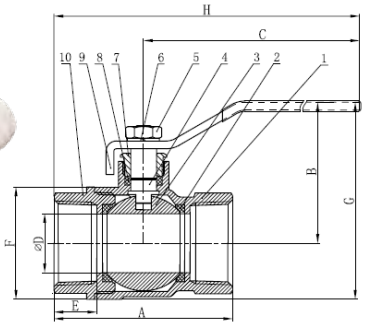
LEAD FREE BALL VALVE

IAMPO IGC 157 - 2004b

Lead Free Brass Ball Valve NPT,Female*Female
Lead Free and dezincification resistant (DZR) material
IAPMO listed to NSF/ANSI-61, NSF/ANSI-372 ,IGC-157
CSA listed to NSF/ANSI-61, NSF/ANSI-372 ,IGC-157
Vacuum Services 29.92 inches Hg
600 psi (WOG) 150 psi (WSP) Service
Thread conform ANSI B1.20.1
Temperature Range : -40° F to 365° F
Construction:Forging Brass Body
PTFE Ball Seats
Blow Out Proof Brass Stem
Stainless Steel Ball
Steel Handle w/Vinyl Grip
Made in China

FIP X FIP LEAD FREE BALL VALVE

PART #	SIZE	DN	A	B	C	E	F	G	H	WEIGHT	BOX/CASE	LIST PRICE
941151LF	1/4"	0.394	1.73	1.69	3.35	0.453	0.945	2.154	4.331	0.32	10/120	---
941152LF	3/8"	0.394	1.73	1.69	3.35	0.473	0.945	2.154	4.331	0.32	10/120	---
941153LF	1/2"	0.524	1.89	1.73	3.35	0.472	1.083	2.276	4.291	0.36	10/100	---
941154LF	3/4"	0.748	2.28	1.89	3.35	0.563	1.378	2.579	4.488	0.57	10/80	---
941155LF	1"	0.984	2.80	2.14	4.29	0.650	1.772	3.031	5.689	0.94	8/48	---
941156LF	1-1/4"	1.240	3.15	2.32	4.29	0.669	2.165	3.398	5.866	1.30	4/36	---
941157LF	1-1/2"	1.476	3.44	2.66	5.53	0.701	2.50	3.909	7.343	1.92	2/24	---
941158LF	2"	1.949	4.06	3.01	5.53	0.708	3.244	4.638	7.638	3.12	2/12	---
941159LF	2-1/2"	2.52	5.53	4.25	7.76					7.42	2/12	---
941160LF	3"	2.89	6.14	4.58	8.19					11.01	1/6	---
941161LF	4"	3.84	7.79	5.49	9.25					12.10	1/2	---



No	Item	Qty	Material
1	Body	1	Lead Free Brass
2	Seat	2	PTFE
3	Ball	1	Stainless Steel
4	Stem	1	Brass
5	Handle Nut	1	Plated Steel
6	Lock Washer	1	Plated Steel
7	Packing Nut	1	Brass
8	Packing	1	PTFE
9	Handle	1	Plated Steel
10	Cap	1	Lead Free Brass

SWT X SWT LEAD FREE BALL VALVE

PART #	SIZE	DN	A	B	C	E	G	H	WEIGHT	WTG	BOX/CASE	LIST PRICE
941163LF	1/2"	0.524	1.945	1.73	3.35	0.504	1.083	2.276	4.319	0.38	10/100	---
941164LF	3/4"	0.748	2.654	1.89	3.35	0.748	1.378	2.579	4.665	0.65	10/80	---
941165LF	1"	0.984	3.315	2.14	4.29	0.909	1.772	3.031	5.949	0.93	8/48	---
941166LF	1-1/4"	1.240	3.741	2.32	4.29	0.968	2.165	3.398	6.165	1.35	4/36	---
941167LF	1-1/2"	1.476	4.252	2.66	5.63	1.091	2.50	3.909	7.756	1.88	2/24	---
941168LF	2"	1.949	5.38	3.01	5.63	1.343	3.244	4.638	8.268	3.62	2/12	---
941169LF	2½"	2.52	5.53	4.25	7.76							
941170LF	3"	2.89	6.14	4.58	8.19							
941171LF	4"	3.84	7.79	5.49	9.25							

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LEAD FREE

1/2" - 2" Sizes Gas Approved

LEAD FREE BALL VALVE

UL842, UL258, UL125,FM

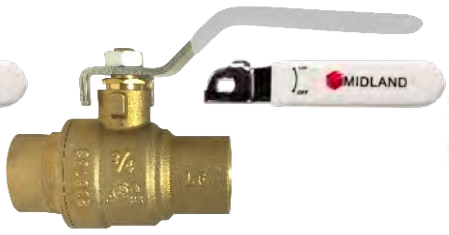
• BRASS • 600PSI • FULL PORT W/APPROVALS

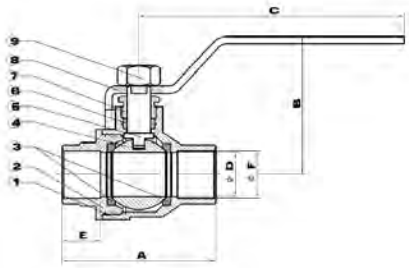
CSA, UL, FM(1/4"-2"), cUPC, NSF/ ANSI 61 & 372

FEATURES

- Leadfree Brass Ball valve NPT, Female * Female
- Lead free and dezincification resistant (DZR) material
- 1/4"-1" Lead Free Brass Ball
- Size 1-1/4" thru 4" with Stainless steel ball
- IAMPO listed to cUPC, NSF/ ANSI 61 & 372, IGC 157
- CSA - 1/4" thru 2": ANSI Z21.15/ CSA 9.1 for 1/2 psig valves ASME B16.44, CGA CR91-002 for 2 & 5 psig valves; CAN/ CGA-3.16, ASME B16.33 (1/2"-2") for 125 psig valves
- UL 125, UL 1477, UL 842 - for size 1/4" thru 4", 250 psig
- UL 258 - for size 1/4" thru 2", 175 psig
- FM - for size 1/4" thru 2"
- ISO 9002 Manufacture
- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated for 1/4"-2" at 600psi (42 bars) and 2-1/2"-4" at 400 psi WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin PTFE stem packing seal, thrust washer and seats
- White vinyl insulator on heavy duty plated carbon steel handles
- Fast 1/4 turn open or close operation
- Low operating torque
- **Adjustable stem packing gland**
- Maximum operating temperature: 302^{0}F (150^0 C)
- Minimum operating temperature: -22^{0}F (-30^{0}C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem

POS	Components	Materials
1	Body	Lead Free Brass
2	End Cap	Lead Free Brass
3	Ball Seat	PTFE
4	Ball	1/4-1:Lead Free Brass 1 1/4-4:SS316 Hollowball
5	Stem	Brass
6	Stem Padding	PTFE
7	Padding Nut	Brass
8	Lever Handle	Nickel plating steel
9	Stem Nut	Brass plating steel
10	Seal	PTFE





PART#	SIZE	DIMENSIONS A	B	C	D	E	F	G	H	WEIGHT	BOX/ CASE	
940171LF	1/4"	1.756	1.732	3.543	0.394	0.457	1.012	2.238	4.421	0.34	70/140	---
940172LF	3/8"	1.756	1.732	3.543	0.394	0.457	1.012	2.238	4.421	0.34	70/140	---
940173LF	1/2"	2.047	2.040	3.543	0.583	0.520	1.240	2.559	4.567	0.45	50/100	---
940174LF	3/4"	2.362	2.260	3.780	0.748	0.563	1.492	2.854	4.961	0.69	30/60	---
940175LF	1"	2.756	2.579	4.528	0.945	0.630	1.791	3.476	5.906	1.11	20/40	---
940176LF	1-1/4"	3.307	3.050	4.528	1.260	0.709	2.343	4.134	6.181	1.85	12/24	---
940177LF	1-1/2"	3.661	3.366	5.420	1.575	0.717	2.835	4.783	7.343	2.60	9/18	---
940178LF	2"	4.181	3.701	5.42	1.969	0.748	3.425	5.413	7.602	3.62	6/12	---
940179LF	2-1/2"	4.181	4.650	8.870	2.520	1.024	4.331	6.969	11.350	7.93	3/6	---
940180LF	3"	6.039	4.970	8.870	2.913	1.102	4.921	7.579	11.681	10.40	1/4	---
940181LF	4"	7.386	6.130	10.85	3.898	1.220	6.430	9.055	13.299	20.99	1/2	---

SWT X SWT LEAD FREE BALL VALVE

FM, cUPC, NSF/ ANSI 61 & 372

PART #	SWT	A	B	C	D	E	F	WEIGHT	BOX/CASE	LIST PRICE
943612LF	1/2"	2.047	1.839	3.543	0.583	0.512	0.630	0.45	50/100	---
943613LF	3/4"	2.748	2.14	3.780	0.748	0.748	0.878	0.68	30/60	---
943614LF	1"	3.228	2.449	4.528	0.945	0.906	1.130	1.08	20/40	---
943615LF	1-1/4"	3.819	3.04	4.36	1.260	0.972	1.378	1.80	12/24	---
943616LF	1-1/2"	4.425	3.169	5.39	1.575	1.088	1.630	2.51	9/18	---
943617LF	2"	5.377	3.488	6.307	1.989	1.346	2.130	3.57	6/12	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LEAD FREE

LEAD FREE BALL VALVES
LF VALVES & PLBG FITTINGS

ITALIAN LEAD FREE BRASS BALL VALVE

CSA AGA 3.88 5 PSIG

UL842, UL258, UL125,FM

IAMPO IGC 157 - 2004b

ISO 9002 Manufacturer
FEATURES

600 PSI non-shock cold water, gas, oil - 150 PSI saturated steam

- **SOLID CHROME PLATED BRASS BALL**
- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Blue vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation
- Low operating torque
- Flow can go both directions
- Adjustable stem packing gland
- Maximum operating temerature: 248^{0}F (120^0 C) at 600 PSI
- Minimum operating temperature: -20^{0}F (-40^{0}C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections

MADE IN ITALY

FIP X FIP

ANSI/INSF 61-8
- Generic Handles

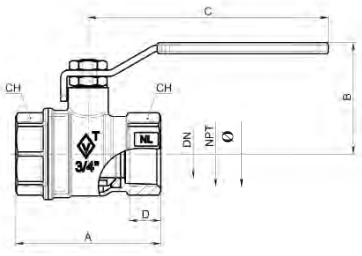
SWT X SWT

FIP X FIP LEAD FREE FORGED BRASS BALL VALVE

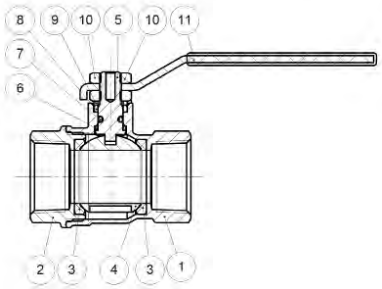
PART #	NPT	DN	A	B	C	D	CH	WEIGHT (LBS)	BOX/CASE	LIST PRICE
943233LF	1/2"	0.57	2.09	1.57	3.35	0.46	0.98	0.39	20/80	---
943234LF	3/4"	0.75	2.28	1.77	3.80	0.49	1.22	0.56	14/56	---
943235LF	1"	0.94	3.04	2.03	3.80	0.59	1.50	0.89	6/24	---
943236LF	1-1/4"	1.24	3.23	2.32	4.72	0.62	1.85	1.44	4/16	---
943237LF	1-1/2"	1.49	3.70	2.60	4.72	0.64	2.13	2.19	2/8	---

SWT X SWT LEAD FREE FORGED BRASS BALL VALVE

PART #	SWT	Ø	DN	A	B	C	D	CH	WEIGHT (LBS)	BOX/CASE	LIST PRICE
940212LF	1/2"	0.63	0.57	2.40	1.57	3.35	0.42	0.79	0.35	20/80	---
940213LF	3/4"	0.866	0.75	3.26	1.77	3.80	0.61	1.06	0.55	10/40	---
940214LF	1"	1.102	0.94	3.68	2.03	3.80	0.73	1.34	0.87	6/24	---
940215LF	1-1/4"	1.377	1.24	4.23	2.32	4.72	0.91	1.61	1.41	6/24	---
940216LF	1-1/2"	1.61	1.49	4.96	2.60	4.72	1.06	1.89	2.08	2/8	---



POS	Components	Materials
1	Body	CW510L
2	End Connection	CW510L
3	Ball Seal	PTFE
4	Seal	CW510L
5	Stem	CW614N
6	Lower Stem	PTFE
7	O-Ring	NBR70sh
8	Upper Seal	PTFE
9	Brass Ring	CW614N
10	Nut	Steel
11	Handle	Steel P10



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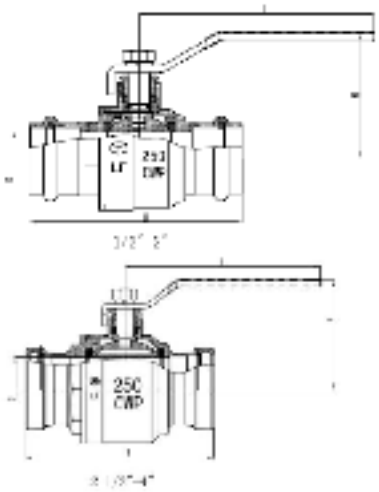
LEAD FREE COPPER PRESS BALL VALVE

Midland Series "9404LF" 2-Piece, Full Port, Lead Free, Copper, Press Ball Valves are designed for use in flameless, copper press piping systems. Midland Copper Press Ball Valves feature a lead free brass body, adjustable packing gland and blowout proof stem with stem a single O-ring seal. Our press ball valves come with integral ASTM-B88 compliant press end connections that can be used with type K, L, M, hard copper tubing 1/2 in. – 4 in. Utilizing industry standard tools.

Midland Press Ball Valve Features

- Lead Free construction.
- Available Sizes: 1/2 in. – 4 in.
- Integral press end connections designed for hard and soft copper tubing
- ISO-9001
- 250 WOG - 250 CWP (2-1/2" - 4")
- Full Port Stainless Steel ball
- One O-Ring design
- Blow Out Proof Stem
- UPC & NSF-61 Compliant
- AB1953 & NSF-372 Compliant

Midland Copper Press Ball Valves are a heat-free method for joining copper tubes. Our press valve allows installers the confidence to know the joint is secure due to our leak-detection o-ring. During low pressure testing, if the joint is not pressed properly, the specialized o-ring will leak. This allows the installer to correct the press before the system is operational at higher pressures.



Part Name	Material
Body	Lead Free Brass
Seat	PTFE
Ball	Stainless Steel
Stem O-Ring	NBR
Packing Nut	Brass
Stem	Brass (1/2"-2")
	Stainless Steel(2-1/2"-4")
Lock Nut	Ferrum /Zinc Plated
Lock Washer	Ferrum /Zinc Plated
Packing	PTFE
Handle	Ferrum /Chrome Plated
Cap	Lead Free Brass
Body O-Ring	NBR
Press O-Ring	EPDM

PART	SIZE	D	L	H	W	CV	
940403LF	1/2"	0.591	3.46	1.81	3.15	18.55	---
940404LF	3/4"	0.748	4.29	2.09	3.60	29.76	---
940405LF	1"	0.984	4.29	2.25	3.92	51.55	---
940406LF	1-1/4"	1.259	5.63	2.52	4.41	84.42	---
940407LF	1 1/2"	1.574	5.63	2.74	5.35	131.93	---
940408LF	2 "	1.941	5.63	3.03	6.79	200.35	---
940409LF	2 1/2"	2.520	7.76	4.25	7.46	338.43	---
940410LF	3 "	2.874	8.19	4.58	8.17	445.44	---
940411LF	4"	3.839	9.25	5.49	9.88	783.88	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

C/E PEX & PEX BALL VALVES LEAD FREE

LEAD FREE

CUPC, AB 1953, NSF/ANSI 61, NSF/ ANSI 372 (ANNEX G) NSF-14

• 400 WOG • FORGED LEAD FREE BRASS BODY • SS BALL

UNION PEX VALVE

C/E PEX X C/E PEX

- Cold Expansion
- Conforms to ASTMF 1960

PART	SIZE	
945611LF	1/2"	---
945612LF	3/4"	---
945613LF	1"	---
945614LF	1-1/4"	---
945615LF	1 1/2"	---
945616LF	2 "	---

PEX VALVE WITH DROP EAR AND DRAIN

C/E PEX X C/E PEX

WITH DRAIN AND DROP EAR

- Cold Expansion
- Conforms to ASTMF 1960

PART	SIZE	
945621LF	1/2"	---
945622LF	3/4"	---
945623LF	1"	---

MALE ADAPTER PEX VALVE

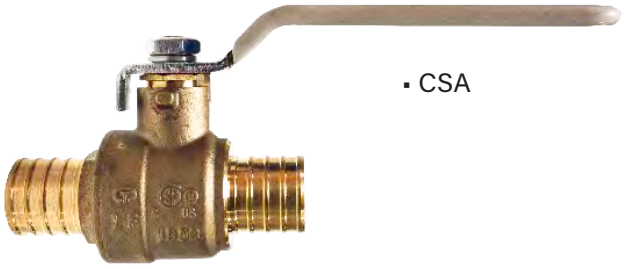
MALE PIPE X C/E PEX

- Cold Expansion
- Conforms to ASTMF 1960
- Thread conforms to ANSI B1.20.1

PART	SIZE	
945631LF	1/2"	---
945632LF	3/4"	---
945633LF	1"	---

PEX X PEX

PEX ENDS CONFORM TO ASTMF-1807



- CSA

PART	SIZE	
945601LF	1/2"	---
945602LF	3/4"	---
945603LF	1"	---
945604LF	1-1/4"	---
945605LF	1-1/2"	---
945606LF	2"	---

W/TEE HANDLE

PART	SIZE	
945640LF	3/4"	---

PEX DRAIN VALVE

- Conforms to ASTMF 1807

PART	SIZE	
945650LF	1/2"	---
945651LF	3/4"	---
945652LF	1"	---

- Dezincification resistant (D2B) Lead Free Brass material
- Cold expansion pex ends conform to ASTM F1960
- Blow out proof stem design

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LEAD FREE

LEAD FREE, FULL PORT BRASS BALL VALVES PUSH-FITTING END

FEATURES

- dezincification resistant (DZR) Lead Free Brass Material
- Push-fiting conform ASSE 1061
- Forged Brass Body
- BLow Out Proof Stem Design
- Packing Nut & Packing On the Steam Seal
- Stainless Steel Ball
- Handle with Vinyl Grip

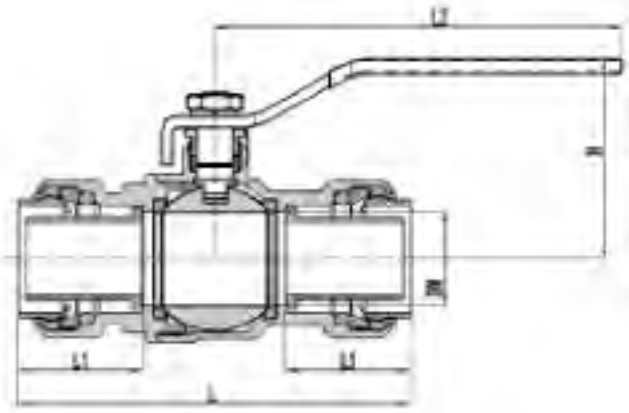
PERFORMANCE RATING

- 200 psi (CWP) 150 psi (WSP) Service
- Temperature Range: -20° F to 300° F

PUSH FIT VALVES

PART NO.	SIZE	DN	L	L1	L2	H	CV	WT(LBS.)	LIST
943750LF	1/2"	0.524	3.15	0.91	3.46	1.73	14.56		
943751LF	3/4"	0.748	3.55	1.10	3.46	1.89	29.76		
943752LF	1"	0.984	4.14	1.32	4.29	2.14	51.55		

PART NAME	MATERIAL
Body	Lead Free Brass
Seat	PTFE
Ball	Stainless Steel
Packing Nut	Brass
Stem	Brass
Lock Nut	Ferrum/Zinc Plated
Lock Washer	Ferrum/Zinc Plated
Packing	PTFE
Handle	Ferrum/Chrome Plated
Cap	Lead Free Brass
O-Ring	EPDM
Seat Ring	POM
Gripper Ring	Stainless Steel
Push Ring	POM
Lock Ring	POM
Liner	PSF



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LEAD FREE GATE/ CHECK/ Y VALVES

LF VALVES & PLBG FITTINGS

BRASS GATE VALVE IPS

- 200 WOG (Cold water, oil, gas)
- 125 WSP (Saturated Steam)

- Brass Forged body/bonList- stronger than sand castings.
- Superior quality and finish.
- Each valve individually tested.
- Threaded ends to ANSI B1.20.1, Solder ends to ANSI B16.18
- Non rising stem.
- Cast iron handle.
- NSF Approved

BRASS GATE VALVE IPS

PART#	SIZE	LIST PRICE
940130LF	1/4	---
940131LF	3/8	---
940132LF	1/2	---
940133LF	3/4	---
940134LF	1	---
940135LF	1-1/4	---
940136LF	1-1/2	---
940137LF	2	---

BRASS GATE VALVE C X C

PART#	SIZE	LIST PRICE
940142LF	1/2"	---
940143LF	3/4"	---
940144LF	1"	---
940145LF	1-1/4"	---
940146LF	1-1/2"	---
940147LF	2"	---

BRASS CHECK VALVE

NO	Part	Material
1	Cap	C37700
2	Gasket	NBR
3	Spring	Stainless Steel
4	Positioning Seat	BRASS
5	Screw	BRASS
6	Body	C37700

- NSF Approved
- ANSI 61-4

LEAD-FREE

PART #	SIZE	LIST PRICE
944430LF	1/2	---
944431LF	3/4	---
944432LF	1	---
944433LF	1-1/4	---
944434LF	1-1/2	---
944435LF	2	---
944436LF	2½	
944437LF	3	
944438LF	4	

CAST BRASS SWING CHECK VALVE IPS SCREWED ENDS

- Working pressure non-shock: 200 psi W.O.G. (cold water, oil, gas) 125 psi WSP (saturated steam)
- Swing type disc.
- Screwed Cap.
- Hard Seat.
- 90⁰ Straight Pattern.
- Used to prevent reverse flow in commercial and industrial applications.
- Threaded ends to ANSI B1.20.1. Solder ends ANSI 61-8
- Integral seat.
- NSF Approved

PART #	SIZE	LIST PRICE
940352LF	1/2"	---
940353LF	3/4"	---
940354LF	1"	---
940355LF	1-1/4"	---
940356LF	1-1/2"	---
940357LF	2"	---
940358LF	2½"	
940359LF	3"	
940360LF	4"	

C X C SWING CHECK VALVE

PART #	SIZE	LIST PRICE
940362LF	1/2	---
940363LF	3/4	---
940364LF	1	---
940365LF	1-1/4	---
940366LF	1-1/2	---
940367LF	2	---

CLASS 150 BRASS Y-PATTERN STRAINER

LEAD-FREE

PART#	SIZE	LIST PRICE
940523LF	1/2"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LF BRASS FROST FREE SILLCOCK VALVES/ ANTI SIPHON

PART#	SIZE 1/2"MIP & 1/2"SWEAT X 3/4"MHT X	D	H	L	
942150LF	6"	2.20	8.64	3.07	
942151LF	8"	2.20	12.66	3.07	
942152LF	12"	2.20	16.71	3.07	

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Bolt	Forged Brass	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Aluminium	1	N
4	Bonnet	Brass Rod	1	N
5	Washer	Stainless Steel	1	N
6	Packing	Rubber (NBR)	1	Y
7	Washer	Stainless Steel	1	Y
8	Pipe	Brass (Copper)	1	Y
9	Stem	Brass Rod	1	Y
10	Spring	Stainless Steel	1	Y
11	O-Ring	Rubber (NBR)	1	Y
12	Spring Seat	Brass Rod	1	Y
13	Flapper	Rubber (NBR)	1	Y
14	Seat	Forged Brass	1	Y
15	Seat Packing	Rubber (NBR)	1	Y
16	Screw	Forged Brass	1	Y
17	Body	Cast Brass	1	Y
18	Pipe	Brass (Copper)	1	Y
19	Nipple	Brass Rod	1	Y
20	Packing	Pom M90	1	N
21	Floating	Pom M90	1	Y
22	Floating Pk	Rubber (NBR)	1	Y
23	O-Ring	Rubber (NBR)	1	Y
24	Packing	Pom M90	1	Y
25	Cap	Brass Rod	1	Y

LEAD FREE

LEAD FREE VALVES AND PLUMBING

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LOW PRESSURE LF BRASS VALVES

LF VALVES & PLBG FITTINGS

BRASS HOSE BIBB NO KINK VALVES HEAVY DUTY

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Bolt	Hot Rolled	1	N
2	Handle	Zinc	1	N
3	Packing Nut	Brass Rod	1	N
4	Packing	Teflon Polyflon	1	Y
5	Bonnet	Brass Rod	1	Y
6	Packing	Nylon	1	Y
7	Stem	Brass Rod	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

PART#	NOMINAL SIZE	D	H	L	MIP	LIST
942110LF	1/2" MIP & 1/2" Sweat x 3/4" MHT	2.12	1.97	2.87	1/2"-14NPT	
942111LF	3/4" MIP x 3/4" MHT	2.12	1.97	2.97	3/4"-14NPT	

BRASS HOSE BIBB NO KINK VALVES HEAVY DUTY

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Bolt	Hot Rolled	1	N
2	Handle	Zinc	1	N
3	Packing Nut	Brass Rod	1	N
4	Packing	Teflon Polyflon	1	Y
5	Bonnet	Brass Rod	1	Y
6	Packing	Nylon	1	Y
7	Stem	Brass Rod	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

PART#	NOMINAL SIZE	D	H	L	MIP	
942112LF	1/2" FIP x 3/4" MHT	2.12	1.97	2.87	1/2"-14NPT	
942113LF	3/4" FIP x 3/4" MHT	2.12	1.97	2.97	3/4"-14NPT	

BRASS HOSE BIBB NO KINK VALVES HEAVY DUTY

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Bolt	Hot Rolled	1	N
2	Handle	Zinc	1	N
3	Packing Nut	Brass Rod	1	N
4	Packing	Teflon Polyflon	1	Y
5	Bonnet	Brass Rod	1	Y
6	Packing	Nylon	1	Y
7	Stem	Brass Rod	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

PART#	NOMINAL SIZE	D	H	L	
942123LF	3/4" FTG & 1/2" SWEAT x 3/4" MHT	2.12	1.97	2.87	

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LEAD FREE

LF BRASS BOILER DRAIN - ANGLE

PART#	NOMINAL SIZE	D	H	L	FIP	
942132LF	1/2" FIP x 3/4" MHT	2.08	3.35	1.46	1/2"-14NPT	
942133LF	3/4" FIP x 3/4" MHT	2.08	3.35	1.46	3/4"-14NPT	

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Bolt	Hot Rolled	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Zinc	1	N
4	Packing Nut	Brass Rod	1	N
5	Packing	Teflon Polyflon	1	Y
6	Bonnet	Brass Rod	1	Y
7	Packing	Nylon	1	Y
8	Stem	Brass Rod	1	Y
9	Seat Packing	Rubber (NBR)	1	Y
10	Screw	Forged Brass	1	Y
11	Body	Cast Brass	1	Y

LF BOILER DRAIN - ANGLE

PART#	NOMINAL SIZE	D	H	L	MIP	
942134LF	1/2"MIP & 1/2" SWEAT X 3/4" MHT	2.08	3.50	1.46	1/2"-14NPT	
942135LF	3/4" MIP x 3/4" MHT	2.08	3.58	1.46	3/4"-14NPT	

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Nut	Hot Rolled	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Cast Iron	1	N
4	Packing Nut	Brass Rod	1	N
5	Packing	Rubber (NBR)	1	Y
6	Bonnet	Cast Brass	1	Y
7	Stem	Cast Brass	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

LF BRASS BOILER DRAIN SPOUT

PART#	NOMINAL SIZE	D	H	L	MIP	
942162LF	1/2" MIP & 1/2" Sweat x 3/4" MHT	2.12	2.16	1.14	1/2"-14NPT	
942163LF	3/4" MIP x 3/4" MHT	2.12	2.16	1.14	3/4"-14NPT	

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Nut	Hot Rolled	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Cast Iron	1	N
4	Packing Nut	Brass Rod	1	N
5	Packing	Rubber (NBR)	1	Y
6	Bonnet	Cast Brass	1	Y
7	Stem	Cast Brass	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

LF BRASS BOILER DRAIN SPOUT

PART#	NOMINAL SIZE	D	H	L	FIP	
942164LF	1/2" FIP X 3/4" MHT	2.12	2.16	1.14	1/2"-14NPT	
942165LF	3/4" FIPT X 3/4" MHT	2.12	2.16	1.14	3/4"-14NPT	

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Bolt	Hot Rolled	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Zinc	1	N
4	Packing Nut	Brass Rod	1	N
5	Packing	Teflon Polyflon	1	Y
6	Bonnet	Brass Rod	1	Y
7	Packing	Nylon	1	Y
8	Stem	Brass Rod	1	Y
9	Seat Packing	Rubber (NBR)	1	Y
10	Screw	Forged Brass	1	Y
11	Body	Cast Brass	1	Y

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LOW PRESSURE LF BRASS VALVES

LF VALVES & PLBG FITTINGS

LF SILLCOCK VALVE WITH PEX CONNECTIONS

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Nut	Hot Rolled	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Cast Iron	1	N
4	Packing Nut	Brass Rod	1	N
5	Packing	Rubber (NBR)	1	Y
6	Bonnet	Cast Brass	1	Y
7	Stem	Cast Brass	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

PART#	NOMINAL SIZE	B	C	D	H	L	
942142LF	1/2" PEX F1807 x 3/4" MHT	2.58	0.22	2.09	2.40	2.34	
942143LF	3/4" PEX F1807 x 3/4" MHT	2.58	0.22	2.09	2.40	2.40	

LF SILLCOCK VALVE WITH PEX CONNECTIONS (COLD EXPANSION)

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Nut	Hot Rolled	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Cast Iron	1	N
4	Packing Nut	Brass Rod	1	N
5	Packing	Rubber (NBR)	1	Y
6	Bonnet	Cast Brass	1	Y
7	Stem	Cast Brass	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

PART#	NOMINAL SIZE	B	C	D	H	L	
942144LF	1/2" PEX F1960 x 3/4" MHT	2.58	0.22	2.08	2.40	2.34	
942145LF	3/4" PEX F1960 x 3/4" MHT	2.58	0.22	2.08	2.40	2.40	

VACUUM BREAKER

- Male hose and female hose threads can be broken off for permanent attachment
- Set screw
- Vandal proof
- Rough brass construction
- Prevents back-siphonage on hoses to prevent potable water from getting contaminated
- Certified under ASSE Std. 1011
- UPC
- CSA

PART #	SIZE	LIST PRICE
947055	3/4" x 3/4"	---
947055LF	3/4" x 3/4"	---

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SUPPLY STOPS - 1/4 TURN

- 100% Pressure Leak Tested
- High Performance Teflon Seats
- Individually Boxed
- Conventional Oval Handle Design
- Meets or Exceeds ASME A112.18.1

ANGLE STOPS

PART #	X 3/8 COMPRESSION	LIST PRICE
746456	5/8 Compression	---

PART #	X 3/8 COMPRESSION	LIST PRICE
746457	5/8 Compression Contractor Pack bagged less 3/8" Nut & Ferrule 10/Box	---

PART #	X 3/8 COMPRESSION	LIST PRICE
746436	3/8 Female Iron Pipe	---
746446	1/2 Female Iron Pipe	---

PART #	X 3/8 COMPRESSION	LIST PRICE
746466	LF 1/2 Nominal Sweat	---

PART #	X 3/8 COMPRESSION	LIST PRICE
746435	1/2 C/E Pex	---

PART #	X 3/8 COMPRESSION	LIST PRICE
746438	1/2 Nominal Pex	---

PART #	X 1/4 COMPRESSION	LIST PRICE
746437	1/2 Nominal Pex	---

PRESS FIT

PART #	X 3/8 COMPRESSION	LIST PRICE
746470	1/2 Press	

3 WAY STOPS

PART #	DESCRIPTION	LIST PRICE
746439	LF 5/8 Compression x 3/8 Compression x 1/4 Compression	---
746440	LF 5/8 Compression x 3/8 Compression x 3/8 Compression	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SUPPLY STOPS/ SS SUPPLY CONNECTORS

LF VALVES & PLBG FITTINGS

STRAIGHT STOPS

PART #	X 3/8 COMPRESSION	LIST PRICE
746506	3/8 Compression	---
746556	5/8 Compression	---

PART #	X 3/8 COMPRESSION	LIST PRICE
746536	3/8 Female Iron Pipe	---
746546	1/2 Female Iron Pipe	---

PART #	X 3/8 COMPRESSION	LIST PRICE
746566	1/2 Nominal Sweat	---

PART #	X 3/8 COMPRESSION	LIST PRICE
746535	1/2 C/E Pex	---

PART #	X 3/8 COMPRESSION	LIST PRICE
746538	1/2 Nominal Pex	---

PART #	X 1/4 COMPRESSION	LIST PRICE
746537	1/2 Nominal Pex	---

PART #	X 3/8 COMPRESSION	LIST PRICE
746567	1/2 Socket CPVC	---

PRESS FIT STOPS

PART #	X 3/8 COMPRESSION	LIST PRICE
746570	1/2" Press	

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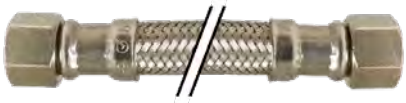
LEAD FREE
AB1953/S.152
COMPLIANT
Meets S.3874/ Public Law No. 111-380
Reduction of Lead in Drinking Water Act

CONNECTORS
- Marine Grade Stainless Steel Braid
- Precision 12 Point Crimp
- Heavy duty Brass Inserts
- Chloramine/ Chlorine Resistant Inner Liner

LAVATORY



3/8 COMPRESSION X 3/8 COMPRESSION

PART #	LENGTH	LIST PRICE
922012	12"	---
922016	16"	---
922020	20"	---
922030	30"	---
922036	36"	---

3/8 COMPRESSION X 1/2 FEMALE IRON PIPE

922112	12"	---
922116	16"	---
922120	20"	---
922130	30"	---
922136	36"	---

1/2 FEMALE IRON PIPE X 1/2 FEMALE IRON PIPE

922412	12"	---
922416	16"	---
922420	20"	---
922430	30"	---
922436	36"	---

NEW WITH BRASS NUT

BALLCOCK

3/8 COMPRESSION X 7/8 BALLCOCK

923409	9"	---
923412	12"	---
923416	16"	---
923420	20"	---

3/8 COMPRESSION X 7/8 BALLCOCK

923209	9"	---
923212	12"	---
923216	16"	---
923220	20"	---

1/2 FEMALE IRON PIPE X 7/8 BALLCOCK

923509	9"	---
923512	16"	---
923520	20"	---

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SS SUPPLY CONNECTORS

LF VALVES & PLBG FITTINGS

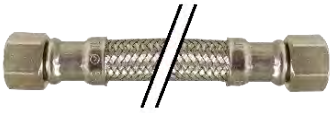
- Marine Grade Stainless Steel Braid
- Precision 12 Point Crimp
- Heavy duty Brass Inserts
- Chloramine/ Chlorine Resistant Inner Liner

LEAD FREE

AB1953/S.152 Compliant

Meets S.3874/ Public Law No. 111-380 Reduction of Lead in Drinking Water Act

ICE MAKER



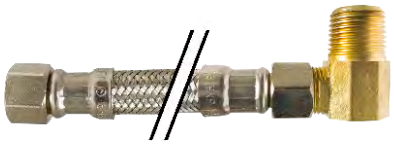
1/4 COMPRESSION X 1/4 COMPRESSION

PART #	LENGTH	LIST PRICE
923112	12"	---
923124	24"	---
923136	36"	
923148	48"	
923161	60"	
923196	96"	---

DISHWASHER

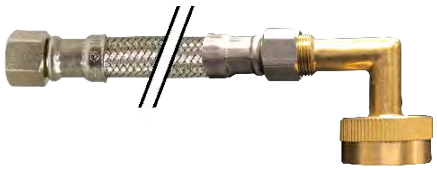
3/8 COMPRESSION X 3/8 COMPRESSION

922009	9"	---
922012	12"	---
922024	24"	
922030	30"	---
922036	36"	---
922048	48"	---
922060	60"	---
922072	72"	---
922096	96"	---



3/8 COMPRESSION X 3/8 MALE IRON PIPE ELBOW

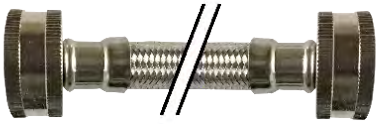
PART #	L	LIST PRICE
923648	48"	---
923660	60"	---
923672	72"	---
923684	84"	---



3/8 COMPRESSION X 3/4 FEMALE GARDEN HOSE ELBOW

924248	48"	---
924260	60"	---
924272	72"	---
924284	84"	---
924297	120"	---

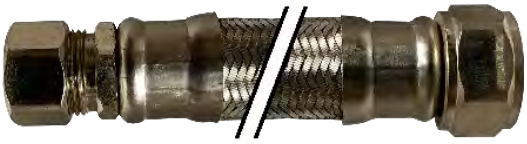
WASHING MACHINE



3/4 FEMALE GARDEN HOSE X 3/4 FEMALE GARDEN HOSE

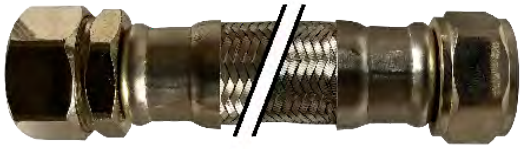
923936	36"	---
923948	48"	---
923960	60"	---
923972	72"	---

WATER HEATER



5/8 COMPRESSION X 3/4 FEMALE IRON PIPE

PART #	L	LIST PRICE
922712	12"	---
922718	18"	---
922724	24"	---

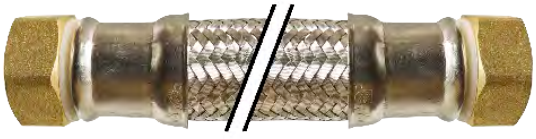


7/8 COMPRESSION X 3/4 FEMALE IRON PIPE

922812	12"	---
922818	18"	---
922824	24"	---

3/4 MALE IRON PIPE X 3/4 FEMALE IRON PIPE

922912	12"	---
922918	18"	---
922924	24"	---



3/4 FEMALE IRON PIPE X 3/4 FEMALE IRON PIPE

924115	12"	---
924118	18"	---
924124	24"	---

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PEX CLAMP

MIDLAND	SIZE	LIST PRICE
35210	1/2"	
35211	3/4"	
35212	1"	

STD PEX X MALE NPT ADAPTER

MIDLAND	SIZE	LIST PRICE
35276	1/2" STD Pex x 1/2" Male NPT	
35277	1/2" MPT x 1/2" Male NPT	
35278	1/2" STD Pex x 3/4" Male NPT	
35279	3/4" STD Pex x 1/2" Male NPT	
35280	3/4" STD Pex x 3/4" Male NPT	
35281	1" STD Pex x 1" Male NPT	

STD PEX X FEMALE NPT ADAPTER

MIDLAND	SIZE	LIST PRICE
35263	1/2" STD Pex x 1/2" Female NPT	
36264	3/4" STD Pex x 3/4" Female NPT	
36265	1" STD Pex x 1" Female NPT	

STD PEX X FEMALE NPSM ADAPTER

MIDLAND	SIZE	LIST PRICE
35268	3/8" STD Pex x 1/2" Female NPSM	
36269	1/2" STD Pex x 1/2" Female NPSM	
35270	1/2" STD Pex x 3/4" Female NPSM	
35271	3/4" STD Pex x 3/4" Female NPSM	
35272	3/4" STD Pex x 3/4" Female NPSM	
35273	1/2" STD Pex x 1/2" Female NPSM	

STD PEX TEE

MIDLAND	SIZE	LIST PRICE
35240	3/8"	
35241	1/2"	
35243	3/4"	
35244	1"	

PEX PLUG

MIDLAND	SIZE	LIST PRICE
35290	1/2"	
35291	3/4"	
35292	1"	

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PEX ADAPTERS

LF VALVES & PLBG FITTINGS

PEX TEE

MIDLAND	SIZE	LIST PRICE
35242	1/2" STD Pex x 1/2" STD Pex x 1/2" Male	
35246	1/2" STD Pex x 3/4" STD Pex	
35247	3/4" STD Pex x 1/2" Pex x 1/2" Pex	
35248	3/4" STD Pex x 1/2" Pex x 3/4" Pex	
35249	3/4" STD Pex x 3/4" Pex x 1/2" Pex	
35250	3/4" STD Pex x 3/4" Pex x 1" Pex	
35251	1" STD Pex x 3/4" Pex x 3/4" Pex	
35252	1" STD Pex x 1" Pex x 1/2" Pex	
35253	1" STD Pex x 1" Pex x 3/4" Pex	
35254	1" STD Pex x 3/4" Pex x 1" Pex	

PEX COUPLING

MIDLAND	SIZE	LIST PRICE
35231	1/2"	
35232	3/4"	
35233	1"	

PEX COUPLING

MIDLAND	SIZE	LIST PRICE
35235	1/2" STD Pex x 3/8" STD Pex	
35236	3/4" STD Pex x 1/2" STD Pex	
35237	1" STD Pex x 3/4" STD Pex	
35238	1" STD Pex x 1/2" STD Pex	

PEX ELBOW

MIDLAND	SIZE	LIST PRICE
35257	3/8"	
35258	1/2"	
35260	3/4"	
35261	1"	
35259	3/4"	

PEX MALE ELBOW

MIDLAND	SIZE	LIST PRICE
35284	1/2" STD Pex x 3/8" Male	
35285	1/2" STD Pex x 1/2" Male	
35286	3/4" STD Pex x 1/2" Male	
35287	3/4" STD Pex x 3/4" Male	

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BRASS CPVC MALE ADAPTER

PART#	SIZE	LIST PRICE
35413LF	1/2"	---
35414LF	3/4"	---
35415LF	1"	---
35416LF	1-1/4"	---
35417LF	1-1/2"	---
35418LF	2	---

STAINLESS STEEL CPVC MALE ADAPTER

PART#	SIZE	LIST PRICE
35413SS	1/2"	---
35414SS	3/4"	---
35415SS	1"	---
35416SS	1-1/4"	---
35417SS	1-1/2"	---
35418SS	2	---

BRASS CPVC FEMALE ADAPTER

PART#	SIZE	LIST PRICE
35403LF	1/2"	---
35404LF	3/4"	---
35405LF	1"	---
35406LF	1-1/4"	---
35407LF	1-1/2"	---
35408LF	2	---

STAINLESS STEEL CPVC FEMALE ADAPTER

PART#	SIZE	LIST PRICE
35403SS	1/2"	---
35404SS	3/4"	---
35405SS	1"	---
35406SS	1-1/4"	---
35407SS	1-1/2"	---
35408SS	2	---

LEAD FREE CPVC DROP EAR ELBOW

PART#	SIZE	LIST PRICE
35420LF	1/2"	---

STAINLESS STEEL CPVC DROP EAR ELBOW

PART#	SIZE	LIST PRICE
35420SS	1/2"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

WATER METER FLANGES
LF VALVES & PLBG FITTINGS

LEAD FREE OVAL WATER METER FLANGE OVAL

PART#	SIZE	CASE	
970207	1-1/2"	32	---
970208	2"	48	---

LEAD FREE OVAL WATER METER KIT
W/ BOLT & NUT STAINLESS STEEL

NO	PART	MATERIALS	QTY	WATER CONTACT
1	BOLT	SS 304	4	N
2	FLANGE	BRASS LEAD FREE	2	Y
3	PACKING	RUBBER	2	Y
4	NUT	SS 304	4	N

PART#	SIZE	CASE	
970227	1-1/2"	32	---
970228	2"	48	---

LEAD FREE OVAL METER FLANGE KIT
W/ BOLT & NUT STAINLESS STEEL (NO LEAD)

NO	PART	MATERIALS	QTY	WATER CONTACT
1	BOLT	SS 304	2	N
2	FLANGE	BRASS LEAD FREE	1	Y
3	PACKING	RUBBER	1	Y
4	NUT	SS 304	2	N

PART#	SIZE	CASE	
970217	1-1/2"	12	---
970218	2"	10	---

LEAD FREE BRASS METER COUPLING

PART#	SIZE	CASE	
970253	1/2"	100	---
970254	3/4"	100	---
970255	1"	80	---
970257	1-1/2"	24	---
970258	2"	24	---

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FLEXIBLE RUBBER COUPLINGS / REDUCED COUPLINGS

Midland's stainless steel banded flexible rubber couplings are the perfect fit for Schedule 40 pipe applications.

Tech Specs:
- Installation torque: 60 inch lbs.
- Maximum test pressure: 4.3 PSI
- Maximum operating temperature: 140° F non-consistent
- Minimum operating temperature: -30° F

- Corrosion-resistant & rustproof stainless steel bands
- Durable Rubber for all Sch. 40 Pipe Applications
- Positive seal against infiltration and exfiltration
- Conforms to ASTM C 1173 and CSA B602
- Sizes 1-1/4" - 6" regular & reducing
- UPC Approved

COUPLING

REDUCING COUPLING

PART #	SIZE	LIST
195456	1-1/4"	
195470	1-1/2" x 1-1/4"	
195457	1-1/2"	
195471	2" x 1/2"	
195458	2"	
195472	3" x 1-1/2"	
195473	3" x 2"	
195459	3"	
195474	4" x 1-1/2"	
195475	4" x 2"	
195476	4" x 3"	
195460	4"	
195461	5"	
195481	6" x 4"	
195462	6"	

TEST CAPS

PART #	SIZE	LIST
195502	1-1/2"	
195510	2"	
195511	3"	
195512	4"	

DRAIN & TRAP CONNECTORS

PART #	SIZE	LIST
195520	1-1/2" x 1-1/4"	
195521	2" x 1-1/4"	

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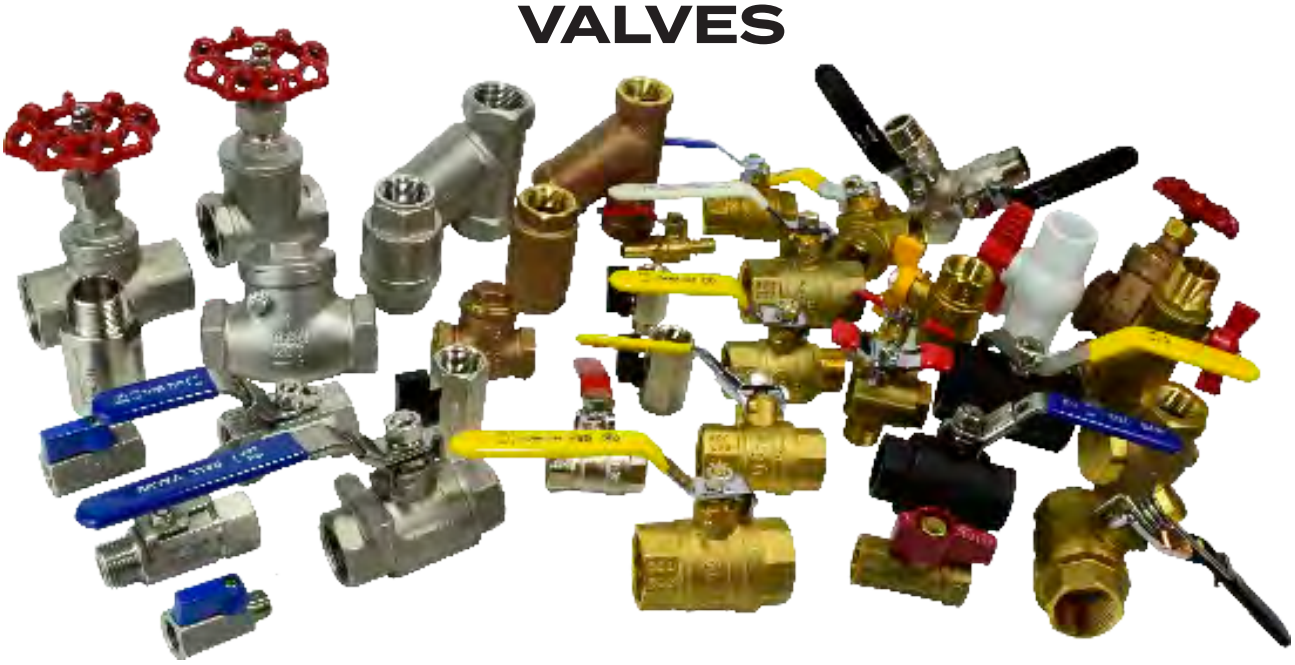
VALVES



VALVES

Forged Brass
Full Port Ball
Locking Handle
Butterfly Handle
N/P Ball Valve
Italian Ball Valve
M X F Ball Valve
Spring Handle Ball Valve
Right Angle Ball valve
Wye, 3-Way Ball Valve
Safety Exhaust Ball Valve
Gas Valves
Mini Ball Valves
3-Way Valves
MISC
Gate Valves
Y Strainer
Check Valves

Stainless Steel Valves

Ball Valves
SS Mini Ball Valve
Check Valves
Y-strainer, Globe,Gate

Carbon Steel Valves
Ball Valves
Check Valves

PVC Valves

Ductile Iron

Butterfly
Check
Gate

BALL VALVE PRIVATE LABEL PROGRAM

Midland will put your company name and logo on our ball valve handle for FREE. Simply place a minimum blanket order of 10 cases per size and Midland will stock them under a special part # for your access only. Please allow 90-120 days for delivery on the first shipment only: Then have them delivered as you need them!

FORGED BRASS BALL VALVE

• BRASS • 600WOG • FULL PORT

UL842, UL258, UL125,FM

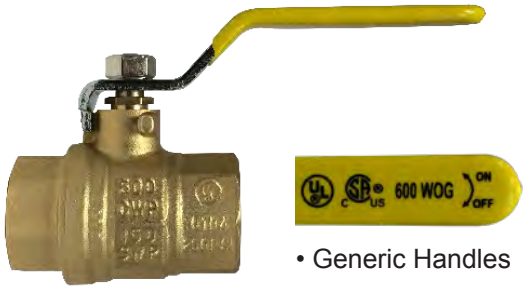
ISO 9002 Manufacturer

FEATURES

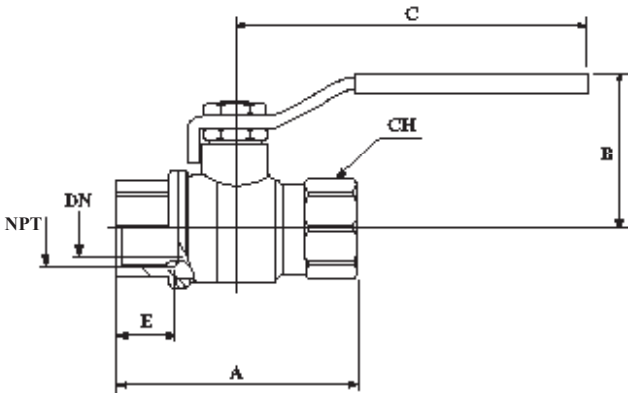
Made in China

1/4-2" 600 PSI non-shock cold water, gas, oil - 150 PSI saturated steam
2-1/2"- 4" 400 PSI non-shock cold water, gas, oil

- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated for 1/4"-2" at 600psi (42 bars) and 2-1/2"-4" at 400 psi WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin PTFE stem packing seal, thrust washer and seats
- Yellow vinyl insulator on heavy duty plated carbon steel handles
- Fast 1/4 turn open or close operation
- Not Lead Free
- Good for gasoline and diesel
- Low operating torque
- Adjustable stem packing gland
- Maximum operating temperature: 302^{0}F (150^0 C)
- Minimum operating temperature: -22^{0}F (-30^{0}C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections



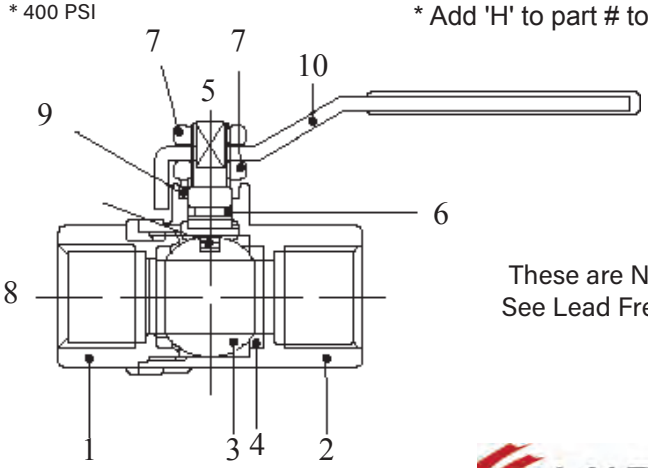
• Generic Handles



PART#	SIZE	DIMENSION INCHES						WEIGHT	BOX/CASE	LIST PRICE
	NPT	DN	A	B	C	E	CH			
940171	1/4"	0.39	1.75	1.92	3.54	0.46	0.78	0.34	70/140	---
940172	3/8"	0.41	1.75	1.92	3.54	0.46	0.78	0.30	70/140	---
940173	1/2"	0.58	2.05	2.08	3.54	0.52	0.98	0.44	50/100	---
940174	3/4"	0.75	2.36	2.30	3.78	0.56	1.20	0.67	30/60	---
940175	1"	0.94	2.75	2.68	4.52	0.66	1.50	1.05	20/40	---
940176	1-1/4"	1.26	3.30	3.14	4.52	0.70	1.82	1.50	12/24	---
940177	1-1/2"	1.57	3.66	3.61	5.51	0.72	2.09	2.30	9/18	---
940178	2"	1.97	4.18	3.68	5.51	0.74	2.62	3.38	6/12	---
940179*	2-1/2"	2.52	5.38	4.76	8.66	1.01	3.36	7.61	3/6	---
940180*	3"	2.95	6.04	5.08	8.66	1.11	3.86	11.10	2/4	---
940181*	4"	3.89	7.38	5.86	9.00	1.22	4.89	12.12	1/2	---

* 400 PSI

* Add 'H' to part # to order handles *



These are NOT Lead Free
See Lead Free SWT Valves

POS	Components	Materials	N
1	Body	Forged Brass	1
2	End Connection	Forged Brass	1
3	Ball	CP Brass	1
4	Ball Seat	P.T.F.E.	2
5	Stem	Brass	1
6	Gland	Brass	1
7	Nut	Steel	1
8	Spring Inseat	Steel	1
9	Stem Seal	P.T.F.E.	1
10	Handle	Steel	1

▪ Not Lead Free AB1953 Compliant

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LOCKING HANDLE BALL VALVE

▪ BRASS ▪ 600WOG ▪ FULL PORT

See specs on previous page

• Generic Handles

PART#	SIZE	DIMENSION INCHES						WEIGHT	BOX/CASE	LIST PRICE
	NPT	DN	A	B	C	E	CH			
940171L	1/4"	0.31	1.73	1.84	3.15	0.49	0.71	0.39	70/140	---
940172L	3/8"	0.39	1.81	1.88	3.86	0.49	0.79	0.35	70/140	---
940173L	1/2"	0.58	2.23	2.09	3.43	0.61	0.98	0.49	50/100	---
940174L	3/4"	0.75	2.48	2.24	3.62	0.62	1.20	0.78	30/60	---
940175L	1"	0.94	2.95	2.67	4.42	0.73	1.50	1.18	20/40	---
940176L	1-1/4"	1.26	3.42	3.05	4.73	0.77	1.81	1.76	12/24	---
940177L	1-1/2"	1.57	3.78	3.51	5.18	0.78	2.09	2.53	9/18	---
940178L	2"	1.97	4.18	3.84	5.24	0.75	2.60	3.53	6/12	---

BUTTERFLY HANDLE BALL VALVE

▪ BRASS ▪ 600WOG ▪ FULL PORT

See specs on previous page

PART#	SIZE						WEIGHT	BOX/CASE	LIST PRICE
	NPT	A	B	C	D	E			
940171T	1/4"	1.75	1.488	1.831	0.315	0.457	0.342	70/140	---
940172T	3/8"	1.756	1.488	1.831	0.394	0.457	0.31	70/140	---
940173T	1/2"	2.047	1.756	2.394	0.583	0.520	0.44	50/100	---
940174T	3/4"	2.362	1.921	2.394	0.748	0.563	0.68	30/60	---

▪ Not Lead Free AB1953 Compliant

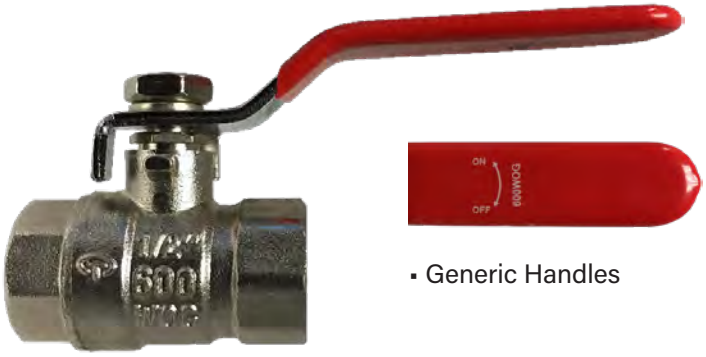
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED BALL VALVE

• BRASS • 600WOG • FULL PORT • NO APPROVALS

Vacuum service to 29 inches Hg
600 psi (WOG) 150 psi (WSP) Service
Thread conform ANSI B1.20.1
Temperature Range : -40° F to 365° F
Construction:Forging Brass Body, Nickel plated
PTFE Ball Seats
Blow Out Proof Brass Stem
Steel Handle w/Vinyl Grip
Made in China

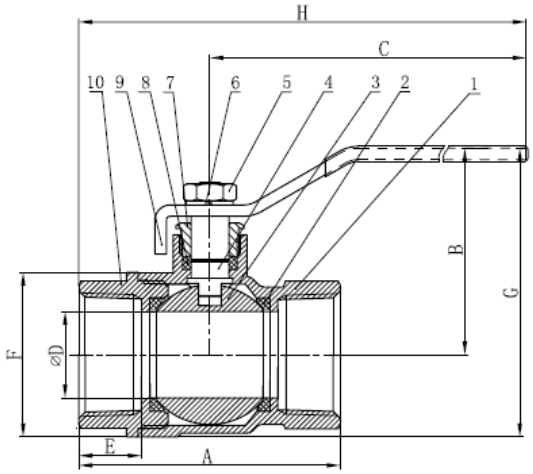
▪ Not Lead Free



▪ Generic Handles

FIP X FIP NICKEL PLATED BALL VALVE

PART #	SIZE	OD	A	B	C	E	F	G	H	WEIGHT	BOX/CASE	LIST PRICE
941151NP	1/4"	0.394	1.73	1.69	3.35	0.453	0.945	2.154	4.331	0.32	10/120	---
941152NP	3/8"	0.394	1.73	1.69	3.35	0.473	0.945	2.154	4.331	0.32	10/120	---
941153NP	1/2"	0.524	1.89	1.73	3.35	0.472	1.083	2.276	4.291	0.36	10/100	---
941154NP	3/4"	0.748	2.28	1.89	3.35	0.563	1.378	2.579	4.488	0.57	10/80	---
941155NP	1"	0.984	2.80	2.14	4.29	0.650	1.772	3.031	5.689	0.65	8/48	---
941156NP	1-1/4"	1.240	3.15	2.32	4.29	0.669	2.165	3.398	5.866	1.75	4/36	---
941157NP	1-1/2"	1.476	3.44	2.66	5.63	0.701	2.50	3.909	7.343	2.10	2/24	---
941158NP	2"	1.949	4.06	3.01	5.63	0.708	3.244	4.638	7.638	3.35	2/12	---



No	Item	Qty	Material
1	Body	1	NP Brass
2	Seat	2	PTFE
3	Ball	1	Brass CP
4	Stem	1	Brass/ NP
5	Handle Nut	1	Plated Steel
6	Lock Washer	1	Plated Steel
7	Packing Nut	1	Brass/ NP
8	Packing	1	PTFE

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

Gas Approved

UL842, UL258, UL125,FM

CSA AGA 3.88 5 PSIG

N/P BALL VALVE W/SS TRIM

• NICKEL PLATED • SS BALL, HANDLE, NUT & STEM
• LOCKING HANDLE • W/APPROVALS

Features

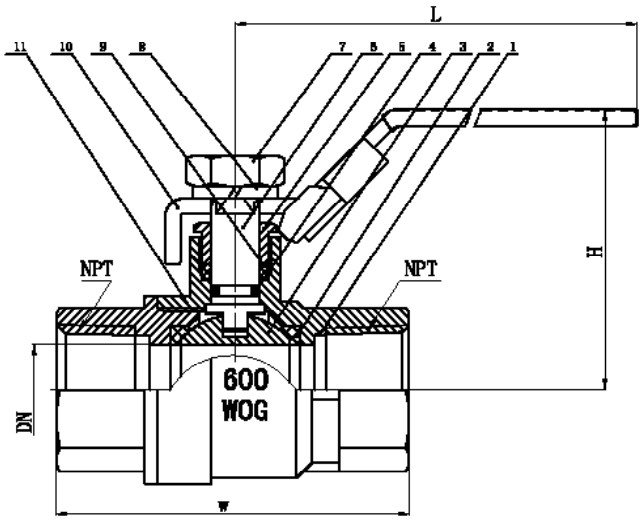
- **Vacuum service to 29 inches Hg**
- Thread Conform ANSI B1.20.1
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Stainless Steel Ball, Handle, Nut&Stem
- Handle With Vinyl Grip

Performance rating

- 600 PSI (WOG) 150 PSI (WSP) Service
- Temperature range: -20° F to 300° F
- Made in China
- Not lead free
- No more rusty handles

• Generic Handles

PART#	SIZE	D	L	H	W	CV	WT.(LBS.)	BOX/CASE	LIST PRICE
941121NP	1/4	0.394	3.22	1.84	1.73	8.23	0.326	10/120	---
941122NP	3/8	0.394	3.22	1.84	1.73	8.23	0.320	10/120	---
941123NP	1/2	0.591	3.22	2.02	2.24	18.55	0.474	10/100	---
941124NP	3/4	0.748	4.04	2.40	2.52	29.76	0.785	10/80	---
941125NP	1	0.984	4.08	2.20	2.97	51.55	1.155	8/48	---
941126NP	1-1/4	1.259	5.20	3.05	3.44	84.42	1.797	4/36	---
941127NP	1 1/2	1.574	5.20	3.18	3.88	131.93	2.447	2/24	---
941128NP	2	1.941	5.20	3.48	4.33	200.35	3.477	2/12	---



Part Name	Material
Body	Brass/ Nickel Plated
Seat	PTFE
Ball	Stainless Steel
O-ring	Fluoroelastomer
Packing Nut	Brass/ Nickel Plated
Stem	Stainless Steel
Handle Nut	Stainless Steel
Lock Washer	Stainless Steel
Packing	PTFE
Handle	Stainless Steel
Cap	Brass/ Nickel Plated

WARNING: This product can expose you to chemicals, including chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ITALIAN BALL VALVE

• BRASS • 600WOG • FULL PORT

ISO 9002 Manufacturer

FEATURES

CSA AGA 3.88 5 PSIG

UL842, UL258, UL125,FM

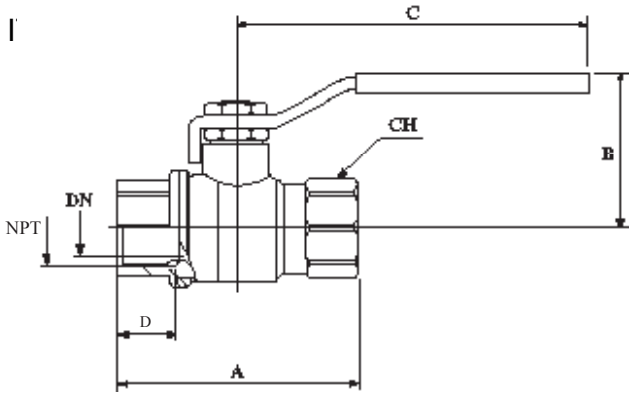
IAMPO IGC 157 - 2004b

- **SOLID CHROME PLATED BRASS BALL**
- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation
- Low operating torque
- Flow can go both directions
- Generic Handles

- **Adjustable stem packing gland**
- Maximum operating temerature: 248^{0}F (120^0 C) at 600 PSI
- Minimum operating temperature: -20^{0}F (-40^{0}C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections
- REVERSIBLE HANDLES

MADE IN I

Female x Female



PART#	SIZE	DIMENSION INCHES						WEIGHT	BOX/CASE	LIST PRICE
	NPT	DN	A	B	C	D	CH			
943200	1/4"	.39	1.96	1.53	3.31	.43	.75	0.36	24/96	---
943201	3/8"	.39	1.96	1.53	3.31	.43	.86	0.40	24/96	---
943202	1/2"	.57	2.09	1.57	3.25	.46	.98	0.44	20/80	---
943203	3/4"	.75	2.28	1.77	3.80	.49	1.22	0.57	14/56	---
943204	1"	.94	2.80	2.03	3.80	.59	1.50	0.89	6/24	---
943205	1-1/4"	1.24	3.50	2.32	4.72	0.72	1.85	1.64	4/16	---
943206	1-1/2"	1.49	3.90	3.02	6.38	0.85	2.13	2.78	2/8	---
943207	2"	1.96	4.07	3.27	6.38	.65	2.64	3.21	2/8	---
942208	2-1/2"	2.48	5.80	4.98	7.54	1.06	3.31	6.97	5	---
942209	3"	2.99	6.85	5.63	8.86	1.14	3.89	10.34	3	---
942210	4"	3.54	7.67	6.04	8.86	1.22	4.80	18.77	1	---

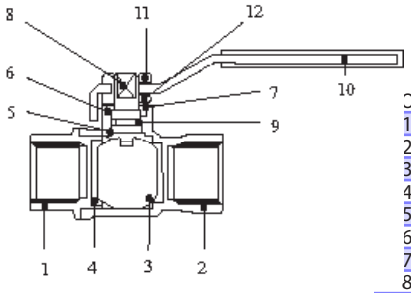
HANDLE OPTIONS

TEE HANDLES

PART #	VALVE SIZE	LIST PRICE
43200T	1/4" - 3/4"	---

LOCKING HANDLES

PART #	VALVE SIZE	LIST PRICE
43200L	1/4" - 3/4"	---
43204L	1"	---
43206L	1-1/4" - 1-1/2"	---



OS	Components	Materials	N
1	Body	Forged Brass	1
2	End Connection	Forged Brass	1
3	Ball	CP Brass	1
4	Ball Stems	P.T.F.E.	2
5	Stem Antif. Seat	P.T.F.E.	1
6	Stem Seat	P.T.F.E.	1
7	Brass Ring	Brass	1
8	Stem	Brass	1
9	O-Ring	NBR 80	1
10	Handle	Steel	1
11	Nut	Steel	1
12	Nut	Brass	1

- **Not Lead Free AB1953 Compliant**

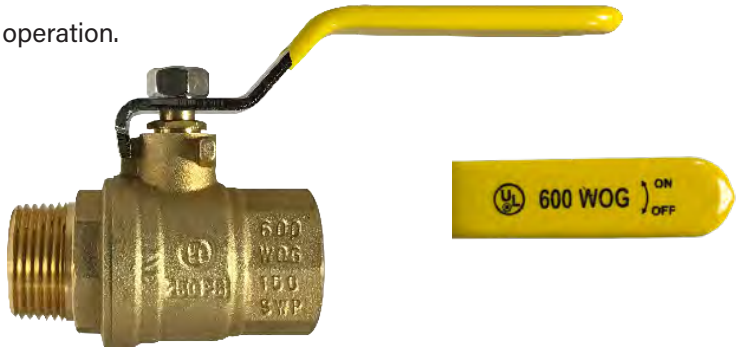
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MALE X FEMALE BRASS BALL VALVE

• 600WOG • FULL PORT

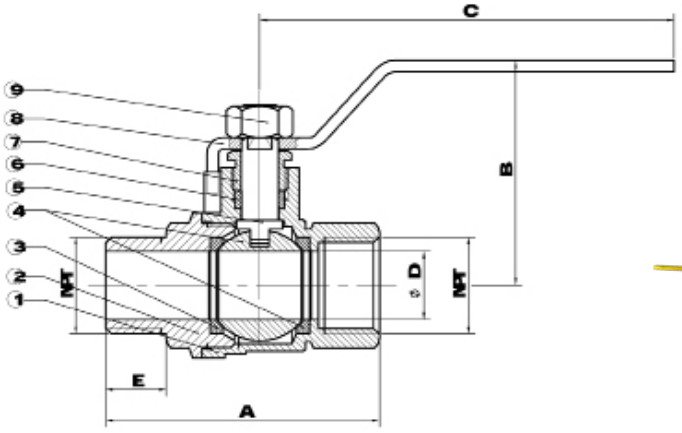
UL842, UL258

- Solid chrome plated brass ball
- Suitable for full range of liquids and gases.
- Minimal pressure drop due to large full size ports.
- Bottom loaded, pressure retaining stem.
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150psi (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation.
- Flow both directions.
- Low operating torque.
- Adjustable stem packing gland.
- Generic Handles
- Maximum operating temperature: 248°F (120°C)
- Minimum operating temperature: -20°F (-40°C)
- Each valve individually tested.
- Forged Brass - for more strength.
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball



- Not Lead Free

PART#	SIZE	NPT	A	B	C	D	E	WEIGHT	BOX/CASE	LIST PRICE
948170	1/4"	1/4 - 18	2.016	1.689	2.756	0.315	0.457	0.29	70/140	---
948171	3/8"	3/8 - 18	2.094	1.89	3.543	0.394	0.457	0.33	70/140	---
948172	1/2"	1/2 - 14	2.343	2.05	3.543	0.583	0.520	0.47	50/100	---
948173	3/4"	3/4 - 14	2.618	2.20	3.780	0.748	0.563	0.68	30/60	---
948174	1"	1 - 11.5	3.000	2.579	4.528	0.945	0.630	1.11	20/40	---
948175	1-1/4"	1-1/4 - 11.5	3.563	2.953	4.528	1.260	0.709	1.70	12/24	---
948176	1-1/2"	1-1/2 - 11.5	3.965	3.346	5.512	1.575	0.717	2.50	9/18	---
948177	2"	2 - 11.5	4.496	3.681	5.512	1.969	0.748	3.57	6/12	---



POS	Components	Materials
1	Body	C37700
2	End Cap	CS7700
3	Ball Seat	PTFE
4	Ball	CS7700
5	Stem	CS7700
6	Stem Reducing	PTFE
7	Reducing Nut	CS7700
8	Lever Handle	1008

Locking Handle option

Tee handle option

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ITALIAN MALE X FEMALE BALL VALVE

• BRASS • 600WOG • FULL PORT

Gas Approved

CSA AGA 3.88 5 PSIG

UL842, UL258, UL125,FM

Made in Italy

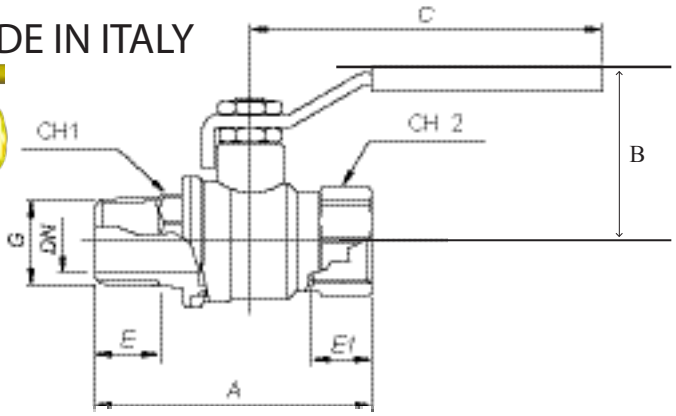
ISO 9002 Manufacturer

FEATURES

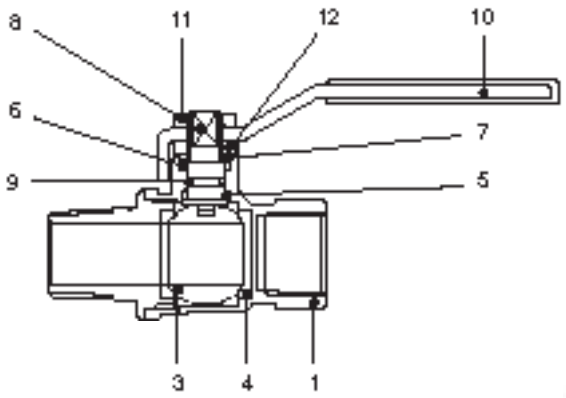
- Solid chrome plated brass ball
- Suitable for full range of liquids and gases.
- Minimal pressure drop due to large full size ports.
- Bottom loaded, pressure retaining stem.
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150psi (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation.
- Generic Handles
- Flow both directions.
- Low operating torque.
- Adjustable stem packing gland.
- Maximum operating temperature: 248°F (120°C) at 600 p.s.i
- Minimum operating temperature: -20°F (-40°C)
- KV: Pressure drop m^3/h.
- Each valve individually tested.
- Forged Brass - for more strength.
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem.
- Deeper threads - for better connections.

MADE IN ITALY

MIP x FIP



PART#	SIZE	DN	A	B	C	E	E1	CH1	CH2	WEIGHT	BOX/CASE	LIST
948101	1/4"	.39	2.18	1.53	3.28	.39	.43	.55	.75	0.35	24/96	---
948102	3/8"	.39	2.20	1.53	3.28	.43	.43	.71	.86	0.35	24/96	---
948103	1/2"	.57	2.54	1.57	3.28	.62	.46	.87	.98	0.42	14/56	---
948104	3/4"	.75	2.75	1.77	3.80	.55	.49	1.12	1.22	0.68	12/48	---
948105	1"	.94	3.23	2.03	3.80	.69	.59	1.34	1.50	0.95	6 /24	---
948106	1-1/4"	1.24	3.86	2.32	4.63	.81	.79	1.69	1.90	1.66	4/16	---
948107	1-1/2"	1.49	4.20	2.98	6.28	.85	.64	2.15	2.13	2.83	2/8	---
948108	2"	1.96	4.90	3.27	6.38	.90	.75	2.40	2.64	4.22	1/4	---



POS	Components	Materials	N
1	Body	CW617N Forged Brass	1
2	End Connection	CW617N Forged Brass	1
3	Ball	CW617N CP Brass	1
4	Ball Stems	P.T.F.E.	2
5	Stem Antif. Seat	P.T.F.E.	1
6	Stem Seat	P.T.F.E.	1
7	Brass Ring	CW617N Brass	1
8	Stem	CW617N Brass	1
9	O-Ring	NBR 80	1
10	Handle	UNI EN 10025 Steel	1
11	Nut	UN 5771 Steel	1
12	Nut	CW617N Brass	1

- Not Lead Free

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TEE HANDLE BALL VALVE – MALE X FEMALE

UL842, UL258

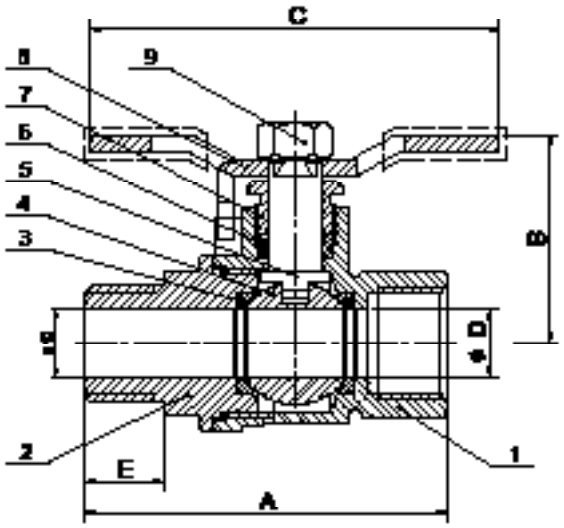
Features

- Thread conform ANSI B1.20.1
- Forged brass body
- Blow out proof stem design
- Packing nut, O-Ring and packing on the stem seal
- Chrome Plated Brass Ball
- Handle with vinyl grip

Performance rating

- 600 PSI (WOG) 150 PSI (WSP) Service
- Temperature range: -20° F to 300° F
- Made in China
- Not lead free

PART#	SIZE	DIMENSION INCHES						Box/Case	List Price
	NPT	A	B	C	D	E	Weight		
948170T	1/4"	2.016	1.27	2.67	0.315	0.457	0.26	70/140	---
948171T	3/8"	2.094	1.213	2.67	0.394	0.457	0.33	70/140	---
948172T	1/2"	2.343	1.61	3.12	0.583	0.520	0.49	50/100	---
948173T	3/4"	2.618	1.26	3.12	0.748	0.563	0.66	30/60	---
948174T	1"	3.000	1.921	3.701	0.945	0.630	1.06	20/40	---
948176T	1-1/2"	3.965	2.717	4.331	1.575	0.717	2.46	9/18	----



Item	Part	Materials
1	Body	Brass
2	End Cap	Brass
3	Ball Seat	PTFE
4	Ball	C/P Brass
5	Stem	Brass
6	Stem Packing	PTFE
7	Packing Nut	Brass
8	T-Handle	Nickel plating steel
9	Stem Nut	Brass plating steel

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LOCKING HANDLE BALL VALVES - FEMALE X MALE

UL842, UL258

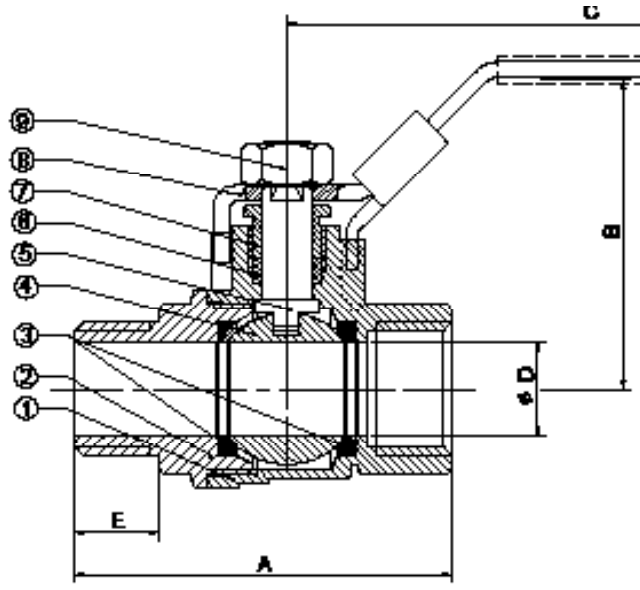
Features

- Thread conform ANSI B1.20.1
- Forged brass body
- Blow out proof stem design
- Packing nut, O-Ring and packing on the stem seal
- Chrome Plated Brass ball
- Handle with vinyl grip

Performance rating

- 600 PSI (WOG) 150 PSI (WSP) Service
- Temperature range: -20° F to 300° F
- Made in China
- Not lead free

PART#	SIZE	DIMENSION INCHES						Box/Case	List Price
	NPT	A	B	C	D	E	Weight		
948170L	1/4"	2.016	1.732	3.543	0.315	0.457	0.32	70/140	---
948171L	3/8"	2.094	1.732	3.543	0.394	0.457	0.37	70/140	---
948172L	1/2"	2.343	1.941	3.543	0.583	0.520	0.50	50/100	---
948173L	3/4"	2.618	2.106	3.78	0.748	0.563	0.77	30/60	---
948174L	1"	3.000	2.579	4.528	0.945	0.630	1.21	20/40	---
948175L	1-1/4"	3.563	2.961	4.528	1.260	0.709	1.74	12/24	---
948176L	1-1/2"	3.965	3.366	5.36	1.575	0.717	2.58	9/18	---
948177L	2"	4.496	3.701	5.36	1.969	0.748	3.73	6/12	---



Item	Part	Materials
1	Body	Brass
2	End Cap	Brass
3	Ball Seat	PTFE
4	Ball	C/P Brass
5	Stem	Brass
6	Stem Packing	PTFE
7	Packing Nut	Brass
8	Lever Handle	Nickel plating steel
9	Stem Nut	Brass plating steel

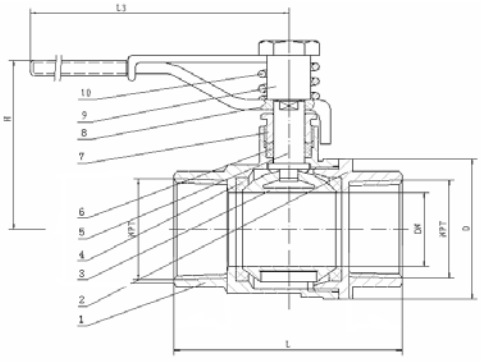
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPRING HANDLE/ RIGHT ANGLE

VALVES

BRASS SPRING HANDLE BALL VALVE

Working pressure:600 PSI for brass
Temperature Range:-40°F to 365°F(-40°C to +185°C)
Material:Brass
Spring Lever Handle w/Vinyl Grip
Made in China
Not lead free

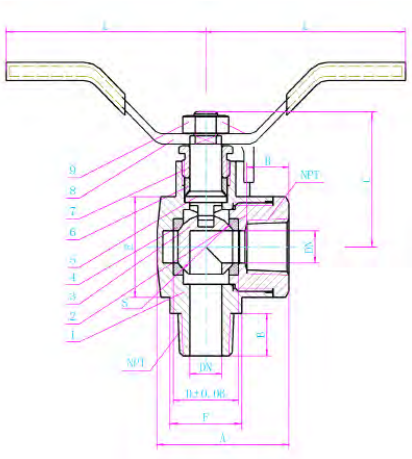


Part #	Part Name	Material
1	Body	Brass
2	Bonnet	Brass
3	Ball	Brass
4	Sealing Seat	PTFE
5	Stem	Stainless Steel
6	Packing Ring	PTFE
7	Gland	Brass
8	Handle	Stainless Steel
9	Bolt	Brass
10	Spring	Stainless Steel

PART#	SIZE	L	D	DN	H	L3	WTG	BOX/ CASE	LIST PRICE
947103	1/2"	2.19	1.24	0.59	1.83	4.24	0.54	10/80	---
947104	3/4"	2.38	1.5	0.75	2.19	4.24	0.72	5/40	---
947105	1"	3.23	1.91	0.98	2.49	4.71	1.32	5/30	---

RIGHT ANGLE BRASS BALL VALVE

Working pressure: 250PSI
Temperature Range -40° to 400°F(-40 °C to +205 °C)
With lever Handle Polytetrafluoroethylene seats 2-pc,full port Heavy Duty forged Body Steel Handle w/Vinyl GripMade in China
Not lead free



Part #	Part Name	Material
1	Body	Brass
2	Cap	Brass
3	Ball	Brass
4	Seat	PTFE
5	Stem	Brass
6	Stuffing	PTFE
7	Packing Nut	Brass
8	Handle	Steel
9	Nut	Brass

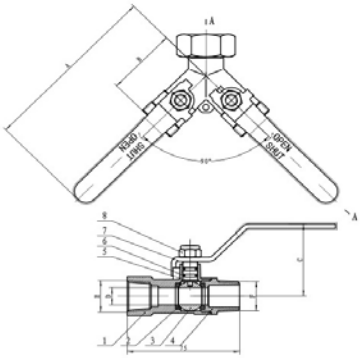
PART #	SIZE	A	B	C	D	S	DN	L	E	F	WTG	BOX/ CASE	LIST PRICE
947111	1/4	1.59	0.41	1.40	0.64	0.63	0.32	2.60	0.98	0.65	0.34	12/120	---
947112	3/8	1.59	0.41	1.40	0.73	0.71	0.39	2.60	0.98	0.65	0.36	12/120	---
947113	1/2	1.73	0.55	1.40	0.79	0.87	0.55	2.60	1.08	0.83	0.47	10/80	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

3-WAY WYE BRASS BALL VALVE,VENTED AND UNVENTED

- Max.pressure:W.O.G.(water,oil,inert gas)
  Unvented Valve:600psi@70ºF
  Vented Valve:250psi@70ºF
  W.S.P.(working steam pressure)
  Unvented Valve:150psi@365ºF
  Vented Valve:Not related
- Vacuum Rating:29"Hg
- Temperature Range:-40º to 365ºF
- Ports:Full

Part#	Part Name	Material
1	Body	Brass Nickel Plated
2	Seat	PTFE
3	Ball	Brass,Cr.Plated
4	Cap	Brass Nickel Plated
5	Stem	Brass
6	O-Ring	Fluoroelastomer



Designed for the portable air compressor industry,these valves control the flow of water, oil, and inert gases in two direction and are great for mixing and diverting. They have a single female inlet and two male outlets with two ball valves.Valves are Brass Nickel Plated and have chrome-plated brass balls,brass blow-out proof stems ,PTFE seats and seals,and steel lever handles with vinyl grips.Vented valves has a drilled hole on the two valve balls and body that vents compressed air in the line when valve is closed. Connections:1"NPT female inlet and 3/4"NPT male outlet. ▪ Made in China ▪ Not lead free

NON-VENTED

NOW WITH STAINLESS STEEL HANDLES

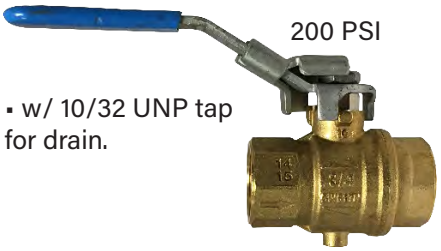
VENTED

EXHAUST VALVES

AUTOMATIC DRAIN & LATCH LOCK HANDLE

Full port hot forged brass ball valve, blow-out proof stem, downstream automatic vent with lockable handle in compliance with OSHA requirements.

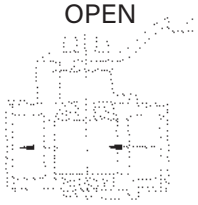
- Maximum working pressure: 200 PSI (CWP).
- Temperature rating: +15°F through +210°F.
- Made in Italy
- Not lead free



200 PSI

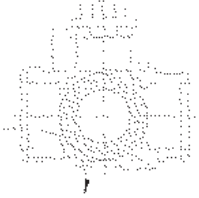
▪ w/ 10/32 UNP tap for drain.

OPEN



Valve - open position. Drain vent shut off.

CLOSED



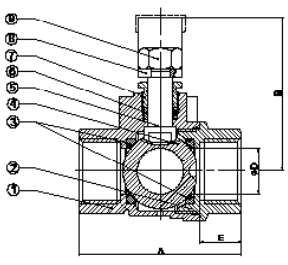
PART#	SIZE	LIST PRICE
948131	1/4"	---
948132	3/8"	---
948133	1/2"	---
948134	3/4"	---

Valve - closed and draining occurs. Upstream seat prevents air flow. Downstream system is vented to atmosphere.

SAFETY EXHAUST BALL VALVE

- Threaded - Two Piece Body - Full Port ▪ Vented
- Blow-out Proof Stem - PTFE Seats ▪ 400 PSI WOG
- To Exhaust and Downstream Air in the Closed Position w/ locking lever handle.
- Made in China ▪ Not lead free ▪ 150 SWP

PART #	SIZE	A	B	D	E	LIST PRICE
948141	1/4"	1.756	1.88	0.394	0.457	---
948142	3/8"	1.756	1.88	0.394	0.457	---
948143	1/2"	2.047	2.13	0.583	0.520	---
948144	3/4"	2.362	2.28	0.748	0.563	---



MATERIAL LIST

Item	Part	Material
1	Body	Brass
2	End Cap	Brass
3	Ball Seal	PTFE
4	Ball	Brass
5	Stem	Brass
6	Stem Packing	PTFE
7	Packing Nut	Brass
8	Lever Handle	Nickel plating steel
9	Stem Nut	Nickel plating steel

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GAS BALL VALVES

Manual Valve
LISTED
Threaded NPT
UL 842, UL 258, UL 125

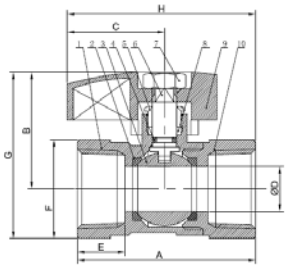
CSA AGA 3.88 5 PSIG

- Material: C37700
- Forged brass,Regular port,Thread*Flare Thread
- Thread ends in ANSI B1.20.1
- Working temperature:0-65°(32-149°)
- Pressure :1/2PSI;5PSI;

ISO 9002 MANUFACTURER

FEATURES

- ASME B16.44/CR91; ANSI Z21.15/CSA9.1
- UL 125 For LP-Gas 125psig
- Made in China



NO.	ITEM	TOTAL	MATERIAL
10	BALL VALVE CAP	1	BRASS
9	HANDLE	1	AL-alloy
8	PACKING	1	PTFE
7	HANDLE NUT	1	PLATED STEEL
6	STEM	1	BRASS
5	PACKING NUT	1	BRASS
4	O-RING	1	NBR
3	BALL	1	BRASS
2	SEALING WASHER	2	PTFE
1	BALL VALVE BODY	1	BRASS

GAS BALL VALVE (2-PIECE)
FEMALE X FEMALE

PART#	SIZE	WTG	BOX/CASE	LIST PRICE
943311	3/8"	0.35	10/100	---
943312	1/2"	0.44	10/100	---
943313	3/4"	0.62	10/100	---
943314	1"			

SIZE	ØD	A	B	C	E	F	G	H
3/8″	0. 394	1. 752	1. 437	1. 28	0. 472	0. 945	1. 909	2. 146
1/2″	0. 394	2. 204	1. 437	1. 28	0. 606	1. 043	1. 961	2. 461
3/4″	0. 591	2. 362	1. 535	1. 28	0. 626	1. 299	2. 815	2. 476

FLARE X FLARE

PART#	SIZE	LIST PRICE
943342	3/8	---
943343	1/2	---
943345	5/8	---
943344	15/16	---

FLARE X MIP

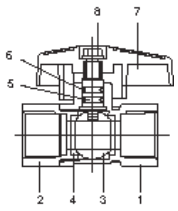
PART#	SIZE	LIST PRICE
943347	3/8 x 1/2	---
943348	1/2 x 1/2	---

FLARE X FIP

PART#	SIZE	LIST PRICE
943331	3/8 x 1/2	---
943332	1/2 x 1/2	---
943351	5/8 x 3/4	---

- For use with natural, manufactured, mixed liquified. petroleum and LP gas-air mixtures.
- Deeper thread connections. Smooth quarter-turn.
- Manufactured to ANSI Z21.15, C.G.A. 9.1-M81, 9.2-M88, 1/2 psig. 372 also to A.G.A.3-8, C.G.A. CR91-002, 2 psig.
- Solid chrome plated brass ball
- Bottom entry
- Blow out proof design.
- Double Fluoroelastomer o-rings stem seals
- Polytetrafluoroethylene seats for durability.
- Forged construction for greater strength.
- Larger ports for increased flow capacity.
- Larger ports for increased flow capacity.
- Red Reversible handle.
- May be used with water 400 WOG.

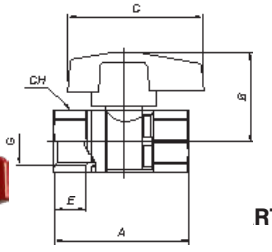
MADE IN ITALY



	Components	Materials
1	Body	Forged Brass
2	End Connection	Forged Brass
3	Ball	Forged Brass
4	Ball Seats	P.T.F.E.
5	Stem	Brass
6	O-Ring	NBR
7	Butterfly	Steel
8	Screw	UNI 5771 Steel

CSA AGA 3.88 5 PSIG

Manual Valve
LISTED
Threaded NPT
UL 842, UL 258, UL 125



GAS BALL VALVES
FEMALE X FEMALE

RT#	SIZE G	DIMENSION INCHES DN	A	B	C	E	CH	PN in psi	WTG	Box/ Case	
943212	1/2"	.47	2.26	1.45	2.28	.55	.98	600	0.33	20/80	---
943213	3/4"	.59	2.48	1.57	2.28	.57	1.22	600	0.45	14/56	---

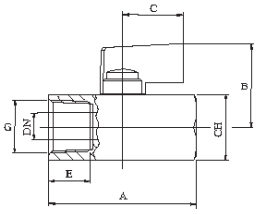
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ITALIAN CHROME PLATED BRASS MINI BALL VALVE

ISO 9002 Manufacturer

FEATURES

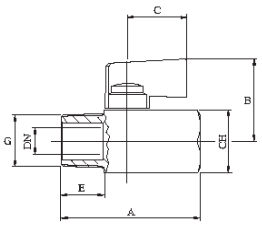
- Solid chrome plated brass ball
- Max working pressure 235 psi will handle 300psi@75° F
- Longer body style for longer, deeper thread connections
- One piece drawn sand blasted chrome plated body.
- Each valve is seal tested for maximum safety.
- Double seal system allows valve to be operated in both directions making installation easier.
- Blowout-proof brass stem.
- NPT taper ANSI B1.20.1 threads.
- 32°F to +176°F temperature.
- 1/4 Turn Aluminium handle with mechanical stop.
- NSF Approved valves available upon request!
- Not lead free



Made in Italy

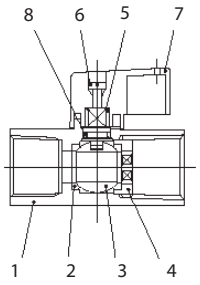
Female x Female

PART#	SIZE		DIMENSION INCHES							LIST
	G	DN	A	B	C	E	CH	WTG	BOX/ CASE	
46922I	1/4"	0.31	1.81	1.17	0.9	0.51	0.83	0.24	50/200	---
46923I	3/8"	0.31	1.85	1.17	0.9	0.51	0.83	0.22	50/200	---
46924I	1/2"	0.39	2.18	1.26	0.9	0.61	0.98	0.32	30/120	---

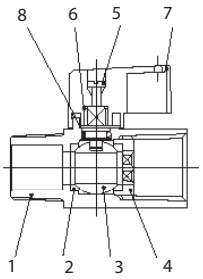


Male x Female

PART#	SIZE		DIMENSION INCHES							LIST
	G	DN	A	B	C	E	CH	WTG	BOX/ CASE	
46903I	1/4"	0.31	1.75	1.17	0.9	.40	0.83	0.20	50/200	---
46904I	3/8"	0.31	1.81	1.17	0.9	.41	0.83	0.20	50/200	---
46905I	1/2"	0.39	2.14	1.26	0.9	.52	0.98	0.30	40/160	---



POS	Components	Materials	N
1	Body	CW517N Forged Brass	1
2	Ball Seats	P.T.F.E	2
3	Ball	CW517N CP Brass	1
4	Ring Unit	CW614N Brass	1
5	Stem	CW614N Brass	1
6	Screw	UNI 5771 Steel	1
7	Handle	Aluminum	1
8	O-Ring	NBR 80	1



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MINI BALL VALVES
VALVES

MINI BALL VALVES

- Chrome plated forged brass body
- Chrome plated brass ball
- NPT taper ANSI B1.20.1 threads*
- 450 PSI working pressure
- At 212°F - 355 PSI
- At 356°F - 142 PSI
- 1/4 Turn Alumzinc handle
- Not lead free
- Made in China

FEMALE X FEMALE - FLAG HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	F	G			
46934	1/8	1.57	0.24	0.93	1.46	0.21	20/300	---
46935	1/4	1.57	0.31	0.93	1.46	0.20	20/300	---
46936	3/8	1.57	0.28	0.93	1.46	0.22	20/300	---
46937	1/2	1.77	0.35	0.93	1.56	0.24	20/200	---

MINI BALL VALVES W/FLUOROELASTOMER SEALS

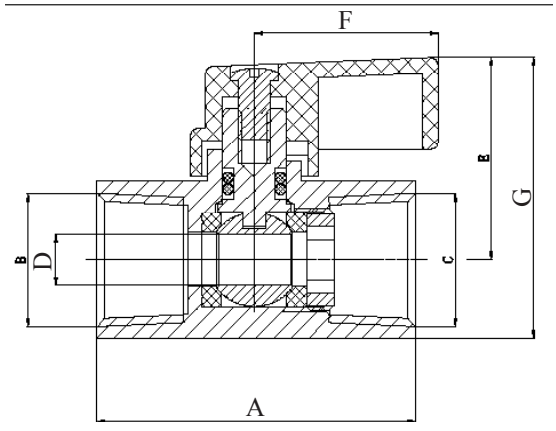
FEMALE X FEMALE - TEE HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	HAN-DLE	G			
46934LT	1/8	1.60	0.24	1.34	1.43	0.21	20/300	---
46935LT	1/4	1.57	0.31	1.34	1.43	0.20	20/300	---
46936LT	3/8	1.60	0.28	1.34	1.43	0.22	20/300	---

FEMALE X FEMALE - SCREWDRIVER

PART #	SIZE	DIMENSIONS (IN)		WT LBS	BOX/CASE	
		A	D(FLOW)			
46934LS	1/8	1.57	0.24	0.21	20/300	---
46935LS	1/4	1.57	0.31	0.20	20/300	---
46936LS	3/8	1.57	0.28	0.22	20/300	---
46937LS	1/2	1.77	0.35	0.24	20/200	---

- Not lead free



Pos	Components	Materials	N
1	Body	CP Forged Brass	1
2	Ball Seats	P.T.F.E.	2
3	Ball	CP Brass	1
4	Ring Unit	Brass	1
5	Stern	Brass	1
6	O-Ring - flag handle	NBR 80	1
6	O-Ring - all oth-ers	Fluoroelas-tomer	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MINI BALL VALVES

- Chrome plated forged brass body
- Chrome plated brass ball
- NPT taper ANSI B1.20.1 threads*
- 450 PSI working pressure
- At 212°F - 355 PSI
- At 356°F - 142 PSI
- 1/4 Turn Alumzinc handle
- Not lead free
- Made in China

MALE X FEMALE - FLAG HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	F	G			
46930	1/8	1.57	0.24	0.93	1.46	0.17	20/300	---
46931	1/4	1.57	0.31	0.93	1.46	0.15	20/300	---
46932	3/8	1.57	0.28	0.93	1.46	0.21	20/300	---
46933	1/2	1.77	0.35	0.93	1.56	0.24	20/200	---

MINI BALL VALVES W/FLUOROELASTOMER SEALS

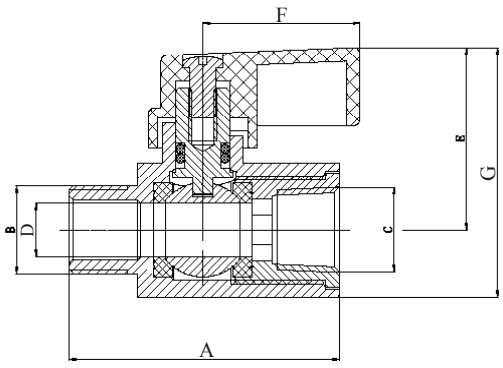
MALE X FEMALE - TEE HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	HANDLE	G			
46930T	1/8	1.57	0.24	1.34	1.46	0.17	20/300	---
46931T	1/4	1.57	0.31	1.34	1.46	0.15	20/300	---
46932T	3/8	1.57	0.28	1.34	1.40	0.21	20/300	---
46933T	1/2	1.77	0.35	1.34	1.56	0.24	20/200	---

MALE X FEMALE - SCREWDRIVER

PART #	SIZE	DIMENSIONS (IN)		WT LBS	BOX/ CASE	
		A	D(FLOW)			
46930S	1/8	1.57	0.24	0.17	20/300	---
46931S	1/4	1.57	0.31	0.15	20/300	---
46932S	3/8	1.57	0.28	0.21	20/300	---
46933S	1/2	1.77	0.35	0.24	20/200	---

- Not lead free



Pos	Components	Materials	N
1	Body	CP Forged Brass	1
2	Ball Seats	P.T.F.E.	2
3	Ball	CP Brass	1
4	Ring Unit	Brass	1
5	Stern	Brass	1
6	O-Ring - flag handle	NBR 80	1
6	O-Ring - all others	Viton	1
7	Handle	Alumzinc	1
8	Screw	Steel	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FORGED BRASS MINI BALL VALVES
VALVES

FORGED BRASS MINI-BALL VALVES

- 180⁰ operational handle, blow out proof stem. Stem with double "O" Rings
- 200 WOG
- Temp rating -20°F - 250°F
- Generic Handles
- Not lead free

NO	Part Name	Material	QTY
1	Nut	Steel	1
2	Handle	Steel	1
3	Cover	PVC	1
4	O-Ring	NBR	2
5	Stem	Brass	1
6	Body	Brass	1
7	Seat	Polyte	2
8	Ball Disc	Brass	1
9	End Plug	Brass	1

*Polyte Abbreviation for Polytetrafluoroethylene

FEMALE X FEMALE

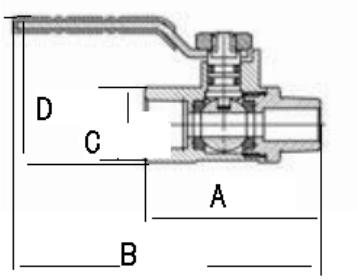
PART #	SIZE	A	B	C	D	LIST PRICE
944113	1/8	1.53	2.80	0.73	1.42	---
944116	1/4	1.53	2.80	0.73	1.42	---
944117	3/8	1.73	2.90	0.87	1.50	---
944140	1/2	2.20	3.08	0.98	1.45	---

FEMALE X MALE

PART #	SIZE	A	B	C	D	LIST PRICE
944106	1/8	1.69	3.02	0.73	1.46	---
944100	1/4X1/8	1.28	2.90	0.66	1.32	---
944101	1/4	1.70	3.00	0.73	1.46	---
944102	3/8X1/4	1.78	2.50	0.89	1.50	---

MALE X MALE

PART #	SIZE	A	B	C	D	LIST PRICE
944107	1/8	1.70	2.94	0.65	1.42	---
944109	1/4	1.25	2.66	0.65	1.42	---
944110	3/8	1.90	2.98	0.73	1.42	---



HOSE BARB X MALE

PART #	SIZE	A	B	C	D	LIST PRICE
944132	1/4X1/8	2.05	2.91	0.73	1.51	---
944138	1/4X1/4	2.08	2.98	0.73	1.51	---
944128	3/8X1/4	2.08	3.04	0.73	1.51	---
944130	3/8X3/8	2.12	3.06	0.73	1.51	---

HOSE BARB X FEMALE

PART #	SIZE	A	B	C	D	LIST PRICE
944136	1/4X1/4	1.97	2.87	0.73	1.55	---

HOSE BARB X HOSE BARB

PART #	SIZE	A	B	C	D	LIST PRICE
944142	1/4X1/4	2.47	3.19	0.73	1.55	---

LEAD FREE

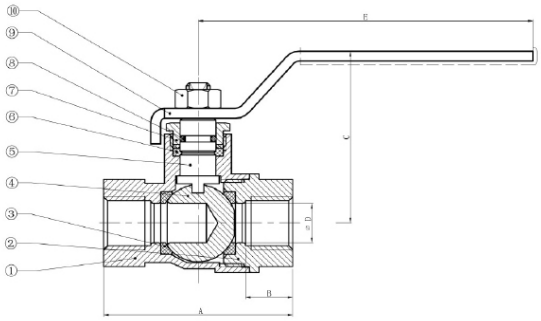
PART #	SIZE	A	B	C	D	LIST PRICE
944142LF	1/4	2.49	3.19	0.73	1.55	---

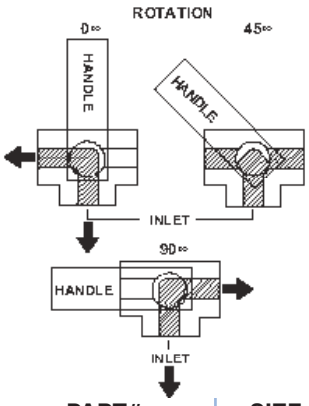
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SIDE OUTLET 3-WAY BALL VALVE

• BRASS • 600WOG • FULL PORT

- Forged Brass
- 600 WOG
- Temp Rating 0-230°F
- 150 SWP
- Side outlet





- Full Port
- Blow-out proof stem
- double o-ring stem packing
- PTFE Seal
- Made in China
- Not lead free

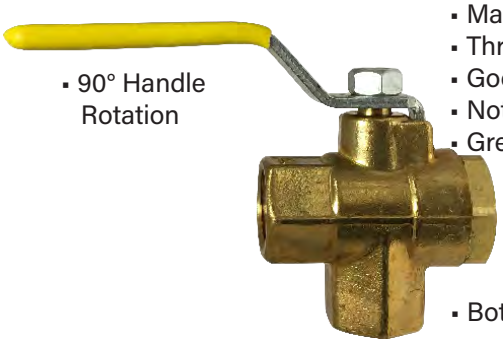
Nomenclature & Materials

NO	Part Name	Material	Qty
1	Body	Brass	1
2	End Cap	Brass	1
3	Ball Seat	PTFE	1
4	Ball	Brass	1
5	Stem	Brass	2
6	Seal	PTFE	1
7	Impacted Nut	Brass	1
8	O-Ring	NBR	2
9	Lever Handle	Steel	1
10	Stem Nut	Steel	1

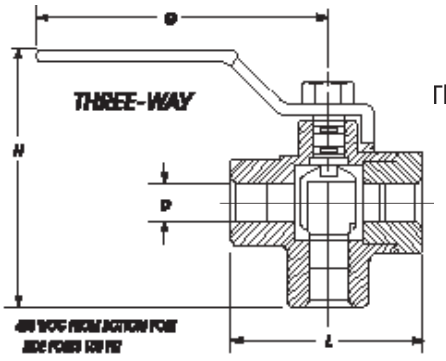
PART#	SIZE	I	H	D	L	A	WTG	BOX/ CASE	LIST PRICE
940464	1/4"	1.89	1.73	0.39	3.58	0.47	0.51	50/100	---
940465	3/8"	1.89	1.73	0.39	3.35	0.47	0.57	50/100	---
940461	1/2"	2.11	1.80	0.50	3.58	0.51	0.65	30/60	---
940462	3/4"	2.56	2.16	0.74	4.31	0.55	0.99	20/40	---

BOTTOM OUTLET 3 WAY BALL VALVE

- Forged Brass
  Bottom Port is inlet 400 psi
  Side Ports are inlet 100 psi
- 90° Handle Rotation



- Polytetrafluoroethylene ball seats
- Double O-Ring Stem Seals - primary seal is Fluoroelastomer secondary seal is Aflas
- Blow out proof stem
- Made in USA
- Threaded ports
- Good for propane
- Not lead free
- Great for diesel fuel
- Bottom outlet



Threaded

PART#	SIZE	D	G	H	L	CV	WTG	LIST PRICE
940121	1/4"	.44	3.50	3.12	2.25	5.2	0.76	---
940122	3/8"	.50	3.50	3.12	2.25	5.5	0.69	---
940123	1/2"	.50	3.50	3.12	2.25	5.5	1.00	---

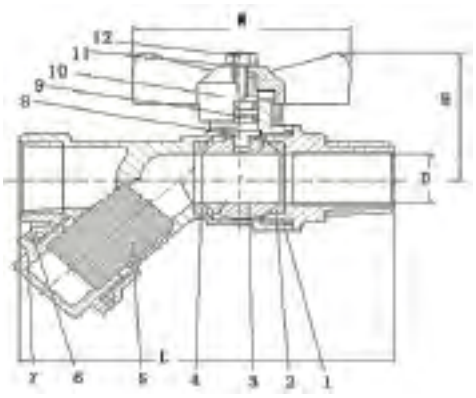
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MISCELLANEOUS VALVES
VALVES

BRASS BALL VALVE WITH STRAINER

All-in-One design for economical ,compact and convenient .With stamped stainless Steel Screen . 600PSI WOG Forged brass body,Crome plated ball ,PTFE ball seats and cap seal , and rubber o-ring stem seals. Not lead free

Part #	Part Name	Material
1	Body	Brass
2	Caps	Brass
3	Ball	Brass,Cr.Plated
4	Seat	PTFE
5	Filter	SS
6	Gasket	PTFE
7	Caps	Brass
8	Stem	Brass
9	O-Ring	Fluoroelastomer
10	Handle	Zinc
11	Spring Washer	S.S



PART #	SIZE	L	D	W	H	WTG	BOX/CASE	LIST PRICE
947133	1/2"x1/2"(MxF)	3.77"	0.59"	2.00"	1.50"	0.60	8/64	---
947134	3/4"x3/4"(MxF)	4.32"	0.75"	2.40"	1.85"	1.00	8/64	---

RADIATOR AIR VALVE
COIN SLOT OR LOSSE KEY

PART #	SIZE	LIST PRICE
943284	1/8" MIP	---
943287	Key only	---

ANGLE SILLCOCKS
3/4" HOSE THREAD OUTLET

- Notched flange for convenient installation.
- Heavy brass construction.
- Cast Iron handle.
- Not lead free

FEMALE IPS

PART #	SIZE	BOX	LIST PRICE
942142	1/2	12	---

HOSE BIBBS
3/4" HOSE THREAD OUTLET

IPS

PART #	SIZE	WTG	BOX/ CASE	LIST PRICE
942170	1/2 (1/2"C)	0.33	10/100	---
942171	3/4	0.35	10/100	---

BENT NOSE GARDEN VALVES

- Heavy brass construction
- Cast iron handle
- Stuffing box
- Neoprene seal disc

PART #	SIZE	BOX	CASE	LIST
942100	1/2"	12	72	---
942101	3/4"	12	72	---
942102	1"	12	72	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

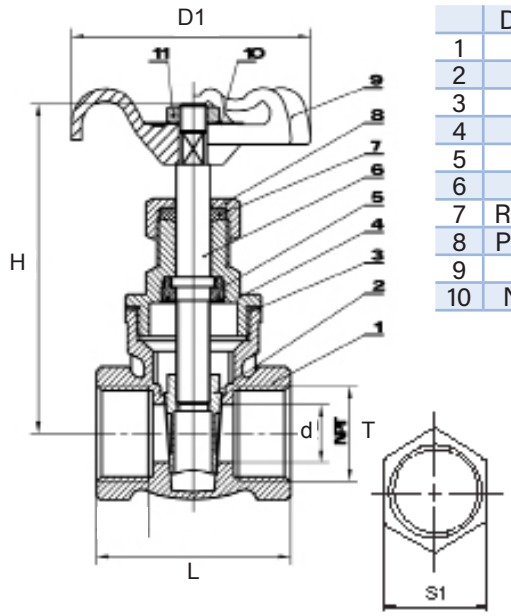
BRASS GATE VALVE

• BRASS • 200WOG • FULL PORT

- 200 WOG (cold water, oil, gas).
- Full-port design for a better water flow.
- Screw-in Bonnet - Non-Rising Stem - Solid Wedge
- NPT Threaded ends to ANSI B1.20.1
- Cast iron handle.
- Each valve individually air tested under water.
- Good for diesel fuel.
- Made in Indonesia
- Not lead free
- Temp. 32°-320°F

BRASS GATE VALVES IPS

PART#	SIZE	L	H	D1	D	T	S1	WEIGHT	BOX/CASE	LIST PRICE
940130	1/4	1.64	2.91	2.09	0.44	1/4-18 NPT	.85	0.60	10/120	---
940131	3/8	1.71	2.91	2.09	0.48	3/8-18 NPT	.85	0.59	10/120	---
940132	1/2	1.71	2.91	2.09	0.50	1/2-14 NPT	1.03	0.75	10/120	---
940133	3/4	1.71	3.06	2.13	0.74	3/4-14 NPT	1.26	0.83	10/80	---
940134	1	2.13	3.60	2.48	0.97	1-11.5 NPT	1.51	1.24	5/60	---
940135	1-1/4	2.24	4.50	2.66	1.22	1-1/4-11.5 NPT	1.89	1.69	5/40	---
940136	1-1/2	2.44	5.08	3.15	1.45	1-1/2-11.5 NPT	2.17	2.17	5/30	---
940137	2	2.70	5.94	3.52	1.85	2-11.5 NPT	2.60	3.30	2/12	---
940138	2-1/2	3.70	7.87	3.98	2.48	2-1/2-8 NPT	3.27	6.26	1/10	---
940139	3	4.02	8.82	4.37	2.80	3-8 NPT	3.86	8.26	1/4	---



	Description	Material
1	Body	C85700
2	Disk	C85700
3	Seat	PTFE
4	Cap	C85700
5	Packing	C85700
6	Stem	C85700
7	Rubber Seat	NBR
8	Packing Nut	C85700
9	Handle	Cast Iron
10	Nameplate	AL

Crown handle
1/2-1/4

X handle
1/2-1/4

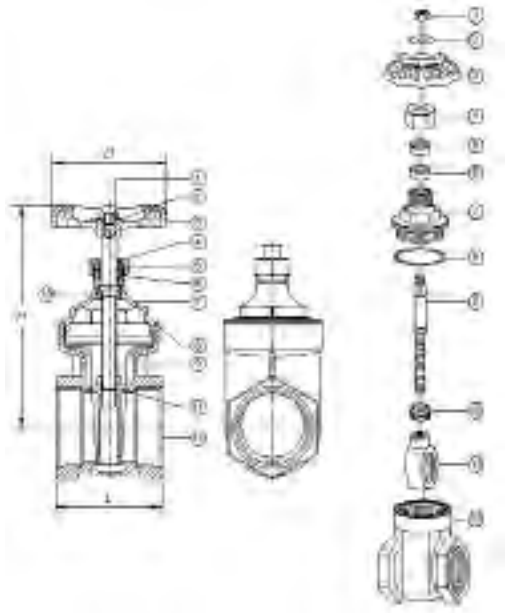
Add "*C*" to part# for Crown handle, "*X*" for X handle.

Also Available SS Gate Valve

See Lead Free for lead free Gate Valves.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRONZE IPS GATE VALVE



BRONZE GATE VALVE

NUMBER	PART	MATERIALS	NOTE
1	NUT	HOT ROLLED (SAE 1010R)	
2	NAME PLATE	ALUMINUM	
3	HANDLE	CAST IRON (JIS Z22202)	
4	PACKING NUT	BRASS ROD (C37700)	
5	GLAND RING	BRASS ROD (C37700)	Size 1-1/4" ~ 4"
6	PACKING	GRAPHITE (LK 33 NAFG)	
7	BONNET	CAST BRONZE (C83600)	
8	PACKING	FIBRE	Size 2" ~ 4"
9	STEM	BRASS ROD (C37700)	Size 1/4" ~ 2"
		CAST BRONZE (C83600)	Size 2-1/2" ~ 4"
10	LOCKNUT	BRASS ROD (C37700)	
11	DISC	CAST BRONZE (C83600)	
12	BODY	CAST BRONZE (C83600)	

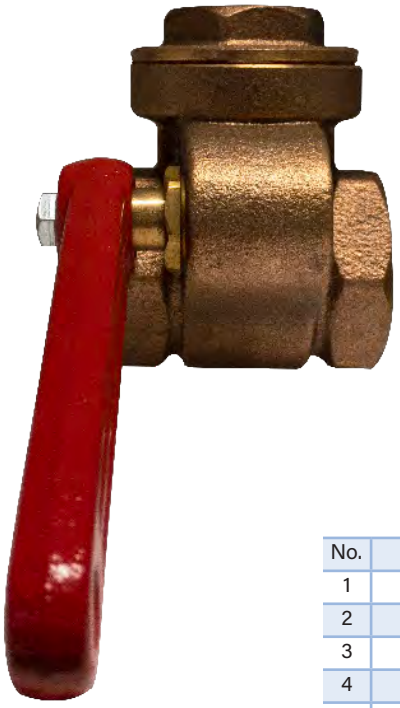
PART#	SIZE	DIMENSION (MM)		
		D	H	L
	1/4" FIP	53	74	43.5
	3/8" FIP	53	74	43.5
939132	1/2" FIP	53	74	43.5
939133	3/4" FIP	54	84	46
939134	1" FIP	63	99	54
939135	1-1/4" FIP	69	117	57
939136	1-1/2" FIP	80	129	62
939137	2" FIP	89.5	152	68.5
939138	2-1/2" FIP	101	200	94
939139	3" FIP	111	224	102
939140	4" FIP	127	251	115

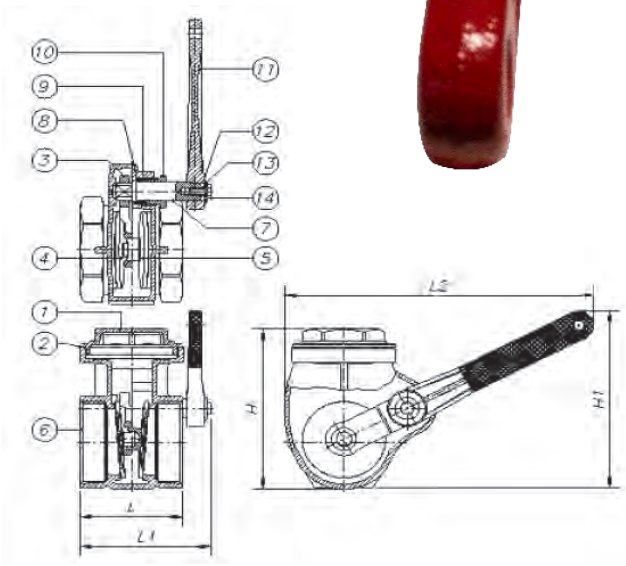
QUICK OPENING GATE VALVE

VALVES

GATE VALVE QUICK OPENING

Features: Bronze Material, Threaded Ends, 200 WOG





MATERIAL SPECIFICATION

No.	Part	Bronze
1	BONNET	BRASS (C85700)
2	PACKING	FIBRE
3	ARM	BRASS (C85700)
4	DISC MALE	BRASS (C85700)
5	DISC FEMALE	BRASS (C85700)
6	BODY	BRASS (C85700)
7	STEM	BRASS (C37700)
8	WASHER	BRASS (C37700)
9	PACKING	Polytetrafluoroethylene POLYFLON(PTFE M-392)
10	PACKING NUT	BRASS (C37700)
11	HANDLE	CAST IRON (JIS ZZ2202) RUBBER COATING BRASS (C85700)
12	NAME PLATE	ALUMINIUM (A1100)
13	WASHER	HOT ROLLED (SAE 1010R)
14	HANDLE BOLT	HOT ROLLED (SAE 1010R)

PART #	SIZE	L	L1	L2	H	H1	BOX	CASE	LIST PRICE
941133	1/2"	45.6	60.6	119	56.8	52.8	10	50	---
941134	3/4"	51	62	126.3	68	87.5	10	50	---
941135	1"	58.3	72.3	155	78.7	90.2	10	30	---
941136	1-1/4"	30.1	78	180.2	89.5	104	5	25	---
941137	1-1/2"	66.7	85.3	196.6	99.2	131	6	18	---
941138	2"	76.4	90.3	250.6	119.3	143.7	2	10	---
941140	3"	101	129.2	305.6	172.2	191.3	2	6	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

Y-PATTERN STRAINER

VALVES

CLASS 150 BRASS Y-PATTERN STRAINER

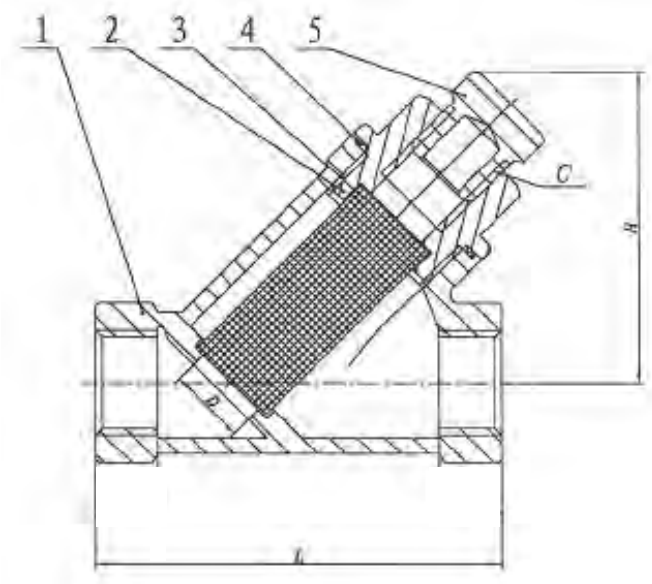
- Forged Brass body, size 1/4"-3".
- Pressure rating: 250 WOG (water, oil, gas)/PN25
  125 WSP (Saturated Stem)
- NPT Threaded ends to ANSI B1.20.1
- Protects regulators, pumps, meters and other controls from damage due to sediment scale, metal chips or other foreign materials.
- Screwed cap is threaded & gasketed.
- Tapped drain plug opening in cap.
- 304 stainless steel screen #20 mesh.
- Self cleaning.
- Self cleaning can be accomplished by opening the valve or plug connected to the blow-off outlet.
- Made in Indonesia
- NOT LEAD FREE
- w/20 Mesh Screen
- Temp 180°F

PART#	SIZE	L	H	C (PLUG)	WEIGHT	BOX/CASE	LIST PRICE
940521	1/4"	2.57	1.95	NPT 3/8	.53	10/100	---
940522	3/8"	3.23	2.44	NPT 3/8	.71	12/48	---
940523	1/2"	3.23	2.44	NPT 3/8	.66	12/48	---
940524	3/4"	3.94	2.78	NPT 3/8	1.10	8/32	---
940525	1"	4.53	3.19	NPT 1/2	1.71	8/32	---
940526	1-1/4"	5.33	3.66	NPT 1/2	2.49	6/24	---
940527	1-1/2"	6.20	3.82	NPT 1/2	3.24	2/16	---
940528	2"	7.44	4.65	NPT 1/2	5.39	2/8	---
940529	2-1/2"	9.50	5.39	NPT 3/4	9.56	1/6	---
940530	3"	9.4	5.67	NPT 3/4	13.49	1/4	---

Add 'S' to part # for replacement screens

See Lead Free for 1/2" Lead Free

See Lead Free for SS Y Strainer

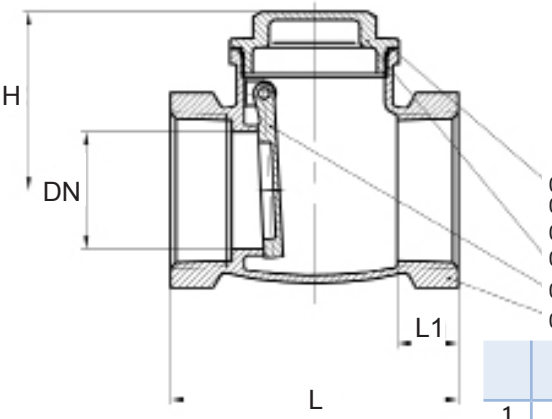


NO	Name	Material
1	BODY	C85700
2	BONNET	C85700
3	STRAINER	304 S.S.
4	SPRING SEAL	PTFE

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS SWING CHECK VALVES

- Working pressure non-shock: 200 psi W.O.G. (cold water, oil, gas) 125 psi WSP (saturated steam)
- Swing type disc.
- Screwed Cap.
- Hard Seat.
- 90⁰ Straight Pattern.
- Used to prevent reverse flow in commercial and industrial applications.
- Threaded ends to ANSI B1.20.1
- Integral seat.
- Temp range -5° - 150F°
- NOT LEAD FREE
- Cracking pressure 3-5 psi
- Made in Indonesia



	Descrip-tion	Material
1	Body	C85700
2	Disc	C85700
3	Cap	C85700

CAST BRASS SWING CHECK VALVES IPS SCREWED ENDS

PART #	SIZE	L	H	L1	DN	WEIGHT	BOX/CASE	LIST PRICE
940352	1/2	2.09	1.42	0.531	0.512	.41	10/100	---
940353	3/4	2.36	1.56	0.579	0.728	.56	10/80	---
940354	1	2.62	1.77	0.748	0.925	.80	8/40	---
940355	1-1/4	3.19	2.07	0.748	1.201	1.36	5/40	---
940356	1-1/2	3.54	2.16	0.846	1.417	1.56	5/20	---
940357	2	4.21	2.74	0.886	1.772	2.61	2/16	---
940358	2-1/2	5.14	3.09	1.063	2.224	4.55	1/8	---
940359	3	5.77	3.80	1.102	2.579	6.53	1/6	---
940360	4	6.84	4.25	1.102	3.602	10.18	1/4	---

See Lead Free Brass Swing Check Valves

See SS Swing Check Valves

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS CHECK VALVES
VALVES

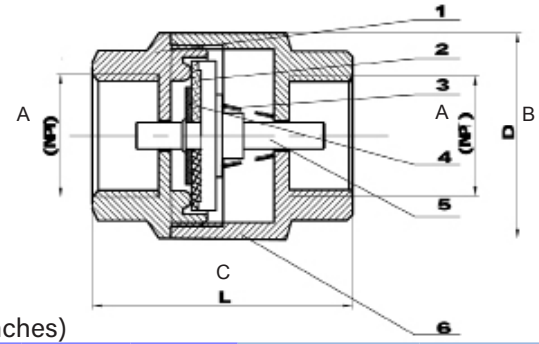
BRASS CHECK VALVES

S.S. SPRING LOADED BRONZE POPPET - For positive sealing & self-cleaning. Insures against leakage.

- Inline Lift Type - Resilient Discs - Spring Actuated - Threaded.
- Presure rating: 200 WOG (water, oil, gas) / 125 WSP (Saturated Steam)
- Spring in stainless steel AISI 304. ▪ Resilient washer hold/ disc in brass. ▪ Forged Brass Body for 1/2"-2"
- Corrosion resistant material. ▪ Can be used vertically or horizontally. ▪ Opens & Closes with flow of media.
- No cracking pressure. ▪ NOT LEAD FREE ▪ Made in Indonesia

1/4 Made in Taiwan

Temp Range
-10°C - 110°C
14°F - 248°F



Brass Check Valve (Inches)

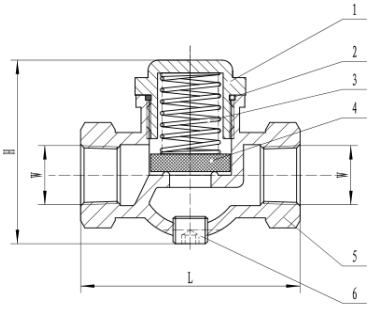
Part#	Size	Enters Pipe Size	A NPT	B	C	Weight	Box/Case	List Price
944428	1/4"	-	1/4"	1.00	2.29	.24	24/192	---
944429	3/8"	-	3/8"	1.00	2.07	.23	10/100	---
944430	1/2"	1-1/4"	1/2"	1.26	2.40	.42	10/100	---
944431	3/4"	1-1/4"	3/4"	1.45	2.74	.53	10/80	---
944432	1"	2"	1"	1.77	3.23	.85	6/48	---
944433	1-1/4"	2-1/2"	1-1/4"	2.13	3.62	1.18	4/40	---
944434	1-1/2"	3"	1-1/2"	2.29	4.04	1.40	5/30	---

▪ See Lead Free Brass Check Valves

▪ See SS Check Valves

IN LINE CHECK VALVES VERTICAL OR HORIZONTAL

• Working Pressure: 250 PSI • Temperature Range: -40° to 450°F(-40°to 230°C)
• Cracking Pressure: 3 PSI • Made in China • Not lead free
• Applications:Air Compressor Discharge Lines, may also used on water or oil lines
• Construction:Cast Bronze Body,Corrosion Resistant Stainless Steel Spring to Ensure Long Life,15% Glass Filled • Polytetrafluoroethylene Poppet,C360 Machined Brass Cap,1/8 NPT Unloader Port is Standard • Repairable



Part#	Part Name	Material
6	Plug	Brass
5	Body	Bronze
4	Gasket	PTPF
3	Spring	S.Steel
2	O-ring	HNBR
1	Cap	Brass

PART #	SIZE	W	L	H	WTG	BOX/CASE	LIST PRICE
947140	1/8"	1/8	1.75	1.34	0.28	20/100	---
947141	1/4"	1/4	1.75	1.37	0.29	20/100	---
947142	3/8"	3/8	2.50	2.18	0.62	10/50	---
947143	1/2"	1/2	2.50	2.13	0.54	10/50	---
947144	3/4"	3/4	2.88	2.64	1.17	8/40	---
947145	1"	1	3.61	3.30	1.98	2/20	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS IN-LINE CHECK VALVES

High Capacity, Size 1/4"-2" 400 WOG, 2 1/2"-4" 175 WOG

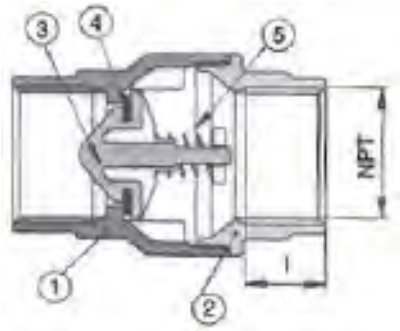
- Soft Seat for Bubble Tight Shutoff, Spring Loaded for Fast Seating Action.
- Compact design.
- Low Cracking Pressure 1/2 psi.
- Flow Profile Designed to Minimize Head Loss.
- Perfect Seating both at High and Low Pressure, Wide Temperature Range: +10° to 210°F.
- Polyethermide Disc to ensure the Best Resistance For Corrosion and Abrasion.
- Patented Disc Guide to Prevent Any Side Loading.
- Connection: FNPT x FNPT.
- Made in Italy ▪ Not lead free

NBR for water, oils and general purpose.
With Fluoroelastomer® Seal for fuels and hydrocarbons. Max working TEMPERATURE 325°F/125 psi steam

Add V to part# for Fluoroelastomer

BRASS IN-LINE CHECK

PART#	LIST PRICE	SIZE	I	PSI	LBS	CASE	FLUOR PART#	LIST PRICE
944401	---	1/4"	0.39	400	0.22	144		
944402	---	3/8"	0.40	400	0.18	144	944402V	---
944403	---	1/2"	0.60	400	0.32	144	944403V	---
944404	---	3/4"	0.65	400	0.49	90	944404V	---
944405	---	1"	0.66	400	0.71	90	944405V	---
944406	---	1-1/4"	0.68	400	1.13	30	944406V	---
944407	---	1-1/2"	0.68	400	1.53	30	944407V	---
944408	---	2"	0.69	400	2.28	12	944408V	---
944409	---	2-1/2"	0.93	175	4.83	4	944409V	---
944410	---	3"	1.01	175	6.70	4	944410V	---
944411	---	4"	1.09	175	12.43	2	944411V	---



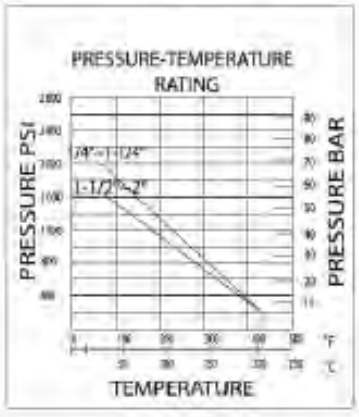
NO	Part	Material	PCS
1	BODY	BRASS	1
2	END CONNECTION	BRASS	1
3	DISC	POLYETHERIMIDE	1
4	SEAT	100002 NBR	1
		100003 Fluoroelastomer	1
5	SPRING	STAINLESS STEEL	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS FULL PORT VALVES
VALVES

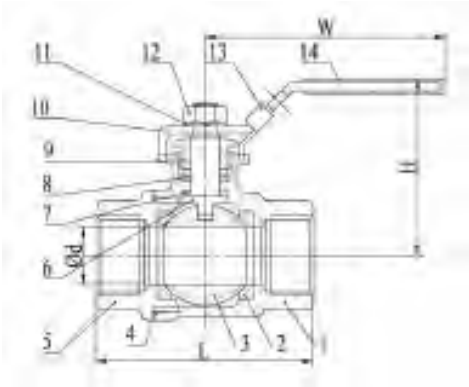
316 SS 2-PC BALL VALVE, FULL PORT, THREADED END, 2000 PSI

- Investment Castings for body and cap.
- Internal Entry blow-out proof stem.
- Pressure rating: 2000PSI.
- Threaded Ends: ANSI B2,1
- Material: CF8M (316SS)
- Pressure test: API 598
- Generic Handles



LOCKING HANDLE

PART#	SIZE	D	L	H	W	N.M	LBS/ PC	CASE	LIST PRICE
949171	1/4"	0.36	2.13	2.13	4.33	.157	0.64	80	---
949172	3/8"	0.50	2.13	2.16	4.33	.157	0.58	80	---
949173	1/2"	0.59	2.24	2.28	4.53	.197	0.71	70	---
949174	3/4"	0.79	2.76	2.40	4.53	.315	1.18	50	---
949175	1"	0.98	3.50	3.03	6.04	.394	2.33	30	---
949176	1-1/4"	1.25	4.12	3.19	6.04	.551	3.48	20	---
949177	1-1/2"	1.50	4.05	3.54	6.10	.709	4.03	14	---
949178	2"	1.96	4.90	4.25	6.10	.984	7.50	7	---



NO	Part	Material	QTY
1	BODY	316SS	1
2	BALL SEAT	PTFE	2
3	BALL	316SS	1
4	BODY SEAL	PTFE	1
5	CAP	316SS	1
6	STEM	SS316	1
7	THRUST WASHER	PTFE	1
8	PACKING	PTFE	1
9	GLAND NUT	SS304	1
10	HANDLE	SS304	1
11	WASHER	SS304	1
12	NUT	SS304	1
13	LOCK DEVICE	SS304	1
14	HANDLE COVER	PLASTIC	1

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS STANDARD PORT VALVES

VALVES

ONE PIECE STANDARD PORT BALL VALVE

316 Stainless Steel

1000 PSI

- Manufactured for harsh environments with female NPT threads.
- Locking handle for greater security.
- Standard port has restricted flow.
- Made with corrosion resistant stainless steel materials.
- PTFE seat and seals.
- Investment Castings for Body and Cap.
- Internal Entry Blow-out proof stem.
- Pressure rating: 1000PSI (PN63)
- Threaded Ends: ANSI B2.1
- Material: CF8M
- Pressure Test: API 598
- Generic handles

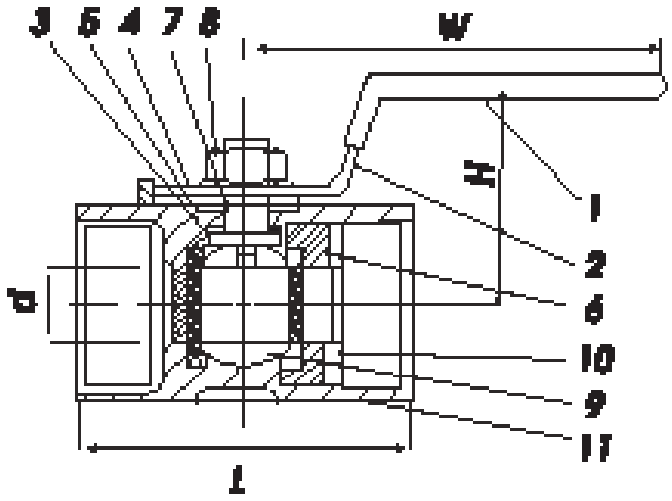
LOCKING HANDLE

Valves will accept a pad-lock on the handle.

dimensions (inches)

PART#	SIZE	D	L	H	W	WEIGHT	CASE	LIST PRICE
949101	1/4"	0.20	1.53	1.53	3.03	0.19	150	---
949102	3/8"	0.27	1.74	1.53	3.03	0.23	150	---
949103	1/2"	0.36	2.24	1.73	3.46	0.41	100	---
949104	3/4"	0.50	2.32	1.89	3.46	0.63	70	---
949105	1"	0.59	2.80	2.24	4.29	0.86	50	---
949106	1-1/4"	0.79	3.07	2.32	4.29	1.34	30	---
949107	1-1/2"	0.98	3.26	2.76	5.14	2.00	25	---
949108	2"	1.25	3.94	2.24	6.50	2.88	15	---

Larger sizes available on special order basis



Item	Parts	Material
1	Plastic Cover	Plastic
2	Handle	AISI 304 SS
3	Thrust Washer	PTFE
4	Packing Ring	AISI 304 SS
5	Stem Packing	PTFE
6	Seat	PTFE
7	Seat	AISI 316 SS
8	Stem Nut	AISI 304 SS
9	Ball	316SS ASTM-A351 CF8M
10	Cap	316SS ASTM-A351 CF8M
11	Body	316SS ASTM-A351 CF8M

SS = Stainless Steel

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS TWO PIECE FULL PORT VALVES

VALVES

TWO PIECE FULL PORT BALL VALVE

316 Stainless Steel

1000 PSI

Materials: CFM8M (SS316)

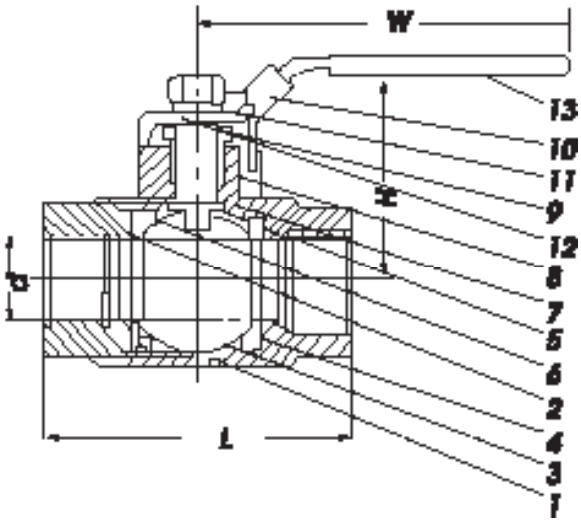
Features:

- Quality manufactured for harsh environments.
- Corrrosion resistant.
- Investment Casting body
- Working pressure 1000 psi for W.O.G.
- Adjustable stem packing
- Pure Polytetrafluoroethylene seals and seats
- Temperature range: -60 to 450°F
- Blow-out proof stem and safe pressure-reducing hole
- 100% leakage tested at 100 psi air under water
- Hydrostatic test pressure: 1500 psi
- Locking handle w/ blue generic sleeve
- 125 Steam rated
- Generic Handles

Valves will accept a pad-lock on the handle.

dimensions (inches)

PART#	SIZE	D	L	H	W	WEIGHT	CASE	LIST PRICE
949161	1/4"	0.36	2.13	2.13	4.33	0.51	80	---
949162	3/8"	0.50	2.13	2.16	4.33	0.49	80	---
949163	1/2"	0.59	2.24	2.28	4.17	0.69	70	---
949164	3/4"	0.79	2.68	2.40	4.17	1.03	50	---
949165	1"	0.98	3.15	2.50	4.88	1.40	30	---
949166	1-1/4"	1.26	3.58	3.19	5.04	2.17	20	---
949167	1-1/2"	1.49	4.05	3.54	6.10	3.33	12	---
949168	2"	1.97	4.88	4.25	6.13	6.02	7	---
949170	3"	3.15	7.28	5.71	9.06	21.01	2	---
949180	4"	3.94	8.84	7.28	11.10	36.18	1	---



Item	Parts	Material
1	Body	316SS ASTM-A351 CF8M
2	Body Cap	316SS ASTM-A351 CF8M
3	Ball	316SS ASTM-A351 CF8M
4	Seat	Reinforced PTFE
5	Stem	AISI 316 SS
6	Seal	Reinforced PTFE
7	Thrust Washer	Reinforced PTFE
8	Packing	Reinforced PTFE
9	Gland Nut	AISI 304SS
10/11	Nut & Washer	AISI 304SS
12	Handle	AISI 304SS
13	Plastic Cover	Plastic

SS = Stainless Steel

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS MINI BALL VALVES

VALVES

STAINLESS STEEL MINI BALL VALVES

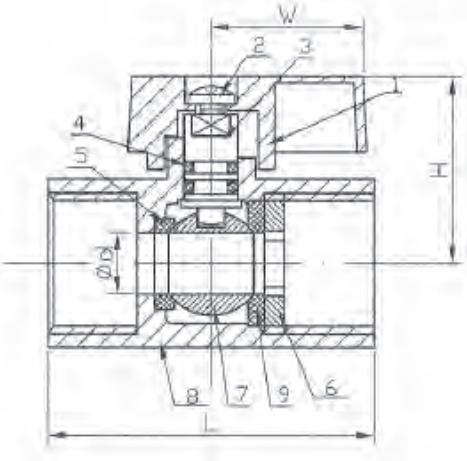
- 316 Stainless Steel
- Working pressure 400PSI
- Working Temperature -10°C to 150°C

FEMALE PIPE x FEMALE PIPE

PART#	SIZE	W	D	H	L	WEIGHT	CASE	LIST PRICE
46934SS	1/8"	.898	.197	.985	1.693	.18	150	---
46935SS	1/4"	.898	.276	.984	1.693	.21	150	---
46936SS	3/8"	.898	.276	.984	1.693	.19	150	---
46937SS	1/2"	.898	.362	1.114	1.811	.26	100	---

MALE PIPE x FEMALE PIPE

PART#	SIZE	W	D	H	L	WEIGHT	CASE	LIST PRICE
46930SS	1/8"	.898	.197	.985	1.693	.18	150	---
46931SS	1/4"	.898	.276	.984	1.693	.18	150	---
46932SS	3/8"	.898	.276	.984	1.693	.19	150	---
46933SS	1/2"	.898	.362	1.114	1.811	.26	100	---



NO	Part	Material	QTY
1	LEVER	ALUMINIUM ALLOY	1
	HANDLES	PLASTIC	
2	BOLT	304	1
3	STEM	304/ 316	1
4	"O" RING	NBR	1~2
5	BALL SEAT (A)	PTFE	1
6	CAP	CF8/ CF8M	1
7	BALL	CF8/ CF8M	1
8	BODY	CF8/ CF8M	1
9	BALL SEAT (B)	PTFE	1

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS MINI BALL VALVES

VALVES

MINI STAINLESS STEEL BALL VALVE ,WITH BUTTERFLY HANDLE

1000PSI WOG , 150PSI WSP
Temperature Range: -36°F to + 368°F
Full Port for 1/4" , Standard port for 3/8" and 1/2"
316 Stainless Steel body and Ball
Polytetrafluoroethylene seats and sealing

- Fluoroelastomer O-Ring
- #316 Stainless Steel
- Made in China

FEMALE PIPE X FEMALE PIPE

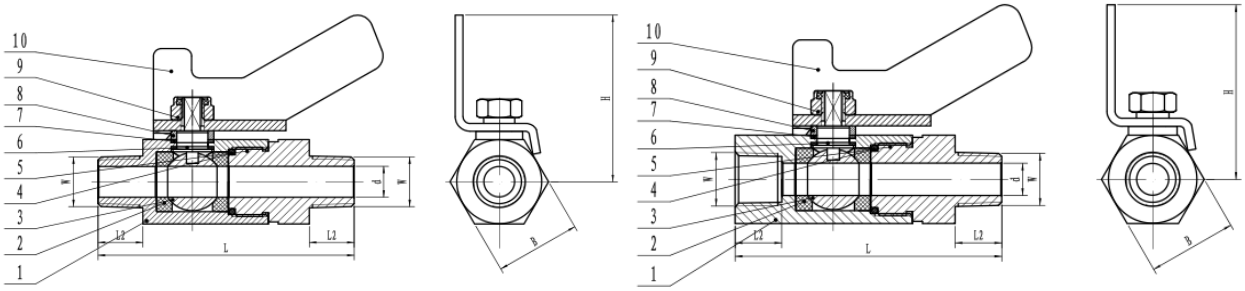
PART #	SIZE FIP X FIP	DIMENSIONS IN				WTG	BOX	
		D	L	B (HEX)	H			
46922SS	1/4"×1/4"	0.314"	2.34"	22.1/0.87"	1.5"	0.33	36	---
46923SS	3/8"×3/8"	0.314"	2.39"	22.1/0.87"	1.5"	0.39	36	---
46924SS	1/2"×1/2"	0.314"	2.81"	24.9/0.98"	1.5"	0.43	36	---

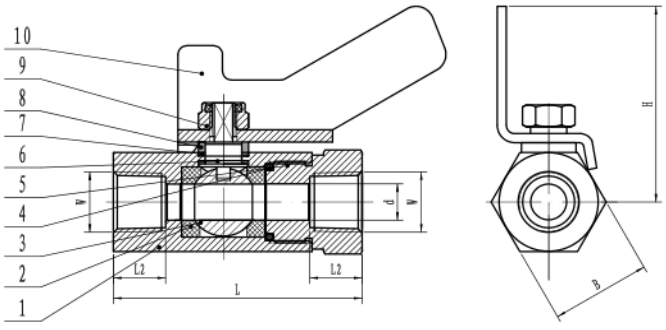
MALE PIPE X FEMALE PIPE

PART #	SIZE MIP X FIP	DIMENSIONS IN				WTG	BOX	
		D	L	B (HEX)	H			
46903SS	1/4"×1/4"	0.314"	2.45"	0.87"	1.5"	0.39	36	---
46904SS	3/8"×3/8"	0.314"	2.45"	0.87"	1.5"	0.36	36	---
46905SS	1/2"×1/2"	0.314"	2.81"	0.98"	1.5"	0.41	36	---

MALE PIPE X MALE PIPE

PART #	SIZE MIP X MIP	DIMENSIONS IN				WTG	BOX	
		D	L	B (HEX)	H			
46912SS	1/4"×1/4"	0.314"	2.59"	0.87"	1.5"	0.33	36	---
46913SS	3/8"×3/8"	0.314"	2.65"	0.87"	1.5"	0.34	36	---
46914SS	1/2"×1/2"	0.314"	2.47"	0.98"	1.5"	0.63	36	---





Part #	Part Name	Material
1	Body	S316
2	Seat	PTFE
3	Ball	S316
4	O-Ring	Fluoroelastomer
5	Cap	S316
6	Stem	S316
7	Stem Bottom Seal	PTFE
8	Stem Up Seal	PTFE

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

#304 STAINLESS STEEL

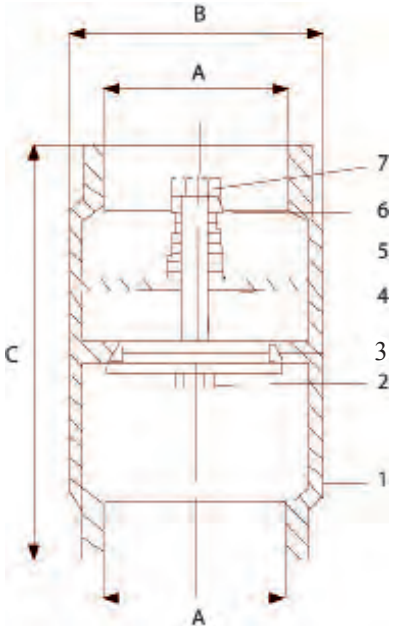
CHECK VALVE

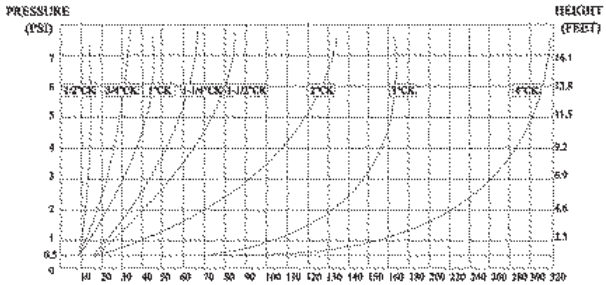
- No Lead.
- Water wells need a check valve installed above the pumps between lengths of drop pipes.
- Opens & Closes with flow of media.
- No cracking pressure.
- Working pressure unavailable.
- Made in Taiwan

DIMENSIONS (INCHES)

PART#	SIZE	A NPT	B	C	BOX/CASE	LIST PRICE
949430	1/2"	1/2"	1.26	2.43	10/100	---
949431	3/4"	3/4"	1.50	2.72	10/80	---
949432	1"	1"	1.77	3.23	10/60	---

More sizes available on a special order basis.





FLOW RATE GALLONS PER MINUTE

NO	Part	Material
1	Body	S.S 304
2	Stopper	S.S 304
3	O-Ring	Fluor
4	Washer	PE
5	Spring	S.S 304
6	Cap	S.S 304
7	Nut	S.S 304

FLUOR* ABBREVIATION FOR FLUOROELASTOMER

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SS IN-LINE CHECK VALVES

VALVES

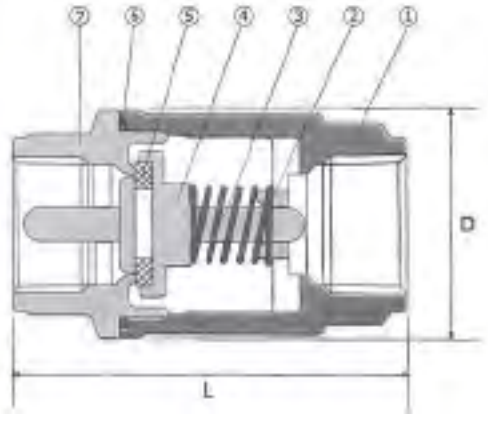
STAINLESS STEEL IN-LINE CHECK VALVE

High Capacity, Size 1/4"-2" 800 WOG

- Soft PTFE Seat for Bubble Tight Shutoff, Spring Loaded for Fast Seating Action
- Low Cracking Pressure 1/2 psi.
- Flow Profile Designed to Minimize Head Loss.
- Perfect Seating both at High and Low Pressure, Wide Temperature Range: +10° to 450°F.
- Corrosion Resistant-Excellent for use on Chemicals.
- ASTM A351-CF8M Investment Casting.
- Connection: FNPT x FNPT.
- 125WSP Saturated Steam.
- ANSI B1.20.1 Threads.
- Dual Guided Stem & Disc.
- Made in Italy

STAINLESS STEEL IN-LINE CHECK

PART#	SIZE	D	L	PSI	LBS	LIST PRICE
949401	1/4"	1.15	2.25	800	0.36	---
949402	3/8"	1.16	2.25	800	0.34	---
949403	1/2"	1.35	2.31	800	0.40	---
949404	3/4"	1.81	2.87	800	0.85	---
949405	1"	2.13	3.50	800	1.30	---
949406	1-1/4"	2.46	4.18	800	2.50	---
949407	1-1/2"	2.88	4.93	800	3.40	---
949408	2"	3.56	6.00	800	6.0	---



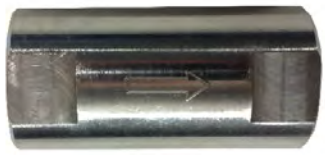
NO	Part	Material	PCS
1	BODY	ASTM A351-CF8M	1
2	SPRING	SS316	1
3	CENTER GUIDE	ASTM A351-CF8M	1
4	DISC	ASTM A351-CF8M	1
5	SEAT	PTFE	1
6	GASKET	PTFE	1
7	END CAP	ASTM A351-CF8M	1

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPRING CHECK VALVE

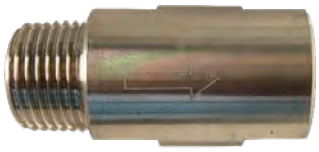
- Working Pressure: 1500PSI (PN100)
- Working Temperature: -10 -150°C
- Opening Pressure: 2~3PSI
- Suitable Medium: W.O.G.
- Threaded End: NPT
- Made in China

FEMALE PIPE x FEMALE PIPE



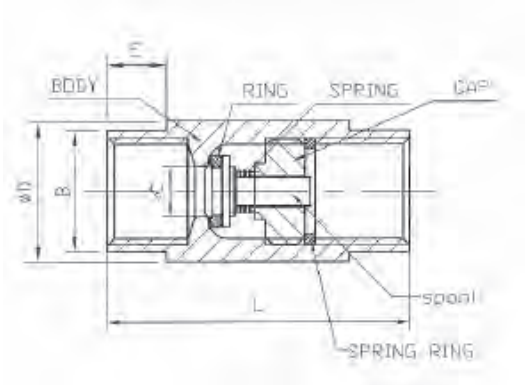
PART#	SIZE	L	C	D	B	E	LBS/ PC	CASE	LIST PRICE
949451	1/4"	2.165	.217	.748	.699	.394	.19	200	---
949452	3/8"	2.165	.295	.866	.787	.394	.21	160	---
949453	1/2"	2.165	.413	1.063	.945	.472	.31	100	---
949454	3/4"	2.677	.591	1.417	1.26	.472	.71	60	---
949455	1"	3.268	.787	1.693	1.496	.591	1.14	36	---

MALE PIPE x FEMALE PIPE



PART#	SIZE	L	C	D	B	E	LBS/ PC	CASE	LIST PRICE
949471	1/4"	2.165	.217	.748	.699	.394	.176	200	---
949472	3/8"	2.165	.295	.866	.787	.394	.22	160	---
949473	1/2"	2.165	.413	1.063	.945	.472	.27	100	---
949474	3/4"	2.677	.591	1.417	1.26	.472	.62	65	---
949475	1"	3.268	.787	1.693	1.496	.591	1.05	40	---

FLOWS MALE -> FEMALE



NO	Part	Material	QTY
1	BODY	316	1
2	RING	Rubber	1
3	SPRING	304	1
4	CAP	CF8M	1
5	SPOOL	304/316	1
6	SPRING RING	304	1

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

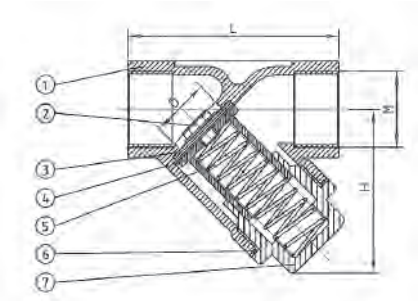
SS Y-SPRING/ BARREL CHECK VALVES

VALVES

Y-SPRING CHECK VALVE

- Working Pressure: 800PSI (PN55)
- Working Temperature: -10 -150°C
- Opening Pressure: 1.5PSI
- Suitable Medium: W.O.G.
- Made in China

PART#	SIZE	L	H	D	LBS/ PC	CASE	LIST PRICE
949481	1/4"	2.559	1.661	.472	.44	70	---
949482	3/8"	2.559	1.661	.472	.51	70	---
949483	1/2"	2.559	1.634	.591	.51	100	---
949484	3/4"	3.15	2.067	.787	.93	80	---
949485	1"	3.543	2.657	.984	1.25	40	---
949486	1-1/4"	4.134	2.795	1.26	2.20	30	---
949487	1-1/2"	4.724	3.169	1.575	3.24	24	---
949488	2"	5.512	3.74	1.969	5.21	10	---

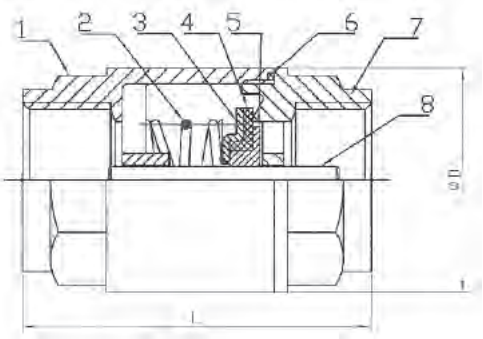


NO	Part	Material	QTY
1	BODY	CF8M/ CF8	1
2	BOLT	304	1
3	SEAT	Polytetrafluoroethylene	1
4	DISC	304	1
5	SPRING	304	1
6	GASKET	Polytetrafluoroethylene	1
7	CAP	CF8M/ CF8	1

2PC BARREL TYPE SPRING CHECK VALVE

- Working Pressure: 300PSI (PN20)
- Working Temperature: -10 -120°C
- Opening Pressure: 2PSI
- Suitable Medium: W.O.G.
- Threaded end: NPT
- Made in China

PART#	SIZE	L	D	LBS/ PC	CASE	LIST PRICE
949441	1/4"	2.00	1.142	.27	100	---
949442	3/8"	2.00	1.142	.24	100	---
949443	1/2"	2.24	1.28	.36	100	---
949444	3/4"	2.44	1.594	.54	60	---
949445	1"	2.95	1.89	.88	30	---
949446	1-1/4"	3.23	2.362	1.39	18	---
949447	1-1/2"	3.46	2.756	1.81	25	---
949448	2"	3.94	3.425	2.86	14	---



NO	Part	Material	QTY
1	BODY	CF8M/ CF8	1
2	BOLT	304	1
3	SEAT	NBR	1
4	DISC	304	1
5	SPRING	316/ 304	1
6	GASKET	PTFE	1
7	CAP	CF8M/ CF8	1

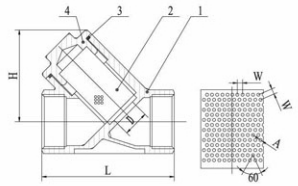
WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS MISCELLANEOUS VALVES

VALVES

#316 SS Y STRAINER

- Investment Castings for Body
- Pressure Rating: 800PSI (PN40)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China



• 40 Mesh screen

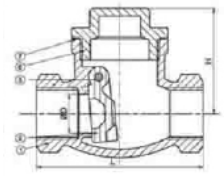
	Part	Material	QTY
1	BODY	CF8M	1
2	SCREEN	SS316	1
3	JOINT GASKET	PTFE	1
4	BONNET	CF8M	1

PART #	SIZE	D	L	H	W	ØA	LBS	LIST PRICE
949521	1/4"	.38"	2.53	51	1.69	1	0.44	---
949522	3/8"	.48"	2.53	51	1.69	1	0.38	---
949523	1/2"	.59"	2.53	51	1.76	1	0.46	---
949524	3/4"	.79"	3.12	60	2.07	1	0.69	---
949525	1"	.98"	3.57	72	2.67	1	1.27	---
949526	1-1/4"	1.26"	4.17	77	2.9	1	1.74	---
949527	1-1/2"	1.57"	4.71	87	3.23	1	2.38	---
949528	2"	1.96"	5.49	102	3.88	1	3.57	---

316 SS SWING CHECK VALVE

- 200PSI(PN16)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China

	Part	Material	QTY
1	BODY	CF8M	1
2	DISC	CF8M	1
3	PIPE PLUG	CF8	1
4	SCREW	CF8	1
5	SCREW GASKET	PTFE	1
6	CAP	CF8M	1
7	CAP GASKET	PTFE	1



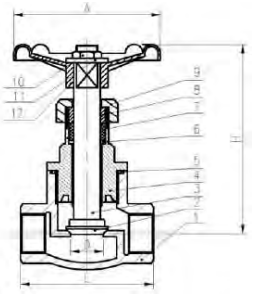
PART #	SIZE	D	L	W	LBS	LIST PRICE
949353	1/2"	.59"	2.45	1.66	0.53	---
949354	3/4"	.79"	2.92	1.82	0.73	---
949355	1"	.98"	3.41	2.06	1.2	---
949356	1-1/4"	1.26"	3.93	2.32	1.79	---
949357	1-1/2"	1.57"	4.54	2.54	2.18	---
949358	2"	1.96"	5.3	2.78	3.03	---

CF8 = 304SS

316 SS GLOBE VALVES

- 200PSI(PN16)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China

	Part	Material	QTY
1	BODY	CF8M	1
2	DISC	CF8M	1
3	STEM	304SS	1
4	CAP	CF8M	1
5	SEAL	PTFE	1
6	GASKET	304SS	1
7	PACKING	PTFE	1
8	GASKET	CF8	1
9	GLAND	304SS	1
10	NUT	304SS	1
11	SPRING WASHER	CF8	1
12	HANDLE WHEEL	Steel	1

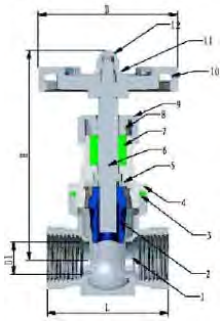


PART #	SIZE	L	LBS	LIST PRICE
949303	1/2	2.64	0.89	---
949304	3/4	3.19	1.3	---
949305	1	3.46	1.72	---
949306	1-1/4	3.81	2.33	---
949307	1-1/2	4.25	3.11	---
949308	2	5.1	4.38	---

316 SS GATE VALVES

- 200PSI(PN16)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China

	Part	Material	QTY
1	BODY	CF8M	1
2	DISC	CF8M	1
3	SEAL	CF8M	1
4	CAP	CF8M	1
5	SEAL	PTFE	1
6	STEM	304SS	1
7	SEAL	PTFE	1
8	GLAND	304SS	1
9	NUT	304SS	1
10	HANDLE WHEEL	Steel	1
11	GASKET	PTFE	1
12	CAP NUT	CF8	1



PART #	SIZE	L	D	D1	H	LBS	LIST PRICE
949253	1/2	2.07	2.54	0.55	3.37	0.78	---
949254	3/4	2.28	2.89	0.74	4.03	0.99	---
949255	1	2.42	2.89	0.95	4.46	1.25	---
949256	1-1/4	2.79	3.06	1.18	4.86	1.76	---
949257	1-1/2	2.92	3.79	1.49	5.53	2.59	---
949258	2	3.3	4.17	1.85	6.12	3.54	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CARBON STEEL BALL VALVES

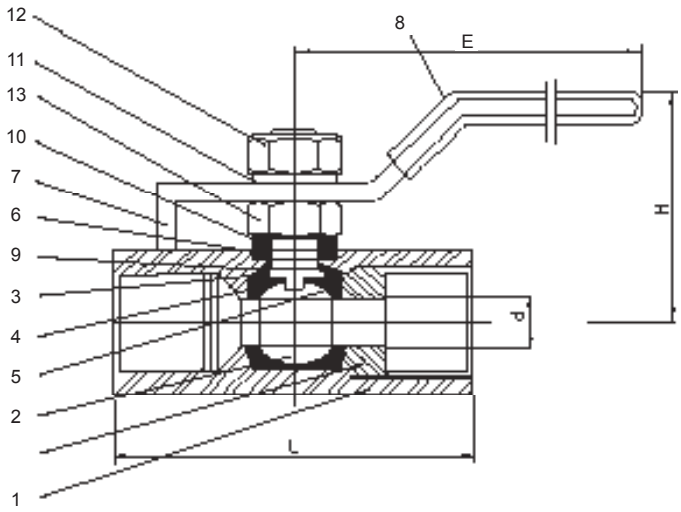
VALVES

STANDARD PORT CARBON STEEL BALL VALVE

- For chemical and industrial applications.
- Blow-out proof stem design.
- 100% air tested under water, at 100 psi, open and closed positions.
- Made in China
- Generic handles

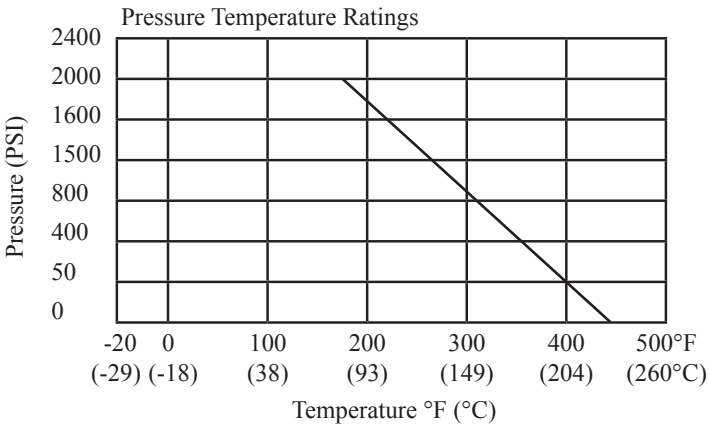
SPECIFICATIONS

- Working Pressure: 1/4" ~ 1" 2000 psi WOG, 1-1/4" ~ 2" 1500 psi WOG,
- Temperature Range: -60^0 to 450^{0}F
- End types: Threaded
- 1 piece ball valve
- Reinforced PTFE seat



2000 PSI STANDARD PORT

PART #	SIZE	D	H	E	L	WTG	BOX/ CASE	LIST PRICE
949121	1/4	.20	1.38	2.95	1.71	0.25	24/96	------
949122	3/8	.28	1.30	3.27	1.87	0.32	100/200	------
949123	1/2	.36	2.36	4.53	2.20	0.67	50/100	------
949124	3/4	.49	2.72	4.53	2.58	1.06	50/100	------
949125	1	.59	2.95	5.00	3.19	1.17	25/50	------
949126	1-1/4	.78	3.07	5.29	3.94	3.15	15/30	------
949127	1-1/2	0.98	3.39	5.29	3.94	2.15	15/30	------
949128	2	1.26	3.86	5.29	4.49	6.21	10/20	------



Item	Parts	Material
1	Body	ASTM A216 WCB
2	Ball	ASTM A351 CF8
3	Stem	304
4	Ball Seat	PTFE
5	Cap Seal	PTFE
6	Packing	PTFE
7	Handle	SS304
8	Handle Sleeve	Vinyl Grip
9	Thrust Washer	PTFE
10	Gland	SS304
11	Washer	SS304
12	Handle Nut	SS304
13	Stem Nut	SS304

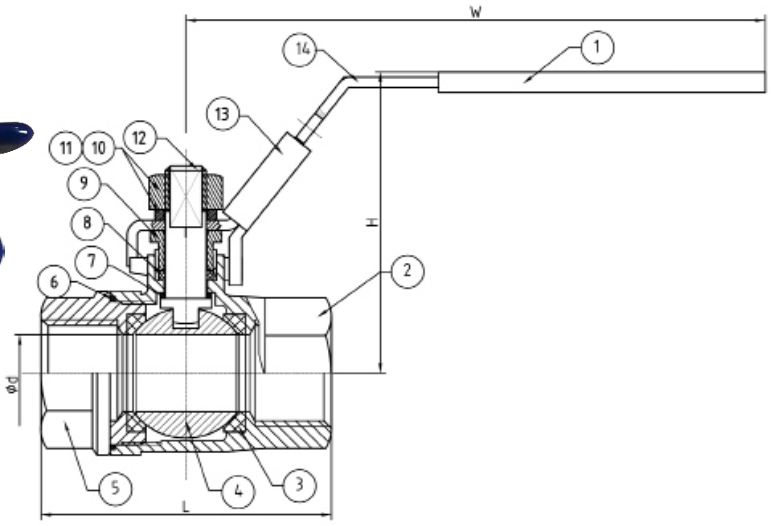
WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

2000 PSI CARBON STEEL 2PC FULL PORT BALL VALVE

• 2 PIECE

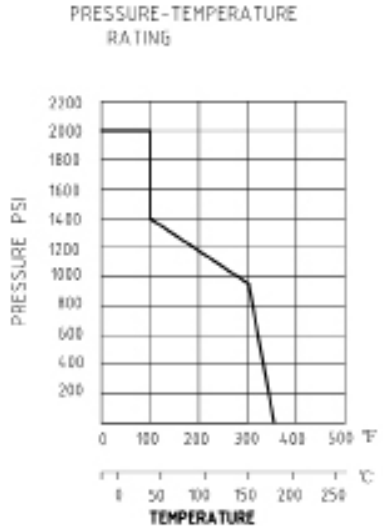
SPECIFICATIONS

- Working Pressure: 2000 PSI (138 Bar)
- Temperature Range: -10° C-150° C
- Suitable medium: WOG
- Threaded End conforms to ANSI B1.20.1
- Made in China
- Generic handle



2000 PSI FULL PORT

PART #	SIZE	D	L	H	W	WTG	BOX/ CASE	LIST PRICE
949111	1/4	0.36	2.13	2.13	4.33	0.59	70	---
949112	3/8	0.50	2.13	2.17	4.33	0.59	70	---
949113	1/2	0.59	2.24	2.28	4.33	0.75	60	---
949114	3/4	0.79	2.76	2.40	4.33	1.17	50	---
949115	1	0.98	3.25	3.03	5.04	1.88	30	---
949116	1-1/4	1.26	3.58	3.19	5.04	2.45	20	---
949117	1-1/2	1.50	4.06	3.54	6.10	4.06	20	---
949118	2	1.97	4.90	4.25	6.10	2.43	7	---



Item	Parts	Material
1	Handle cover	Plastic
2	Body	CF8M
3	Ball seat	PTFE
4	Ball	CF8M
5	Cap	CF8M
6	Joint gasket	PTFE
7	Thrust washer	PTFE
8	Stem packing	PTFE
9	Gland nut	304
10	Spring washer	304
11	Stem nut	304
12	Stem	316
13	Lock device	304
14	Handle	304

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HIGH PRESSURE FULL PORT 2-WAY VALVES

VALVES

FULL PORT Two-Way

BKH

PART #	THREAD	WORKING PRESSURE	LIST PRICE
GE214NPT	1/4" NPT	7250 PSI	---
GE238NPT	3/8" NPT	7250 PSI	---
GE212NPT	1/2" NPT	7250 PSI	---
GE234NPT	3/4" NPT	5800 PSI	---
GE21NPT	1" NPT	5075 PSI	---
GE2114TNPT*	1-1/4" NPT	5000 PSI	---
GE2112TNPT*	1-1/2" NPT	5000 PSI	---

PART #	THREAD	WORKING PRESSURE	LIST PRICE
GE204SAE	7/16-20 UNF	7250 PSI	---
GE206SAE	9/16-18 UNF	7250 PSI	---
GE208SAE	3/4-16 UNF	7250 PSI	---
GE212SAE	1-1/16-12 UNF	5800 PSI	---
GE216SAE	1-5/16-12 UNF	5000 PSI	---

*** Reduced Port**
+ 'L' flow pattern

Temp Rating = -22° - 212°F

Construction: Steel Body, Ball, Stem
Zinc Chromate Plate
Buna "O" Rings (Fluoroelastomer on request)
Delrin Ball Seats

FULL PORT Three-Way

BK3

PART #	THREAD	WORKING PRESSURE	LIST PRICE
GE3L14NPT	1/4" NPT	5880 PSI	---
GE3L38NPT	3/8" NPT	5880 PSI	---
GE3L12NPT	1/2" NPT	5145 PSI	---
GE3L34NPT	3/4" NPT	5145 PSI	---
GE3L1NPT	1" NPT	5145 PSI	---
GE3L114TNPT	1 1/4" NPT	4500 PSI	---
GE3L112TNPT	1 1/2" NPT	4500 PSI	---

PART #	THREAD	WORKING PRESSURE	LIST PRICE
GE3L04SAE	7/16-20 UNF	5880 PSI	---
GE3L06SAE	9/16-18 UNF	5880 PSI	---
GE3L08SAE	3/4-16 UNF	5145 PSI	---
GE3L12SAE	1-1/16-12 UNF	5145 PSI	---
GE3L16SAE	1-5/16-12 UNF	5145 PSI	---

+ 'L' flow pattern

Temp Rating = -22° - 212°F

Construction: Steel Body, Ball, Stem
Zinc Chromate Plate
Buna "O" Rings (Fluoroelastomer on request)
Delrin Ball Seats

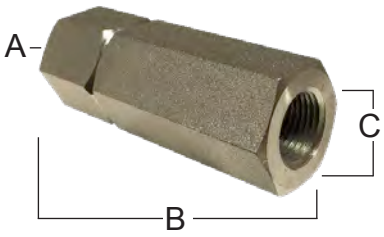
WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HIGH PRESSURE CHECK VALVES

VALVES

CHECK VALVES - HARD SEAT CARBON STEEL CONSTRUCTION - 5lb Cracking Pressure

• **w/ NPT threads**



A (NPT Female both ends)

PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI	LIST PRICE
100025	1/4 NPT	2.44	.87	6	5,000	---
100035	3/8 NPT	2.87	.95	10	5,000	---
100045	1/2 NPT	3.76	1.26	18	5,000	---
100065	3/4 NPT	4.30	1.50	30	5,000	---
100085	1 NPT	4.74	1.83	36	5,000	---
1000105	1-1/4 NPT	5.56	2.40	50	3,000	---
1000125	1-1/2 NPT	5.56	2.56	60	3,000	---

CHECK VALVES - HARD SEAT CARBON STEEL CONSTRUCTION - 65lb Cracking Pressure

PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI	LIST PRICE
1000265	1/4NPT	2.45	.87	6	5,000	---
1000365	3/8NPT	2.91	.94	10	5,000	---
1000465	1/2NPT	3.74	1.18	18	5,000	---
1000665	3/4NPT	4.29	1.26	30	5,000	---
1000865	1NPT	5.00	1.81	36	5,000	---
10001065	1-1/4NPT	5.20	2.41	50	3,000	---
10001265	1-1/2NPT	5.20	2.56	60	3,000	---

CHECK VALVES - 5lb Cracking Pressure

• **w/ SAE threads**

PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI	LIST PRICE
100145	7/16-20 SAE	2.56	.87	6	5,000	---
100165	9/16-18 SAE	2.91	.94	10	5,000	---
100185	3/4-16 SAE	3.74	1.18	18	5,000	---
1001125	1-1/6-12 SAE	4.29	1.50	30	3,000	---
1001165	1-5/16-12 SAE	5.00	1.81	36	3,000	---
1001205	1-5/8-12 SAE	5.20	2.41	50	3,000	---
1001245	1-7/8-12 SAE	5.20	2.56	60	3,000	---

CHECK VALVES - 65lb Cracking Pressure

• **w/ SAE threads**

PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI	LIST PRICE
1001465	7/16-20 SAE	2.56	.87	6	5,000	---
1001665	9/16-18 SAE	2.91	.94	10	5,000	---
1001865	3/4-16 SAE	3.74	1.18	18	5,000	---
10011265	1-1/6-12 SAE	4.29	1.50	30	3,000	---
10011665	1-5/16-12 SAE	5.00	1.81	36	3,000	---
10012065	1-5/8-12 SAE	5.20	2.41	50	3,000	---
10012465	1-7/8-12 SAE	5.20	2.56	60	3,000	---

Rated Pressure: Sizes 2 thru 8 - 5000 psi / Sizes 10 thru 24 - 3000 psi

• Soft Seat available by special quote

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

PVC VALVES

VALVES

WHITE PVC BALL VALVES

- Quarter turn
- Solvent ends comply with ASTM D2466
- Designed for use in residential, commercial & industrial system as well as waste water, chemical, agricultural applications, marine, food processing, swimming pools.
- Corrosion resistant
- EPDM seal
- FULL PORT
- EPDM O-ring
- Fits both Sch. 40 & 80 pipe
- Rated for 150 PSI at 73°F
- Threaded ends comply with ANSI B1.20.1

MOLDED IN PLACE - WHITE PIPE THREADS

PART#	SIZE	CASE	LIST PRICE
940284	1/2"	100	---
940285	3/4"	100	---
940286	1"	100	---
940287	1-1/4"	100	---
940288	1-1/2"	48	---
940289	2"	24	---
940291	3"	12	---
940292	4"	6	---

WHITE SOCKET - SLIP X SLIP

PART #	SIZE	CASE	LIST PRICE
940294	1/2"	100	---
940295	3/4"	100	---
940296	1"	100	---
940297	1-1/4"	100	---
940298	1-1/2"	48	---
940299	2"	24	---
940300	2-1/2"	12	---
940301	3"	12	---
940302	4"	6	---

GREY PVC BALL VALVES

FEATURES

- Sizes range from 1/2" to 4"
- Excellent flow characteristics
- Leak-tight shut-off
- EPPM O-Ring
- SCH 80
- Test pressure: 225 psi @ 73°F
- Working Pressure: 150 psi @ 73°F

FIP X FIP THREADED BALL VALVE

PART #	SIZE	CASE	LIST PRICE
899000	1/2"	100	---
899001	3/4"	100	---
899002	1"	100	---
899003	1-1/4"	100	---
899004	1-1/2"	48	---
899005	2"	24	---

SLIP X SLIP BALL VALVE

PART #	SIZE	CASE	LIST PRICE
899050	1/2"	100	---
899051	3/4"	100	---
899052	1"	100	---
899053	1-1/4"	100	---
899054	1-1/2"	48	---
899055	2"	24	---

CPVC BALL VALVE

PART #	SIZE	LIST PRICE
940281	1/2"	---
940282	3/4"	---

WARNING: This product can expose you to chemicals, including Chloroethane, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

INLINE PLASTIC SPRING CHECK VALVE

Socket x Socket

- 200 PSI working pressure @ 77°F .5 PSI to open.

PART#	SIZE	LIST PRICE
940325	1/2"	---
940326	3/4"	---
940327	1"	---
940328	1-1/4"	---
940329	1-1/2"	---
940330	2"	---

INLINE PLASTIC SPRING CHECK VALVE FEMALE THREADED ENDS

- 200 PSI working pressure @ 77°F .5 PSI to open.

PART#	SIZE	LIST PRICE
940331	1/2"	---
940332	3/4"	---
940333	1"	---
940334	1-1/4"	---
940335	1-1/2"	---
940336	2"	---

PLASTIC DRUM FAUCETS

- Pipe threads to ANSI B1.20.1
- Hose threads to ANSI B

The FLO-RITE faucet has been engineered to meet the demand for greater chemical resistance, using linear polyethylene for the stem.

"FLO-RITE" DRUM FAUCET

PART #	SIZE	LIST PRICE
46277	3/4"	---

DRUM & BARREL FAUCET VALVE

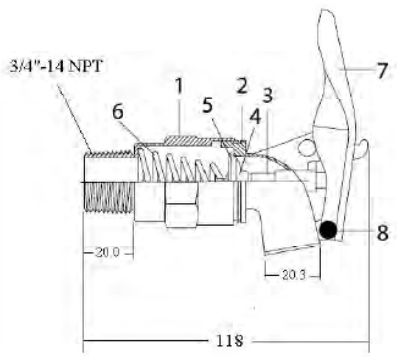
- Die cast body w/ nylon seat and steel spring.
- For use with all petroleum products except trichlorethylene.

G261N

Not suitable for potable water

SELF-CLOSING DRUM & BARREL FAUCET

PART #	SIZE	LIST PRICE
46270	3/4"	---



Part #	Part Name	Material
1	Body	Zinc
2	Bonnet	Zinc
3	Stem	Steel
4	Disc	Plastic
5	Seal	Rubber
6	Spring	Zinc plated steel
7	Handle	Aluminum
8	Rivet	Aluminum

WARNING: This product can expose you to chemicals, including Chloroethane, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

DUCTILE IRON VALVES AND ACCESSORIES

WAFER STYLE - LEVER OPERATED

NICKLE PLATED DUCTILE IRON DISC & SS DISC

WAFER STYLE GEAR OPERATED

NICKLE PLATED DUCTILE IRON DISC & SS DISC

BUTTERFLY ACCESSORIES

WAFER STYLE DOUBLE DOOR CHECK VALVE

AWWA C508 OUTSIDE LEVER

AND WEIGHT CHECK VALVES

UL/FM FLANGED SWING CHECK VALVE

SWING CHECK FLANGED

AWWA C515-15 GATE VALVES

FLANGED OS & Y RESILIENT WEDGE GATE VALVE

NRS RESILENT WEDGE GATE VALVES, FLANGED, MECHANICAL JOINT & FLANGE BY MECHANICAL JOINT

LEVER - WAFER

Small in size and light in weight, easy to install. It can be mounted wherever needed, quick 90° on-off operation. Disc has two-way bearing, perfect seal without leakage under the pressure test. Flow curve tending to straight-line. Strong wash and brush resistence and can fit to bad working condition. Center plate structure, small torque of open and close. Disc & stem are fastened by pin, more stable.

STANDARD:
1.DESIGN CODE :AP1609 Class A
2.FACE TO FACE : AP1609
3.END STANDARD:ANSI B16.5 125LB/150LB
4.INSPECTION & TEST:API 598

TOP FLANGE DIMENSIONS	
SIZE	4-Φd2
1.5"-3"	4-0.276
4"-6"	4-0.39
8"-14"	4-0.47

PART#	DUCTILE IRON DISC/ BUNA SEAT/ LEVER	CASE	WEIGHT	
9650L2	2"	200	7.3	---
9650L2.5	2-1/2"	190	8.4	---
9650L3	3"	180	9.8	---
9650L4	4"	150	12.1	---
9650L5	5"	110	16.5	---
9650L6	6"	90	16.9	---
9650L8	8"	50	30.3	---
9650L10	10"	35	44.5	---
9650L12	12"	24	51.6	---

SS DISC/ EPDM SEAT/ LEVER

PART#	SIZE	
9650L2SE	2"	---
9650L3SE	3"	---
9650L4SE	4"	---
9650L5SE	5"	---
9650L6SE	6"	---
9650L8SE	8"	---
9650L10SE	10"	---
9650L12SE	12"	---

GEAR - WAFER

STANDARD:
1.DESIGN CODE :AP1609 Class A
2.FACE TO FACE : AP1609
3.END STANDARD:ANSI B16.5 125LB/150LB
4.INSPECTION & TEST:API 598

TOP FLANGE DIMENSIONS

SIZE	ISO5211	ΦK	ΦE	4-ΦD2
1.5"-3"	F05	2.56	1.97	4-0.276
4"-6"	F07	3.54	2.76	4-0.39
8"-14"	F10	4.92	4.02	4-0.47

PART#	WAFER/ DUCTILE IRON DISC/ BUNA SEAT/ GEAR	CASE	WEIGHT	
9650G2	2"	200	7.3	---
9650G2.5	2-1/2"	190	8.4	---
9650G3	3"	180	9.8	---
9650G4	4"	150	12.1	---
9650G6	6"	90	16.9	
9650G8	8"	50	30.3	---
9650G10	10"	35	44.5	---
9650G12	12"	24	51.6	---

WAFER/ SS DISC/ EPDM SEAT/ GEAR

PART#	SIZE	
9650G2SE	2"	---
9650G2.5SE	2-1/2"	---
9650G3SE	3"	---
9650G4SE	4"	---
9650G6SE	6"	---
9650G8SE	8"	---
9650G10SE	10"	---
9650G12SE	12"	---

BUTTERFLY VALVES - LUG

VALVES

LEVER - LUG

Small in size and light in weight, easy to install, can be mounted wherever needed. Lug type butterfly valve can be used at the end of the pipeline. Lug type butterfly valve has threaded metal inserts installed in the valve's bolt holes. Inserts are threaded on both ends, which allows this lug style valve to be installed into a system using two sets of bolts and no nuts for each hole. Valve is installed between two flanges using a separate set of bolts for each side of the flange. This setup permits either side of the piping system to be disconnected without disturbing the other side.

PART#	DUCTILE IRON DISC/ BUNA SEAT/ LEVER	CASE	WEIGHT	
9660L2	2"	200	7.3	---
9660L2.5	2-1/2"	190	8.4	---
9660L3	3"	180	9.8	---
9660L4	4"	150	12.1	---
9660L5	5"	110	16.5	---
9660L6	6"	90	16.9	---
9660L8	8"	50	30.3	---
9660L10	10"	35	44.5	---
9660L12	12"	24	51.6	---

SS DISC/ EPDM SEAT/ LEVER

PART#	SIZE	
9660L2SE	2"	---
9660L3SE	3"	---
9660L4SE	4"	---
9660L5SE	5"	---
9660L6SE	6"	---
9660L8SE	8"	---
9660L10SE	10"	---
9660L12SE	12"	---

GEAR - LUG

PART#	DUCTILE IRON DISC/ BUNA SEAT/ GEAR	CASE	WEIGHT	
9660G2	2"	200	7.3	---
9660G2.5	2-1/2"	190	8.4	---
9660G3	3"	180	9.8	---
9660G4	4"	150	12.1	---
9660G6	6"	90	16.9	---
9660G8	8"	50	30.3	---
9660G10	10"	35	44.5	---
9660G12	12"	24	51.6	---

SS DISC/ EPDM SEAT/ GEAR

PART#	SIZE	
9660G2SE	2"	---
9660G2.5SE	2-1/2"	---
9660G3SE	3"	---
9660G4SE	4"	---
9660G6SE	6"	---
9660G8SE	8"	---
9660G10SE	10"	---
9660G12SE	12"	---

STEM EXTENSIONS

- FOR BOLTS AND NUTS
- BLACK COLOR

PART#	FOR VALVE SIZES ""	LENGTH	
9650EX2324	2-3	24 LONG	---
9650EX2336	2-3	36 LONG	---
9650EX2348	2-3	48 LONG	---
9650EX2360	2-3	60 LONG	---
9650EX2372	2-3	72 LONG	---
9650EX4624	4-6	24 LONG	---
9650EX4636	4-6	36 LONG	---
9650EX4648	4-6	48 LONG	---
9650EX4660	4-6	60 LONG	---
9650EX4672	4-6	72 LONG	---
9650EX1224	8-12	24 LONG	---
9650EX1236	8-12	36 LONG	---
9650EX1248	8-12	48 LONG	---
9650EX1260	8-12	60 LONG	---
9650EX1272	8-12	72 LONG	---

LEVER REPLACEMENT

PART#	REPLACEMENT LEVER HANDLE FOR	
9650L23	2-3 9650BFV	---
9650L46	4-6 9650 BFV	---
9650L812	8-10 9650 B	---
9650L120	12 9650 BFV	---

GEAR WHEEL HANDLE

PART#	REPLACEMENT WHEEL HANDLE FOR	
9650WH23	2-3" 9650 BFV	---
9650WH46	4-6" 9650 BFV	---
9650WH812	8-12" BFV	---

ROLL PIN

PART#	REPLACEMENT ROLL PIN FOR	
9650RP23	2-3 9650 BFV	---
9650RP46	4-6 9650 BFV	---
9650RP12	8-12 9650 BFV	----

INDEX PLATE

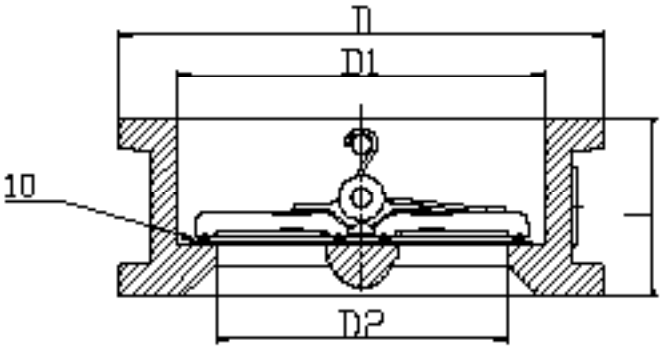
PART#	REPLACEMENT INDEX PLATE	
9650IP23	2-3" 9650BFV	---
9650IP46	4-6" 9650BFV	---
9650IP812	8-12" 9650 B	---

GEAR REPLACEMENT

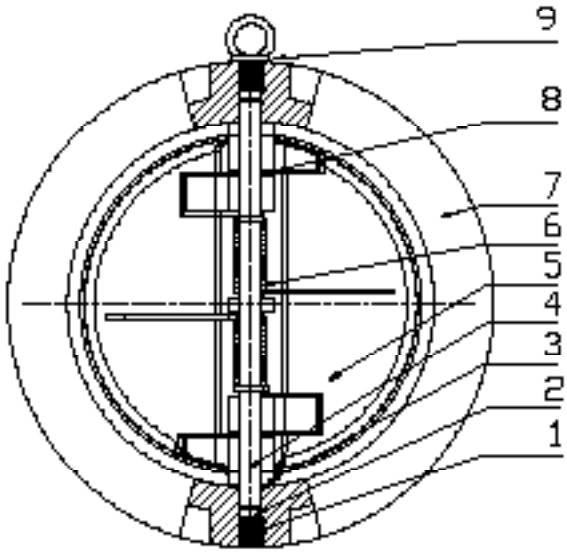
PART#	REPLACEMENT GEAR OPERATOR	
9650G23	2-3 9650 BFV	---
9650G46	4-6 9650 BFV	---
9650G812	8-10 9650BFV	---
9650G120	12 - 9650BFV	---

DUCTILE IRON CHECK VALVES
VALVES

DOUBLE DOOR WAFER CHECK VALVE



Part	Part	MATERIAL
1	Countersunk Hex Head Screws	Carbon Steel ASTM A325
2	Stal Ring	EPDM
3	Gasket	PTFE
4	Shaft	Stainless Steal SS420
5	Disc	Aluminum Brance C954
6	Spring	Stainless Steal SS304
7	Body	Ductile Lron ASTM 65-45-12

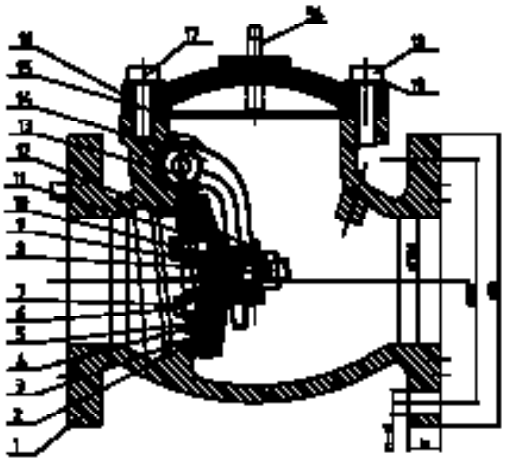


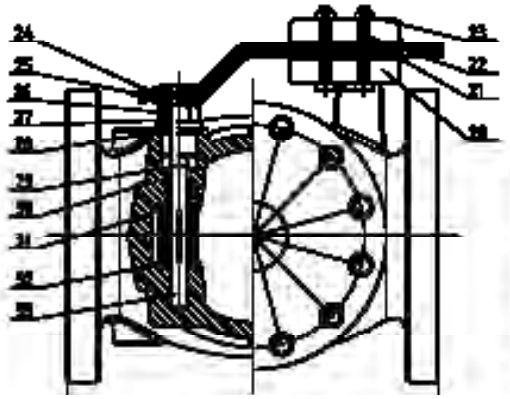
MAIN DIMENSIONS					
DN		Dimensions (mm)			
inch	mm	L	D	D1	D2
2	50	54	102	64	46
21/2'	65	54	121	78	60
3	80	57	134	94	70
4	100	64	162	117	84
5	125	70	192	145	115
6	150	76	218	170	134
8	200	95	273	224	184
10	250	108	335	265	220
12	300	143	407	310	260
14	350	184	442	360	302
16	400	191	511	410	350

PART#	SIZE	CASE	WEIGHT	
963002	2	50	4	---
963025	2-1/2	40	5	---
963003	3	20	8	---
963004	4	20	13	---
963005	5	20	16	---
963006	6	10	20	---
963008	8	10	38	---
963010	10	10	38	---
963012	12	5	92	---
963014	14	4	121	---
963016	16	4	165	---

CHECK VALVE W/OUTSIDE L/W

AWWA C508 CHECK VALVE W/OUTSIDE L/W





Part	Part	MATERIAL
1	Valve Body	Ductile iron 65-45-12
2	Seat	ASTM B62 C83600
3	Disc	Ductile iron 65-45-12
4	Disc Seat Ring	NBR
5	Retainer Washer	Ductile iron 65-45-12
6	Washer	AISI 304
7	Bolt	AISI 304
8	Stud	ASTM B62 C83600
9	Roll Pin	AISI 304
10	Roll Pin	AISI 304
11	Nut	ASTM B62 C83600
12	Washer	ASTM B62 C83600
13	Flat Key	AISI 304
14	Clapper Arm	Ductile iron 65-45-12
15	O-Ring	NBR
16	Bonnet	Ductile iron 65-45-12
17	Bolt	AISI 316
18	Bolt	AISI 316
19	Washer	AISI 316
20	Weight	Ductite iron,65-45-12
21	Arm	Cast steel WCB
22	Bolt	AISI 316
23	Nut	AISI 316
24	Nut	AISI 316
25	Bolt	AISI 316
26	Seat Nut	ASTM B62 C83600
27	O-Ring	NBR
28	Gasket	PTFE
29	Circlip	Carbon steel
30	Shaft sleeve gland	ASTM B62 CB3600

MAIN DIMENSIONS (mm)

inch	DN	L	D	D1	b	n-d	H
3"	80	241	200	152.5	19	4-19.1	173
4"	100	292	229	190.5	24	8-19.1	175.5
6"	150	356	285	241.5	25.5	8-22.2	237.5
8"	200	495	343	298.5	28.5	8-22.2	272.5
10"	250	622	406	362	30.5	12-25.4	326
12"	300	698	483	432	32	12-25.4	358

UL/FM FLANGED SWING CHECK VALVE

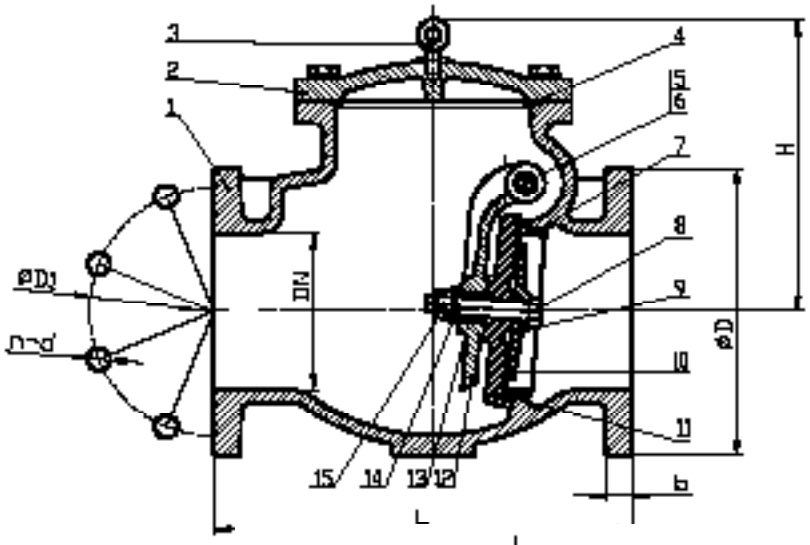
PART#	SIZE	CASE	WEIGHT	
96203LW	3	16	57	---
96204LW	4	12	84	---
96206LW	6	6	156	---
96208LW	8	4	294	---
962010LW	10	2	466	---
962012LW	12	2	627	---

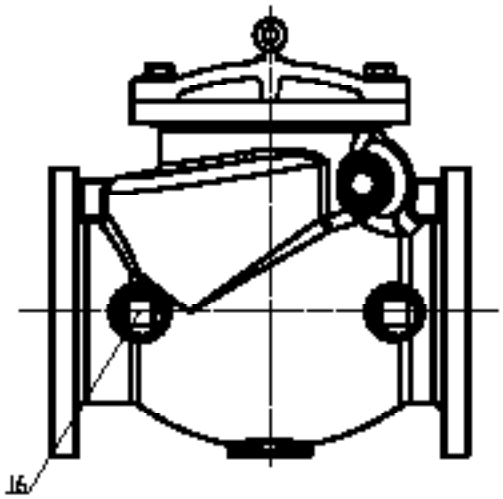
PART#	SIZE	CASE	WEIGHT	
96203UL	3	36	50	---
96204UL	4	36	77	---
96206UL	6	14	140	---
96208UL	8	4	266	---
962010UL	10	1	398	---
962012UL	12	1	533	---

DUCTILE IRON CHECK VALVES

VALVES

AWWA C508 & AWWA C515 SWING CHECK VALVE FLANGED





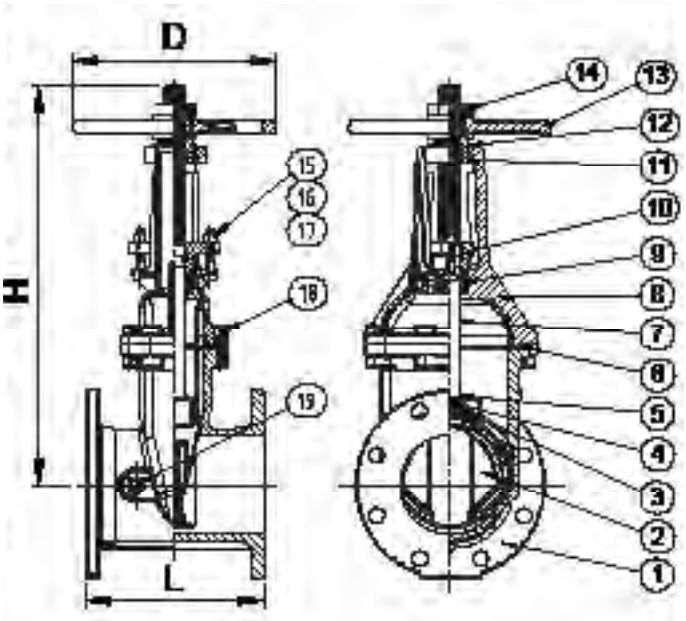
Part	Part	MATERIAL
1	Valve Body	Ductile Iron 65-4
2	Bonnet	Ductile Iron 65-45-12
3	Sling Ring	Carbon Steel Zinc Plated
4	O Ring	NBR
5	Hinge Pin	Stainless Steel 304
6	Hinge bushing	Brass ASTM B36
7	Seat Ring	Bronze ASTM B62
8	Disc Seat Bolts	Stainless Steel 304
9	Retainer Washer	Bronze ASTM B62
10	Disc Seat Ring	EPDM
11	Disc	Ductile Iron 65-45-12
12	Ctapper Arm	Ductile Iron 65-45-12
13	Stud Bushing	Bronze ASTM B36
14	O Ring	NBR
15	Nuts	Stainless Steel 304
16	Plug	Tin bronze

MAIN DIMENSIONS

DN		PSI	Dimensions (mm)					
inch	mm		L	D	D1	b	n-d	H
3"	80	300	278	191	152.5	19	4-19.1	160
4"	100	300	330	229	190.5	24	8-19.1	218
6"	150	300	406	279	241.5	25.5	8-22.2	290
8"	200	300	495	343	298.5	28.5	8-22.2	330
10"	250	300	622	406	362	30.5	12-25.4	350
12"	300	300	660	483	432	32	12-25.4	376

PART#	SIZE	CASE	WEIGHT	
962003	3	16	57	---
962004	4	12	84	---
962006	6	6	156	---
962008	8	4	294	---
962010	10	2	466	---
962012	12	2	627	---

C515 OS&Y RESILIENT SEATED GATE VALVE
FLANGE ENDS, 300PSI



PART#	SIZE	CASE	WEIGHT	
9610F25	2-1/2"	25	46.2	---
9610F3	3"	16	62.7	---
9610F4	4"	16	74.8	---
9610F6	6"	9	103.9	---
9610F8	8"	6	190.9	---
9610F10	10"	2	291.8	---
9610F12	12"	2	409.8	---

NO TAP

PART#	SIZE	CASE	WEIGHT	
9610NYCF25	2-1/2"	25	46.2	---
9610NYCF3	3"	32	62.7	---
9610NYCF4	4"	64	74.8	---
9610NYCF6	6"	54	103.9	---
9610NYCF8	8"	36	190.9	---
9610NYCF10	10"	12	291.8	---
9610NYCF12	12"	12	409.8	---

COMPLIES WITH NEW YORK AND CHICAGO REQUIREMENTS.

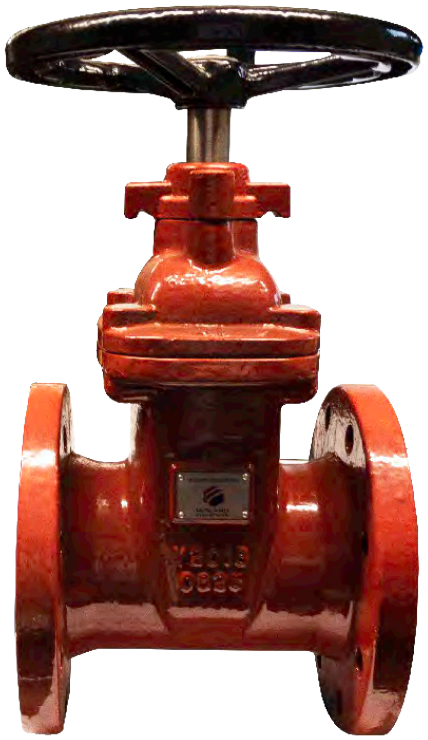
	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsulated	A536 65-45-12
3	Wedge Nut	Stainless Steel	A276 Type 304SS
4	Pin	Stainless Steel	A276 Type 420SS
5	O-Ring	Rubber	D2000 NBR
6	Gasket	Rubber	D2000 NBR
7	Stem	Stainless Steel	A276 Type 304SS
8	Bonnet	Ductile Iron	A536 65-45-12
9	Packing	Graphite	
10	Gland	Ductile Iron	A536 65-45-12
11	Yoke Nut	Bronze	B148 C95200
12	Washer	Brass	
13	Handwheel	Ductile Iron	A536 65-45-12
14	Handwheel Nut	Ductile Iron	A536 65-45-12
15	Bolts	Stainless Steel	A276 Type 304SS
16	Nuts	Stainless Steel	A276 Type 316SS
17	Washers	Stainless Steel	A276 Type 304SS

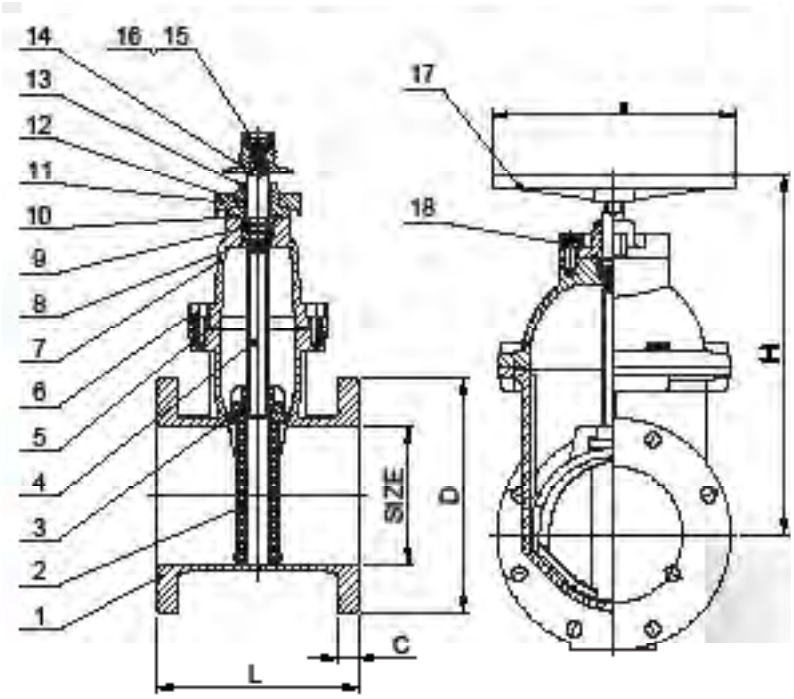
MAIN DIMENSIONS

Size	2.5"	3"	4"	6"	8"	10"	12"
L	7-1/2"	8"	9"	10-1/2"	11-1/2"	13"	14"
H (Open)	16-5/8"	18-7/8"	21-5/8"	29-1/8"	36-5/8"	44-1/2"	52"
H (Close)	13-3/4"	15-3/4"	17-3/4"	23-1/4"	28-3/4"	34-3/4"	40-1/6"
D	7-1/4"	10"	10"	12"	14"	17-1/2"	17-1/2"

DUCTILE IRON GATE VALVES
VALVES

NRS RESILIENT SEATED GATE VALVE
FLANGE ENDS, 300PSI



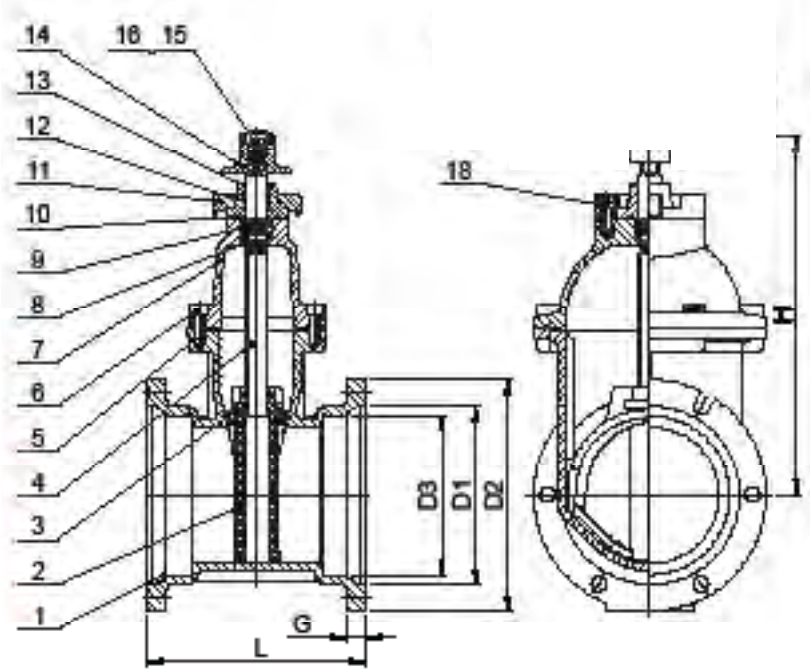


PART#	SIZE	CASE	WEIGHT	
9600FL25	2-1/2"	25	37.6	---
9600FL3	3"	16	54.2	---
9600FL4	4"	16	65.5	---
9600FL6	6"	9	107.5	---
9600FL8	8"	6	181.9	---
9600FL10	10"	2	297.4	---
9600FL12	12"	2	431.4	---

Item	Descript.	Material	ASTM Spec.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsulated	A536 65-45-12
3	Wedge Nut	Bronze	B148 C95200
4	Stem	Stainless Steel	A276 Type 304SS
5	Gasket	Rubber	D2000 NBR
6	Bolts	Stainless Steel	A276 Type 304SS
7	Bonnet	Ductile Iron	A536 65-45-12
8	O-Ring	Rubber	D2000 NBR
9	Thrust Collar	Bronze	B148 C95200
10	O-Ring	Rubber	D2000 NBR
11	Gland	Ductile Iron	A536 65-45-12
12	O-Ring	Rubber	D2000 NBR
13	Dust Ring	Rubber	D2000 NBR

MAIN DIMENSIONS							
Size	2.5"	3"	4"	6"	8"	10"	12"
L	7-1/2"	8.0"	9.0"	10-1/2"	11-1/2"	13.0"	14.0"

AWWA C515-15 NRS RESILIENT SEATED GATE VALVE
MJ × MJ ENDS, 300PSI



PART#	SIZE	WEIGHT	CASE	
9600MJ3	3"	54.2	16	---
9600MJ4	4"	65.5	16	---
9600MJ6	6"	107.5	9	---
9600MJ8	8"	181.9	6	---
9600MJ10	10"	297.4	2	---
9600MJ12	12"	431.4	2	---

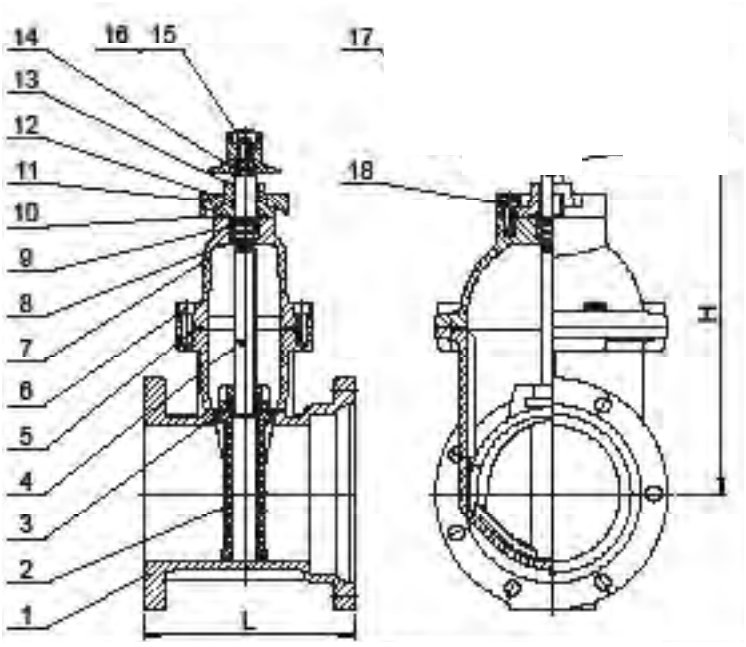
*STANDARD CONFIG IS OP NUT ONLY
*MJ=MECHANICAL JOINT

Item	Descrip.	Material	ASTM Spec.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsu-lated	A536 65-45-12
3	Wedge Nut	Bronze	B148 C95200
4	Stem	Stainless Steel	A276 Type 304SS
5	Gasket	Rubber	D2000 NBR
6	Bolts	Stainless Steel	A276 Type 304SS
7	Bonnet	Ductile Iron	A536 65-45-12
8	O-Ring	Rubber	D2000 NBR
9	Thrust Collar	Bronze	B148 C95200
10	O-Ring	Rubber	D2000 NBR
11	Gland	Ductile Iron	A536 65-45-12
12	O-Ring	Rubber	D2000 NBR
13	Dust Ring	Rubber	D2000 NBR

MAIN DIMENSIONS						
Size	3"	4"	6"	8"	10"	12"
L	11.5"	12.5"	14.8"	15.0"	13.0"	14.0"
H	16.4"	20.7"	24.5"	28.0"	24.5"	28.0"

DUCTILE IRON GATE VALVES
VALVES

NRS RESILIENT SEATED GATE VALVE
FL × MJ ENDS, 300PSI



PART#	SIZE	WEIGHT	CASE	
9600FJ3	3"	54.3	16	---
9600FJ4	4"	65.5	16	---
9600FJ6	6"	107.5	9	---
9600FJ8	8"	181.9	6	---
9600FJ10	10"	297.4	2	---
9600FJ12	12"	431.4	2	---

*STANDARD CONFIG IS OP NUT ONLY
*MJ=MECHANICAL JOINT

Item	Description	Material	ASTM Spec.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encap-sulated	A536 65-45-12
3	Wedge Nut	Bronze	B148 C95200
4	Stem	Stainless Steel	A276 Type 304SS
5	Gasket	Rubber	D2000 NBR
6	Bolts	Stainless Steel	A276 Type 304SS
7	Bonnet	Ductile Iron	A536 65-45-12
8	O-Ring	Rubber	D2000 NBR
9	Thrust Collar	Bronze	B148 C95200
10	O-Ring	Rubber	D2000 NBR
11	Gland	Ductile Iron	A536 65-45-12
12	O-Ring	Rubber	D2000 NBR
13	Dust Ring	Rubber	D2000 NBR

MAIN DIMENSIONS

Size	3"	4"	6"	8"	10"	12"	10"	12"
L	8.8"	9.5"	11.0"	12.0"	14.0"	14.5"	13"	14"
H	11.0"	11.8"	16.4"	20.7"	24.5"	28.0"	44-1/2"	52"
D	10.0"	10.0"	12.0"	14.0"	16.0"	16.0"	34-3/4"	40-1/6"

NIPPLES & FITTINGS

BRASS & BRONZE

Brass Nipples - Sch 40
C/P Brass Nipples
Bronze Fittings
Lead Free Bronze Fittings
C/P Fittings
Bronze Cleanout Plugs
Bronze Drop Ear Elbows
Bronze Barbs for PL. Pipe
Steel Barbs for PL. Pipe
Lead Free Bronze Barbs for PL. Pipe
Stainless Steel Barbs for PL. Pipe
Stainless Steel Well Couplings
Stainless Steel Merchant Couplings

Single Run
Nipple Assortments
STAINLESS STEEL

Stainless Nipples
150# Cast SS Fittings

BLACK & GALVANIZED

Sch. 40 Welded Steel Nipples
Sch. 80 Seamless Steel nipple
Sch. XXS Seamless Steel Nipple
Groove Nipples
Merchant Couplings
API Line Couplings
Malleable Fittings
Steel Fittings
300# Malleable
Bull Plugs and Swages
Forged Steel Fanges
Companion Flanges
Blind Flanges
Copper Fittings

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

BRASS NIPPLES

We hereby certify that to the best of our knowledge and belief the CDA 230 alloy seamless Red Brass Pipe from which our nipples are produced meet the requirements of ASTM Specifications B43 and is free of mercury contamination. The chemical analysis is 85% copper, 15% Zinc and conforms to federal Specifications WWN-351. Our brass nipples meet ANSI/ASTM B687-96 and MS51846 for standard brass nipples, and MS51872 for extra heavy brass nipples.

Threads: Nipples are threaded with American Standard taper pipe threads (NPT) in accordance with screw-thread standard for Federal Services Handbook H-58. ANSI B1.20.1

This product is certified by NSF to NSF/ANSI 61 for use in drinking water supplies of pH 6.5 and above.

- ASTM B43
- ANSI B1.20.1, WW-N-351
- ANSI/ ASTM B687-96
- NSF-61 Approved
- MS51846 STD Brass Nipples
- RoHS compliant

STANDARD RED BRASS 85%
PIPE WITH THREADED ENDS SPECIFICATIONS:

Pipe Size in Inches	Dimension in Inches		
	O.D.	I.D.	Wall Thickness
1/8"	.405	.281	.062
1/4"	.540	.376	.082
3/8"	.675	.495	.090
1/2"	.840	.626	.107
3/4"	1.050	.822	.114
1"	1.315	1.063	.126
1-1/4"	1.660	1.368	.146
1-1/2"	1.900	1.600	.150
2"	2.375	2.063	.156
2-1/2"	2.875	2.501	.187
3"	3.500	3.062	.219
3-1/2"	4.000	3.500	.250
4"	4.500	4.000	.250
4-1/2"	5.000	4.500	.250
5"	5.563	5.063	.250
6"	6.625	6.125	.250

Allowable Pressure POUNDS PER SQUARE INCH				
Standard Size (Inches)	@ 100° F	@ 200° F	@ 300° F	@ 400° F
1/8"	370	370	320	140
1/4"	870	870	760	330
3/8"	890	890	780	340
1/2"	900	900	790	340
3/4"	810	810	710	310
1"	630	630	560	240
1-1/4"	690	690	610	260
1-1/2"	630	630	560	240
2"	540	540	480	210
2-1/2"	450	450	390	170
3"	510	510	450	190
3-1/2"	570	570	500	220
4"	510	510	440	190
5"	410	410	360	160
6"	340	340	300	130

No-Lead 125LB seamless Threaded Red Brass Nipples - 2200

LEAD FREE

LEAD FREE

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

113RB

LEAD FREE

1/8" - 27

1/8" DIAMETER SCH 40 SEAMLESS

MIDLAND	AMC	CHAMPION	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40001	80300-02	112RB-A	Close (3/4")	25/400	0.02	---
40002	80300-0215	113RB-A15	x 1-1/2"	25/400	0.03	---
40003	80300-0220	113RB-A2	x 2"	25/400	0.04	---
40004	80300-0225	113RB-A25	x 2-1/2"	25/400	0.05	---
40005	80300-0230	113RB-A3	x 3"	25/400	0.06	---
40006	80300-0235	113RB-A35	x 3-1/2"	25/400	0.07	---
40007	80300-0240	113RB-A4	x 4"	25/400	0.08	---
40008	80300-0245	113RB-A45	x 4-1/2"	25/400	0.10	---
40009	80300-0250	113RB-A5	x 5"	25/400	0.11	---
40010	80300-0255	113RB-A55	x 5-1/2"	25/400	0.12	---
40011	80300-0260	113RB-A6	x 6"	25/400	0.13	---
40012	80300-0270	113RB-A7	x 7"	25/400	0.15	---
40013	80300-0280	113RB-A8	x 8"	25/400	0.17	---
40014	80300-0290	113RB-A9	x 9"	25/400	0.19	---
40015	80300-0292	113RB-A10	x 10"	25/400	0.21	---
40016	80300-0294	113RB-A11	x 11"			---
40017	80300-0296	113RB-A12	x 12"	25/400	0.25	---
40018			x 14"	1/1	0.29	---
40019			x 16"	1/1	0.34	---

LEAD FREE

1/4"-18

1/4" DIAMETER SCH 40 SEAMLESS

MIDLAND	AMC	CHAMPION	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40020	80300-04	112RB-B	Close (7/8")	25/400	0.03	---
40021	80300-0415	113RB-B15	x 1-1/2"	25/400	0.05	---
40022	80300-0420	113RB-B2	x 2"	25/400	0.07	---
40023	80300-0425	113RB-B25	x 2-1/2"	25/400	0.09	---
40024	80300-0430	113RB-B3	x 3"	25/400	0.11	---
40025	80300-0435	113RB-B35	x 3-1/2"	25/400	0.13	---
40026	80300-0440	113RB-B4	x 4"	25/400	0.14	---
40027	80300-0445	113RB-B45	x 4-1/2"	25/400	0.16	---
40028	80300-0450	113RB-B5	x 5"	25/400	0.18	---
40029	80300-0455	113RB-B55	x 5-1/2"	25/400	0.20	---
40030	80300-0460	113RB-B6	x 6"	25/400	0.22	---
40031	80300-0470	113RB-B7	x 7"	25/200	0.25	---
40032	80300-0480	113RB-B8	x 8"	25/200	0.29	---
40033	80300-0490	113RB-B9	x 9"	25/200	0.33	---
40034	80300-0492	113RB-B10	x 10"	25/200	0.36	---
40035	80300-0494	113RB-B11	x 11"	25/200	0.40	---
40036	80300-0496	113RB-B12	x 12"	25/200	0.43	---

See page pipe fittings for Yellow Brass Nipples

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

SCH 40 SEAMLESS

NIPPLES AND FITTINGS

LEAD FREE

3/8"-18

3/8" DIAMETER SCH 40 SEAMLESS

MIDLAND	AMC	CHAMPION	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40040	80300-06	112RB-C	Close (1")	25/400	0.05	---
40041	80300-0615	113RB-C15	x 1-1/2"	25/400	0.08	---
40042	80300-0620	113RB-C2	x 2"	25/400	0.10	---
40043	80300-0625	113RB-C25	x 2-1/2"	25/400	0.13	---
40044	80300-0630	113RB-C3	x 3"	25/400	0.16	---
40045	80300-0635	113RB-C35	x 3-1/2"	25/400	0.18	---
40046	80300-0640	113RB-C4	x 4"	25/400	0.21	---
40047	80300-0645	113RB-C45	x 4-1/2"	25/300	0.23	---
40048	80300-0650	113RB-C5	x 5"	25/300	0.26	---
40049	80300-0655	113RB-C55	x 5-1/2"	25/300	0.29	---
40050	80300-0660	113RB-C6	x 6"	25/300	0.31	---
40051	80300-0670	113RB-C7	x 7"	25/200	0.36	---
40052	80300-0680	113RB-C8	x 8"	25/150	0.42	---
40053	80300-0690	113RB-C9	x 9"	25/150	0.47	---
40054	80300-0692	113RB-C10	x 10"	25/100	0.52	---
40055	80300-0694	113RB-C11	x 11"	25/100	0.57	---
40056	80300-0696	113RB-C12	x 12"	25/100	0.62	---

113RB

LEAD FREE

1/2" - 14

1/2" DIAMETER SCH 40 SEAMLESS

MIDLAND	AMC	CHAMPION	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40060	80300-08	112RB-D	Close (1-1/8")	25/400	0.09	---
40061	80300-0815	113RB-D15	x 1-1/2"	25/400	0.12	---
40062	80300-0820	113RB-D2	x 2"	25/400	0.16	---
40063	80300-0825	113RB-D25	x 2-1/2"	25/300	0.20	---
40064	80300-0830	113RB-D3	x 3"	25/300	0.23	---
40065	80300-0835	113RB-D35	x 3-1/2"	25/300	0.27	---
40066	80300-0840	113RB-D4	x 4"	25/200	0.31	---
40067	80300-0845	113RB-D45	x 4-1/2"	25/200	0.35	---
40068	80300-0850	113RB-D5	x 5"	25/200	0.39	---
40069	80300-0855	113RB-D55	x 5-1/2"	25/200	0.43	---
40070	80300-0860	113RB-D6	x 6"	25/200	0.47	---
40071	80300-0870	113RB-D7	x 7"	25/100	0.55	---
40072	80300-0880	113RB-D8	x 8"	25/100	0.62	---
40073	80300-0890	113RB-D9	x 9"	25/100	0.70	---
40074	80300-0892	113RB-D10	x 10"	25/75	0.78	---
40075	80300-0894	113RB-D11	x 11"	25/75	0.86	---
40076	80300-0896	113RB-D12	x 12"	25/75	0.94	---
40079			x 24"			
40245			x 36"			

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

LEAD FREE

3/4" - 14

3/4" DIAMETER SCH 40 SEAMLESS

MIDLAND	AMC	CHAMPION	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40080	80300-12	112RB-E	Close (1- 3/8")	25/400	0.15	---
40081	80300-1215	113RB-E15	x 1-1/2"	25/400	0.16	---
40082	80300-1220	113RB-E2	x 2"	25/300	0.21	---
40083	80300-1225	113RB-E25	x 2-1/2"	25/300	0.27	---
40084	80300-1230	113RB-E3	x 3"	25/200	0.32	---
40085	80300-1235	113RB-E35	x 3-1/2"	25/200	0.37	---
40086	80300-1240	113RB-E4	x 4"	25/150	0.43	---
40087	80300-1245	113RB-E45	x 4-1/2"	25/150	0.48	---
40088	80300-1250	113RB-E5	x 5"	25/100	0.53	---
40089	80300-1255	113RB-E55	x 5-1/2"	25/100	0.59	---
40090	80300-1260	113RB-E6	x 6"	25/100	0.64	---
40091	80300-1270	113RB-E7	x 7"	25/75	0.75	---
40092	80300-1280	113RB-E8	x 8"	25/75	0.85	---
40093	80300-1290	113RB-E9	x 9"	25/75	0.96	---
40094	80300-1292	113RB-E10	x 10"	25/50	1.06	---
40095	80300-1294	113RB-E11	x 11"	25/50	1.17	---
40096	80300-1296	113RB-E12	x 12"	25/50	1.28	---
40097	80300-129918		x 18"	1/1	1.92	---
40098	80300-129924		x 24"	1/1	2.56	---

113RB

LEAD FREE

1" - 11 1/2

1" DIAMETER SCH 40 SEAMLESS

MIDLAND	AMC	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40100	80300-16	Close (1-1/2")	25/200	0.23	---
40101	80300-1620	x 2"	25/200	0.30	---
40102	80300-1625	x 2-1/2"	25/150	0.38	---
40103	80300-1630	x 3"	25/150	0.45	---
40104	80300-1635	x 3-1/2"	25/100	0.53	---
40105	80300-1640	x 4"	25/100	0.60	---
40106	80300-1645	x 4-1/2"	25/100	0.68	---
40107	80300-1650	x 5"	25/75	0.75	---
40108	80300-1655	x 5-1/2"	25/75	0.83	---
40109	80300-1660	x 6"	25/50	0.94	---
40110	80300-1670	x 7"	25/50	1.05	---
40111	80300-1680	x 8"	25/50	1.20	---
40112	80300-1690	x 9"	25/50	1.35	---
40113	80300-1692	x 10"	25/50	1.50	---
40114	80300-1694	x 11"	25/50	1.65	---
40115	80300-1696	x 12"	20/40	1.80	---
40118		x 18"			
40119		x 24"			

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

SCH 40 SEAMLESS

NIPPLES AND FITTINGS

LEAD FREE

1 1/4" - 11 1/2

1-1/4" DIAMETER SCH 40 SEAMLESS

MIDLAND	AMC	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40120	80300-20	Close (1-5/8")	25/100	0.36	---
40121	80300-2020	x 2"	25/100	0.44	---
40122	80300-2025	x 2-1/2"	25/100	0.56	---
40123	80300-2030	x 3"	25/100	0.67	---
40124	80300-2035	x 3-1/2"	25/100	0.78	---
40125	80300-2040	x 4"	25/50	0.89	---
40126	80300-2045	x 4-1/2"	25/50	1.00	---
40127	80300-2050	x 5"	25/50	1.11	---
40128	80300-2055	x 5-1/2"	25/50	1.22	---
40129	80300-2060	x 6"	25/50	1.33	---
40130	80300-2070	x 7"	25/50	1.56	---
40131	80300-2080	x 8"	25/50	1.78	---
40132	80300-2090	x 9"	25/50	2.00	---
40133	80300-2092	x 10"	25/50	2.22	---
40134	80300-2094	x 11"	25/50	2.45	---
40135	80300-2096	x 12"	25/50	2.67	---
40136	80300-209918	x 18"	1/1	4.00	---

113RB

LEAD FREE

1-1/2" - 11 1/2

1-1/2" DIAMETER SCH 40 SEAMLESS

MIDLAND	AMC	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40140	80300-24	Close (1-3/4")	25/100	0.46	---
40141	80300-2420	x 2"	25/100	0.53	---
40142	80300-2425	x 2-1/2"	25/50	0.66	---
40143	80300-2430	x 3"	25/50	0.79	---
40144	80300-2435	x 3-1/2"	25/50	0.93	---
40145	80300-2440	x 4"	25/50	1.06	---
40146	80300-2445	x 4-1/2"	25/50	1.19	---
40147	80300-2450	x 5"	20/40	1.32	---
40148	80300-2455	x 5-1/2"	20/40	1.46	---
40149	80300-2460	x 6"	20/40	1.59	---
40150	80300-2470	x 7"	20/40	1.85	---
40151	80300-2480	x 8"	20/40	2.12	---
40152	80300-2490	x 9"	20/40	2.38	---
40153	80300-2492	x 10"	20/40	2.65	---
40154	80300-2494	x 11"	1/40	2.91	---
40155	80300-2496	x 12"	1/15	3.18	---
40156	80300-249918	x 18"	1/1	4.77	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

LEAD FREE

2" - 11 1/2

2" DIAMETER SCH 40 SEAMLESS

MIDLAND	AMC	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40160	80300-32	Close (2")	25/50	0.69	---
40161	80300-3225	x 2-1/2"	25/50	0.86	---
40162	80300-3230	x 3"	25/50	1.03	---
40163	80300-3235	x 3-1/2"	25/50	1.20	---
40164	80300-3240	x 4"	1/25	1.37	---
40165	80300-3245	x 4-1/2"	1/25	1.54	---
40166	80300-3250	x 5"	1/25	1.72	---
40167	80300-3255	x 5-1/2"	1/25	1.89	---
40168	80300-3260	x 6"	1/25	2.06	---
40169	80300-3270	x 7"	1/20	2.40	---
40170	80300-3280	x 8"	1/18	2.74	---
40171	80300-3290	x 9"	1/18	3.09	---
40172	80300-3292	x 10"	1/18	3.43	---
40173	80300-3294	x 11"	1/18	3.77	---
40174	80300-3296	x 12"	1/14	4.12	---
40175	80300-329918	x 18"	1/1	6.18	---
40176	80300-329924	x 24"	1/1	8.24	---
40178	80300-329936	x 36"	1/1	12.36	---
40179	80300-329948	x 48"	1/1	16.48	---

113RB

LEAD FREE

2 1/2" - 8

2-1/2" DIAMETER SCH 40 SEAMLESS

MIDLAND	AMC	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40180	80300-40	Close (2-1/2")	1/36	1.26	---
40181	80300-4030	x 3"	1/36	1.51	---
40182	80300-4035	x 3-1/2"	1/30	1.76	---
40183	80300-4040	x 4"	1/30	2.02	---
40184	80300-4045	x 4-1/2"	1/30	2.27	---
40185	80300-4050	x 5"	1/20	2.52	---
40186	80300-4055	x 5-1/2"	1/20	2.77	---
40187	80300-4060	x 6"	1/20	3.03	---
40193		x 12"			

See our Valve section for 2-1/2, 3 and 4" Valves

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

SCH 40 SEAMLESS
NIPPLES AND FITTINGS

LEAD FREE

3" DIAMETER SCH 40 SEAMLESS

MIDLAND	AMC	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40200	80300-48	Close (2-5/8")	1/24	1.89	---
40201	80300-4830	x 3"	1/20	2.16	---
40202	80300-4835	x 3-1/2"	1/18	2.52	---
40203	80300-4840	x 4"	1/18	2.88	---
40204	80300-4845	x 4-1/2"	1/18	3.24	---
40205	80300-4850	x 5"	1/18	3.60	---
40206	80300-4855	x 5-1/2"	1/18	3.96	---
40207	80300-4860	x 6"	1/12	4.32	---
40209	80300-4880	x 8"	1/1	5.76	---
40213	80300-4896	x 12"	1/1		---

113RB

LEAD FREE

4" DIAMETER SCH 40 SEAMLESS

MIDLAND	AMC	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40220	80300-64	Close (2-7/8)	1/20	2.40	---
40221	80300-6430	x 3"	1/10	2.72	---
40222	80300-6435	x 3-1/2"	1/10	3.18	---
40223	80300-6440	x 4"	1/10	3.71	---
40224	80300-6445	x 4-1/2"	1/5	4.24	---
40225	80300-6450	x 5"	1/5	4.77	---
40226	80300-6455	x 5-1/2"	1/5	5.30	---
40234	80300-6460	x 6"	1/5	6.36	---

LEAD FREE

6" DIAMETER SCH 40 SEAMLESS

MIDLAND	AMC	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40254		Close	1/1	4.94	---
40256		x 4"	1/1	6.54	---
40259		x 4-1/2"	1/1	7.12	---
40260		x 5"	1/1	7.91	---
40261		x 6"	1/1	9.49	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

113CP

LEAD FREE

3/8" DIAMETER CHROME PLATED

MIDLAND	AMC	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
41040	81300-06	X Close	5/25	0.05	---
41041	81300-0615	x 1-1/2"	5/25	0.08	---
41042	81300-0620	x 2"	5/25	0.10	---
41043	81300-0625	x 2-1/2"	5/25	0.13	---
41044	81300-0630	x 3"	5/25	0.16	---
41045	81300-0635	x 3-1/2"	5/25	0.18	---
41046	81300-0640	x 4"	5/25	0.21	---
41047	81300-0645	x 4-1/2"	5/25	0.23	---
41048	81300-0650	x 5"	5/25	0.26	---
41049	81300-0655	x 5-1/2"	5/25	0.29	---
41050	81300-0660	x 6"	5/25	0.31	---
41054	81300-0692	x 10"	1/1	0.52	
41056	81300-0696	x 12"	1/1	0.62	

LEAD FREE

1/2" DIAMETER CHROME PLATED

MIDLAND	AMC	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
41060	81300-08	X Close	5/25	0.09	---
41061	81300-0815	x 1-1/2"	5/25	0.12	---
41062	81300-0820	x 2"	5/25	0.16	---
41063	81300-0825	x 2-1/2"	5/25	0.20	---
41064	81300-0830	x 3"	5/25	0.23	---
41065	81300-0835	x 3-1/2"	5/25	0.27	---
41066	81300-0840	x 4"	5/25	0.31	---
41067	81300-0845	x 4-1/2"	5/25	0.35	---
41068	81300-0850	x 5"	5/25	0.39	---
41069	81300-0855	x 5-1/2"	5/25	0.43	---
41070	81300-0860	x 6"	5/25	0.47	---
41074	81300-0892	x 10"	1/1	0.78	---
41075		x 11"	1/1	0.86	
41076	81300-0896	x 12"	1/1	0.94	
41077		x 18"	1/1	1.41	
41079		x 24"	1/1	1.88	
41244		x 36"	1/1	2.82	
41245		x 48"	1/1	3.76	

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

CHROME PLATED
NIPPLES AND FITTINGS

LEAD FREE

81300-12

3/4" DIAMETER CHROME PLATED

MIDLAND	AMC	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
41080	81300-12	Close (1- 3/8")	25/400	0.15	
41081	81300-1215	x 1-1/2"	25/400	0.16	---
41082	81300-1220	x 2"	25/300	0.21	---
41083	81300-1225	x 2-1/2"	25/300	0.27	---
41084	81300-1230	x 3"	25/200	0.32	---
41085	81300-1235	x 3-1/2"	25/200	0.37	---
41086	81300-1240	x 4"	25/150	0.43	---
41087	81300-1245	x 4-1/2"	25/150	0.48	---
41088	81300-1250	x 5"	25/100	0.53	---
41089	81300-1255	x 5-1/2"	25/100	0.59	---
41090	81300-1260	x 6"	25/100	0.64	---

LEAD FREE

81300-16

1" DIAMETER CHROME PLATED

MIDLAND	AMC	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
41100	81300-16	Close (1-1/2")	25/200	0.23	---
41101	81300-1620	x 2"	25/200	0.30	---
41102	81300-1625	x 2-1/2"	25/150	0.38	---
41103	81300-1630	x 3"	25/150	0.45	---
41104	81300-1635	x 3-1/2"	25/100	0.53	---
41105	81300-1640	x 4"	25/100	0.60	---
41106	81300-1645	x 4-1/2"	25/100	0.68	---
41107	81300-1650	x 5"	25/75	0.75	---
41108	81300-1655	x 5-1/2"	25/75	0.83	---
41109	81300-1660	x 6"	25/50	0.94	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

BRONZE FITTINGS

UL842, UL258, UL125,FM

Class 125 (150) For steam, water, gas, oil and air service

Standard specifications

- UL/ FM Approved
- 1S0 9001:2000
- Not Lead Free
- RoHS Compliant

Materials - ASTM B62-93 (85,5,5,5) C83600
Dimensions - ANSI B 16.15
Threads - ANSI B2.1 or BA 21 and Fed. WW-P-460C, MSS-SP-106, ANSI/ASME B1.20.1

Bronze threaded fittings are manufactured from smooth-cored castings, designed to provide full flow with minimum restriction. All threads are accurately machined and gauged to ensure a perfect fit with the pipe. All fittings are individually tested under water to ensure quality. Bronze provides a tighter seal and is easier to install than other metals. Can be used for water, plumbing, heating, pneumatic and marine applications, able to resist the harmful effects of corrosion when coming into contact with salt water or fresh water polluted with mineral acids or peaty soils.

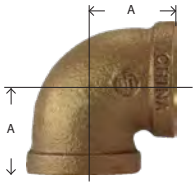
LEAD FREE BRASS FITTINGS

- Approved to ANSI/NSF 61-4 California AB 1953
- Meets Federal State Drinking Water Act, Lead Free Requirement
- Brass fittings conform to AWWA C800
- Brass castings conform to ASTM B584, UNS Alloy C8933
- Brass fittings dimensions conform to ASME B16.15
- NPT threads on all fittings conform to ASME B1.20.1
- Brass unions conform to specification A-A-59617
- Manufacturing facilities are ISO 9001:2008

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



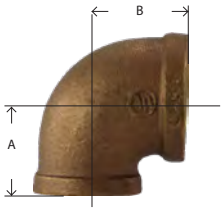
100RB

738100

LEAD FREE

90° ELBOWS

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44100	38100-02	---	50/600	1/8″	44100LF	738100-02	---
44101	38100-04	---	35/420	1/4″	44101LF	738100-04	---
44102	38100-06	---	90/360	3/8″	44102LF	738100-06	---
44103	38100-08	---	50/200	1/2″	44103LF	738100-08	---
44104	38100-12	---	35/105	3/4″	44104LF	738100-12	---
44105	38100-16	---	20/60	1″	44105LF	738100-16	---
44106	38100-20	---	20/40	1-1/4″	44106LF	738100-20	---
44107	38100-24	---	15/30	1-1/2″	44107LF	738100-24	---
44108	38100-32	---	8/16	2″	44108LF	738100-32	---
44109	38100-40	---	1/12	2-1/2″	44109LF	738100-40	
44110	38100-48	---	1/4	3″	44110LF	738100-48	---
44112	38100-64	---	1/2	4″	44112LF	738100-64	



100RRB

738105

LEAD FREE

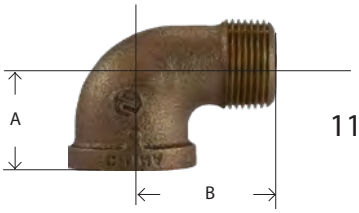
90° REDUCING ELBOWS

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44120	38105-0402	---		1/4 x 1/8	44120LF	738105-0402	---
				3/8 x 1/8	44121LF	738105-0602	---
44122	38105-0604	---		3/8 x 1/4	44122LF	738105-0604	
44123	38105-0804	---	60/240	1/2 x 1/4	44123LF	738105-0804	---
44124	38105-0806	---	60/240	1/2 x 3/8	44124LF	738105-0806	---
44125	38105-1204	---	40/160	3/4 x 1/4	44125LF	738105-1204	---
				3/4 x 3/8	44126LF	738105-1206	---
44127	38105-1208	---		3/4 x 1/2	44127LF	738105-1208	---
				1 x 1/4	44128LF	738105-1604	---
				1 x 3/8	44129LF		---
				1 x 1/2	44130LF	738105-1608	---
44131	38105-1612	---	50/100	1 x 3/4	44131LF	738105-1612	---
				1 1/4 x 1/2	44132LF		---
				1 1/4 x 3/4	44133LF	738105-2012	---
44134	38105-2016	---	25/50	1 1/4 x 1	44134LF	738105-2016	---
				1 1/2 x 1/2	44135LF	738105-2408	---
				1 1/2 x 3/4	44136LF	738105-2412	---
44137	38105-2416	---	10/40	1 1/2 x 1	44137LF	738105-2416	---
				1 1/2 x 1 1/4	44138LF	738105-2420	---
44140	38105-3216	---		2 x 1	44140LF	738105-3216	---
				2 x 1 1/4	44141LF	738105-3220	---
				2 x 1 1/2	44142LF	738105-3224	---
				2 1/2 x 2	44146LF	738105-4032	---
				3 x 2	44150LF	738105-4832	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



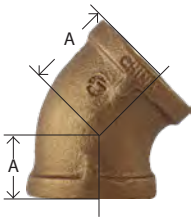
116RB

738116

LEAD FREE

90° STREET ELLS

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44160	38116-02	---	60/720	1/8″	44160LF	738116-02	---
44161	38116-04	---	35/420	1/4″	44161LF	738116-04	---
44162	38116-06	---	60/240	3/8″	44162LF	738116-06	---
44163	38116-08	---	60/180	1/2″	44163LF	738116-08	---
44164	38116-12	---	35/105	3/4″	44164LF	738116-12	---
44165	38116-16	---	45/90	1″	44165LF	738116-16	---
44166	38116-20	---	25/50	1-1/4″	44166LF	738116-20	---
44167	38116-24	---	9/27	1-1/2″	44167LF	738116-24	---
44168	38116-32	---	8/16	2″	44168LF	738116-32	---
44169	38116-40	---	5/10	2-1/2″	44169LF	738116-40	---
44170	38116-48	---	1/8	3″	44170LF	738116-48	---



10045RB

738107

LEAD FREE

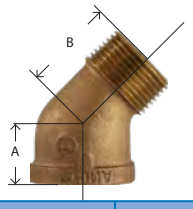
45° ELBOWS

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44180	38107-02	---	50/600	1/8″	44180LF	738107-02	---
44181	38107-04	---	30/360	1/4″	44181LF	738107-04	---
44182	38107-06	---	75/300	3/8″	44182LF	738107-06	---
44183	38107-08	---	50/200	1/2″	44183LF	738107-08	---
44184	38107-12	---	40/120	3/4″	44184LF	738107-12	---
44185	38107-16	---	20/60	1″	44185LF	738107-16	---
44186	38107-20	---	20/40	1-1/4″	44186LF	738107-20	---
44187	38107-24	---	10/30	1-1/2″	44187LF	738107-24	---
44188	38107-32	---	12/24	2″	44188LF	738107-32	---
44189	38107-40	---	1/12	2-1/2"	44189LF	738107-40	---
44190	38107-48	---	1/10	3"	44190LF	738107-48	---
				4"	44191LF	738107-64	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



124RB

738124 LEAD FREE

45° STREET ELBOWS

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44200	38124-02	---	70/840	1/8″			
44201	38124-04	---	100/400	1/4″	44201LF	738124-04	---
44202	38124-06	---	100/400	3/8″	44202LF	738124-06	---
44203	38124-08	---	75/225	1/2″	44203LF	738124-08	---
44204	38124-12	---	40/120	3/4″	44204LF	738124-12	---
44205	38124-16	---	25/75	1″	44205LF	738124-16	---
44206	38124-20	---	10/40	1-1/4″	44206LF	738124-20	---
44207	38124-24	---	10/30	1-1/2″	44207LF	738124-24	---
44208	38124-32	---	12/24	2″	44208LF	738124-32	---

102RB

738102 LEAD FREE

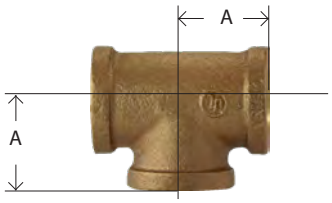
CROSSES

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44391	38102-04	---	60/240	1/4″	44391LF	738102-04	---
44392	38102-06	---	50/150	3/8″	44392LF	738102-06	---
44393	38102-08	---	30/90	1/2″	44393LF	738102-08	---
44394	38102-12	---	20/60	3/4″	44394LF	738102-12	---
44395	38102-16	---	15/30	1″	44395LF	738102-16	---
44396	38102-20	---	10/20	1-1/4″	44396LF	738102-20	---
44397	38102-24	---	8/16	1-1/2″	44397LF	738102-24	---
44398		---	5/10	2″	44398LF	738102-32	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



101RB

TEES

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44250	38101-02	---	120/480	1/8″	44250LF	738101-02	---
44251	38101-04	---	75/300	1/4″	44251LF	738101-04	---
44252	38101-06	---	45/180	3/8″	44252LF	738101-06	---
44253	38101-08	---	40/120	1/2″	44253LF	738101-08	---
44254	38101-12	---	35/70	3/4″	44254LF	738101-12	---
44255	38101-16	---	20/40	1″	44255LF	738101-16	---
44256	38101-20	---	14/28	1-1/4″	44256LF	738101-20	---
44257	38101-24	---	12/24	1-1/2″	44257LF	738101-24	---
44258	38101-32	---	8/16	2″	44258LF	738101-32	---
44259	38101-40	---	1/6	2-1/2″	44259LF	738101-40	---
44260	38101-48	---	1/6	3″	44260LF	738101-48	---
				4"	44261LF	738101-64	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
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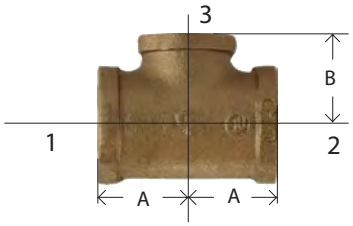
BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



101RRB

738106 LEAD FREE

REDUCING TEES

REDUCING ON THE BRANCH

MIDLAND	AMC	LIST	BOX/CASE	SIZE 1 X 2 X 3	MIDLAND	AMC	LIST
				1/4 x 1/4 x 1/8	44270LF	738106-040402	---
				3/8 x 3/8 x 1/4	44273LF	738106-060604	---
44276	38106-080804	---	40/160	1/2 x 1/2 x 1/4	44276LF	738106-080804	---
				1/2 x 1/2 x 3/8	44279LF	738106-080806	---
44280	38106-080812	---	40/160	1/2 x 1/2 x 3/4	44280LF	738106-080812	---
44287	38106-120808	---		3/4 x 1/2 x 1/2	44287LF	738106-120808	---
				3/4 x 1/2 x 3/4	44288LF	738106-120812	---
44282	38106-121204	---	25/100	3/4 x 3/4 x 1/4	44282LF	738106-121204	---
44283	38106-121206	---	25/100	3/4 x 3/4 x 3/8	44283LF	738106-121206	
44286	38106-121208	---	20/80	3/4 x 3/4 x 1/2	44286LF	738106-121208	---
				1 x 1/2 x 1/2	44292LF	738106-160808	---
				1 x 1/2 x 3/4	44293LF	738106-160812	---
44296	38106-161212	---		1 x 3/4 x 3/4	44296LF		---
				1 x 1 x 1/4	44268LF	738106-161604	---
				1 x 1 x 3/8	44290LF	738106-161606	---
44291		---	15/60	1 x 1 x 1/2	44291LF	738106-161608	---
44298	38106-161612	---	12/48	1 x 1 x 3/4	44298LF	738106-161612	---
				1 1/4 x 1/2x1 x 1 1/4	44314LF		---
44301	38106-202008	---	20/40	1 1/4 x 1 1/4 x 1/2	44301LF	738106-202008	---
44303	38106-202012	---	20/40	1 1/4 x 1 1/4 x 3/4	44303LF	738106-202012	---
44306	38106-202016	---	20/40	1 1/4 x 1 1/4 x 1	44306LF	738106-202016	---
				1 1/2 x 1 1/2 x 1/2	44315LF		---
				1 1/2 x 1 1/2 x 3/4	44316LF	738106-241212	---
				1 1/2 x 1 1/2 x 1	44318LF		---
				1 1/2 x 1 1/2 x 1 1/4	44322LF		---
				2 x 2 x 1/2	44327LF	738106-323208	---
				2 x 2 x 3/4	44328LF		---
				2 x 2 x 1	44330LF	738106-323216	---
				2 x 2 x 1 1/4	44334LF		---
				2 x 2 x 1 1/2	44336LF	738106-323224	---
				2 1/2 x 2 1/2 x 2	44344LF		---
				3 x 3 x 2	44351LF	738106-484832	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS

103RB

COUPLINGS

738103

LEAD FREE

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44410	38103-02	---	70/840	1/8″	44410LF	738103-02	---
44411	38103-04	---	40/480	1/4″	44411LF	738103-04	---
44412	38103-06	---	40/480	3/8″	44412LF	738103-06	---
44413	38103-08	---	60/240	1/2″	44413LF	738103-08	---
44414	38103-12	---	50/150	3/4″	44414LF	738103-12	---
44415	38103-16	---	25/100	1″	44415LF	738103-16	---
44416	38103-20	---	16/64	1-1/4″	44416LF	738103-20	---
44417	38103-24	---	18/36	1-1/2″	44417LF	738103-24	---
44418	38103-32	---	12/24	2″	44418LF	738103-32	---
44419	38103-40	---	1	2-1/2"	44419LF	738103-40	---
44420	38103-48	---	1	3″	44420LF	738103-48	---
				4"	44421LF	738103-64	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
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BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS

119RB

738119

LEAD FREE

REDUCING COUPLINGS

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44430	38119-0402	---	70/840	1/4" x 1/8"	44430LF	738119-0402	---
44431	38119-0602	---	35/420	3/8" x 1/8"	44431LF	738119-0602	---
44432	38119-0604	---	30/360	3/8" x 1/4"	44432LF	738119-0604	---
44433	38119-0802	---	75/300	1/2" x 1/8"	44433LF		
44434	38119-0804	---	75/300	1/2" x 1/4"	44434LF	738119-0804	---
44435	38119-0806	---	60/240	1/2" x 3/8"	44435LF	738119-0806	---
44436	38119-1204	---	45/180	3/4" x 1/4"	44436LF	738119-1204	---
44437	38119-1206	---	45/180	3/4" x 3/8"	44437LF	738119-1206	---
44438	38119-1208	---	60/180	3/4" x 1/2"	44438LF	738119-1208	---
44440	38119-1606	---	30/120	1" x 3/8"	44440LF		
44441	38119-1608	---	30/120	1" x 1/2"	44441LF	738119-1608	---
44442	38119-1612	---	25/100	1" x 3/4"	44442LF	738119-1612	---
44444	38119-2008	---	25/75	1-1/4" x 1/2"	44444LF	738119-2008	---
44445	38119-2012	---	25/75	1-1/4" x 3/4"	44445LF	738119-2012	---
44446	38119-2016	---	15/60	1-1/4" x 1"	44446LF	738119-2016	---
44447	38119-2408	---	20/60	1-1/2" x 1/2"	44447LF	738119-2408	---
44448	38119-2412	---	15/60	1-1/2" x 3/4"	44448LF	738119-2412	---
44449	38119-2416	---	25/50	1-1/2" x 1"	44449LF	738119-2416	---
44450	38119-2420	---	12/48	1-1/2" x 1-1/4"	44450LF	738119-2420	---
44458	38119-3208	---	12/36	2" x 1/2"	44458LF		
44451	38119-3212	---	12/36	2" x 3/4"	44451LF	738119-3212	---
44452	38119-3216	---	12/36	2" x 1"	44452LF	738119-3216	---
44453	38119-3220	---	9/27	2" x 1-1/4"	44453LF	738119-3220	---
44454	38119-3224	---	9/27	2" x 1-1/2"	44454LF	738119-3224	---
44461	38119-4024	---	1	2-1/2" x 1-1/2"	44461LF		
44462	38119-4032	---	1	2-1/2" x 2"	44462LF	738119-4032	---
44456	38119-4832	---	1	3" x 2"	44456LF		
44463	38119-4840	---	1	3" x 2-1/2"	44463LF		

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BRONZE/ LEAD FREE BRONZE
NIPPLES AND FITTINGS

108RB

738108

LEAD FREE

CAPS

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44470	38108-02	---	80/160	1/8″	44470LF	738108-02	---
44471	38108-04	---	80/960	1/4″	44471LF	738108-04	---
44472	38108-06	---	60/720	3/8″	44472LF	738108-06	---
44473	38108-08	---	75/300	1/2″	44473LF	738108-08	---
44474	38108-12	---	40/160	3/4″	44474LF	738108-12	---
44475	38108-16	---	25/100	1″	44475LF	738108-16	---
44476	38108-20	---	20/80	1-1/4″	44476LF	738108-20	---
44477	38108-24	---	18/54	1-1/2″	44477LF	738108-24	---
44478	38108-32	---	12/36	2″	44478LF	738108-32	---
44479	38108-40	---		2-1/2"	44479LF	738108-40	---
44480	38108-48	---	1	3″	44480LF	738108-48	---
				4"	44481LF	738108-64	---

104RB

738104

LEAD FREE

UNIONS

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44600	38104-02	---	40/160	1/8″	44600LF	738104-02	---
44601	38104-04	---	40/160	1/4″	44601LF	738104-04	---
44602	38104-06	---	40/160	3/8″	44602LF	738104-06	---
44603	38104-08	---	50/100	1/2″	44603LF	738104-08	---
44604	38104-12	---	35/70	3/4″	44604LF	738104-12	---
44605	38104-16	---	20/40	1″	44605LF	738104-16	---
44606	38104-20	---	15/30	1-1/4″	44606LF	738104-20	---
44607	38104-24	---	10/20	1-1/2″	44607LF	738104-24	---
44608	38104-32	---	6/12	2″	44608LF	738104-32	---
44609	38104-40	---	4/8	2-1/2″	44609LF	738104-40	---
44610	38104-48	---	4/8	3″	44610LF	738104-48	---
				4"	44611LF	738104-64	---

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BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS

Hex

110RB

738110

LEAD FREE

HEX BUSHINGS

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44500	38110-0402	---	120/1440	1/4" x 1/8"	44500LF	738110-0402	---
44501	38110-0602	---	75/900	3/8" x 1/8"	44501LF	738110-0602	---
44502	38110-0604	---	75/900	3/8" x 1/4"	44502LF	738110-0604	---
44503	38110-0802	---	150/600	1/2" x 1/8"	44503LF	738110-0802	---
44504	38110-0804	---	150/600	1/2" x 1/4"	44504LF	738110-0804	---
44505	38110-0806	---	150/600	1/2" x 3/8"	44505LF	738110-0806	---
44506	38110-1202	---	75/300	3/4" x 1/8"	44506LF	738110-1202	---
44507	38110-1204	---	75/300	3/4" x 1/4"	44507LF	738110-1204	---
44508	38110-1206	---	75/300	3/4" x 3/8"	44508LF	738110-1206	---
44509	38110-1208	---	75/300	3/4" x 1/2"	44509LF	738110-1208	---
44557	38110-1602	---	50/200	1" x 1/8"			
44510*	38110-1604	---	50/200	1" x 1/4"	44510LF*	738110-1604	---
44511*	38110-1606	---	50/200	1" x 3/8"	44511LF	738110-1606	---
44512	38110-1608	---	50/200	1" x 1/2"	44512LF	738110-1608	---
44513	38110-1612	---	50/200	1" x 3/4"	44513LF	738110-1612	---
44514	38110-2004	---	30/120	1-1/4" x 1/4"	44514LF	738110-2004	
44515	38110-2006	---	30/120	1-1/4" x 3/8"	44515LF	738110-2006	---
44516*	38110-2008	---	30/120	1-1/4" x 1/2"	44516LF*	738110-2008	---
44517	38110-2012	---	30/120	1-1/4" x 3/4"	44517LF	738110-2012	---
44518	38110-2016	---	30/120	1-1/4" x 1"	44518LF	738110-2016	---
44519*	38110-2404	---	25/75	1-1/2" x 1/4"	44519LF	738110-2404	---
44520*	38110-2406	---	25/75	1-1/2" x 3/8"	44520LF	738110-2406	
44521*	38110-2408	---	25/75	1-1/2" x 1/2"	44521LF*	738110-2408	---
44522*	38110-2412	---	25/75	1-1/2" x 3/4"	44522LF*	738110-2412	---
44523	38110-2416	---	25/75	1-1/2" x 1"	44523LF	738110-2416	---
44524	38110-2420	---	25/75	1-1/2" x 1-1/4"	44524LF	738110-2420	---
44527*	38110-3208	---	20/60	2" x 1/2"	44527LF	738110-3208	---
44528*	38110-3212	---	20/60	2" x 3/4"	44528LF	738110-3212	---
44529*	38110-3216	---	20/60	2" x 1"	44529LF*	738110-3216	---
44530	38110-3220	---	20/60	2" x 1-1/4"	44530LF	738110-3220	---
44531	38110-3224	---	20/60	2" x 1-1/2"	44531LF	738110-3224	---
44532	38110-4016	---	15/30	2-1/2" x 1"	44532LF	738110-4016	---
			15/30	2-/1/2" x 1-1/4"	44533LF	738110-4020	---
44534	38110-4024	---	15/30	2-1/2" x 1-1/2"	44534LF	738110-4024	---
44535	38110-4032	---	15/30	2-1/2" x 2"	44535LF	738110-4032	---
44537	38110-4824	---	12/24	3" x 1-1/2"	44537LF	738110-4824	---
44538	38110-4832	---	12/24	3" x 2"	44538LF	738110-4832	---
44539	38110-4840	---	12/24	3" x 2-1/2"	44539LF	738110-4840	---
44541	38110-6432	---	5/10	4" x 2"	44541LF	738110-6432	---
			5/10	4" x 2-1/2"	44542LF	738110-6440	---
44543	38110-6448	---	12/24	4" x 3"	44543LF	738110-6448	---

* INSIDE HEX

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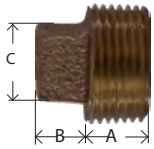
BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



109RB

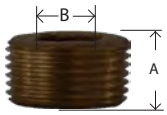
738109

LEAD FREE

CORED SQUARE HEAD PLUGS

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44650*	38109-02	---	300/3600	1/8″	44650LF	738109-02	---
44651*	38109-04	---	150/1800	1/4″	44651LF	738109-04	---
44652*	38109-06	---	100/1200	3/8″	44652LF	738109-06	---
44653	38109-08	---	50/600	1/2″	44653LF	738109-08	---
44654	38109-12	---	30/360	3/4″	44654LF	738109-12	---
44655	38109-16	---	20/240	1″	44655LF	738109-16	---
44656	38109-20	---	40/120	1-1/4″	44656LF	738109-20	---
44657	38109-24	---	30/90	1-1/2″	44657LF	738109-24	---
44658	38109-32	---	20/60	2″	44658LF	738109-32	---
44659	38109-40	---	16/32	2-1/2″	44659LF	738109-40	---
44660	38109-48	---	16/32	3″	44660LF	738109-48	---
44662	38109-64	---	6/12	4″	44662LF	738109-64	---

* solid



109ALRB

SQUARE DRIVE

738115

BRONZE COUNTERSUNK PLUGS

MIDLAND	AMC	LIST	SIZE	BOX/CASE	MIDLAND	AMC	LIST
			1/8"		44630LF		
			1/4"		44631LF		
			3/8"		44632LF		
44633	38115-08	---	1/2″	120/1440	44633LF		
44634	38115-12	---	3/4″	70/840	44634LF		---
44635	38115-16	---	1″	20/240	44635LF		---
44636	38115-20	---	1-1/4″	40/120	44636LF		---
44637	38115-24	---	1-1/2″	30/90	44637LF		---
44638	38115-32	---	2″	20/60	44638LF		---
44639	38115-40	---	2-1/2"	1/1	44639LF		---
44640	38115-48	---	3"	1/1	44640LF		---
44641	83115-64	---	4"	1/1	44641LF		---

• Straight Thread

111RB

738111

LEAD FREE

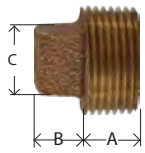
HEX LOCKNUTS

MIDLAND	AMC	LIST	BOX/CASE	SIZE	MIDLAND	AMC	LIST
44700	38111-02	---	180/720	1/8″	44700LF	780111-02	
44701	38111-04	---	90/540	1/4″	44701LF	738111-04	---
44702	38111-06	---	90/540	3/8″	44702LF	738111-06	---
44703	38111-08	---	90/360	1/2″	44703LF	738111-08	---
44704	38111-12	---	90/360	3/4″	44704LF	738111-12	---
44705	38111-16	---	50/150	1″	44705LF	738111-16	---
44706	38111-20	---	45/180	1-1/4″	44706LF	738111-20	---
44707	38111-24	---	45/135	1-1/2″	44707LF	738111-24	---
44708	38111-32	---	25/75	2″	44708LF	738111-32	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



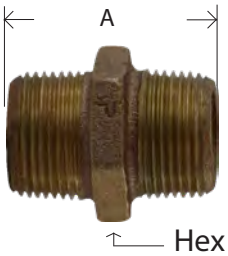
109SRB

738114

SOLID SQUARE HEAD PLUGS

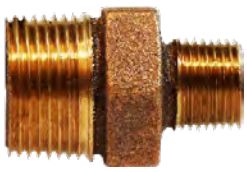
MIDLAND	AMC	LIST	SIZE	BOX/CASE	MIDLAND	AMC	LIST
44670	38114-02	---	1/8″	400/4800	44670LF	738114-02	---
44671	38114-04	---	1/4″	150/1800	44671LF	738114-04	---
44672	38114-06	---	3/8″	120/1440	44672LF	738114-06	---
44673	38114-08	---	1/2″	50/600	44673LF	738114-08	---
44674	38114-12	---	3/4″	35/420	44674LF	738114-12	---
44675	38114-16	---	1″	20/240	44675LF	738114-16	---
44676	38114-20	---	1-1/4″	30/120	44676LF	738114-20	---
44677	38114-24	---	1-1/2″	30/90	44677LF	738114-24	---
44678	38114-32	---	2″	10/60	44678LF	738114-32	---
			2-1/2"		44679LF	780114-40	
			3"		44680LF	780114-48	

HEX NIPPLES



MIDLAND	AMC	LIST	SIZE	BOX/CASE
44720		---	1/8″	400/4800
44721		---	1/4″	150/1800
44722			3/8"	120/1440
44723		---	1/2″	240/480
44724		---	3/4″	80/320
44725		---	1″	50/150
44726		---	1-1/4″	50/100
44727		---	1-1/2″	35/70
44728		---	2″	20/40
44729		---	2-1/2″	1
44730M		---	3"	4/8

REDUCING HEX NIPPLES



MIDLAND	AMC	LIST	SIZE	BOX/CASE
44740		---	1/4" x 1/8"	1/1
44742		---	1/2" x 3/8"	1/1
44753		---	1-1/2" x 1-1/4"	1/1

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FLANGE THREADED COMPANION LEAD-FREE

MIDLAND	AMC	LIST	SIZE	STD. PACK.	WT. PER 100
44790LF	738150-08	---	1/2" x 3-1/2"	1	95
44791LF	780150-12	---	3/4" x 3-7/8"	1	124
44792LF	738150-16	---	1" x 4-1/4"	1	168
44793LF	738150-20	---	1-1/4" x 4-5/8"	1	224
44794LF	738150-24	---	1-1/2" x 5"	1	251
44795LF	738150-32	---	2" x 6"	1	454
44796LF	738150-40	---	2-1/2" x 7"	1	673
44797LF	738150-48	---	3" x 7-1/2"	1	864
44798LF	738150-64	---	4" x 9"	1	1227
44799LF	780150-80	---	5" x 10"	1	1495
44800LF		---	6" x 11"	1	1801

FLANGE SWEAT COMPANION LEAD FREE

MIDLAND	AMC	LIST	SIZE	STD. PACK.	WT. PER 100
44827LF		---	1-1/2" x 5"	1	176
44828LF		---	2" x 6"	1	291
44829LF		---	2-1/2" x 7"	1	405
44830LF		---	3" x 7-1/2"	1	520
44831LF		---	4" x 9"	1	798

FLANGE FLOOR LEAD FREE

MIDLAND	AMC	LIST	SIZE	STD. PACK.	WT. PER 100
44780LF	738151-08	---	1/2"	1	35
44781LF	738151-12	---	3/4"	1	44
44782LF	738151-16	---	1"	1	59
44783LF	780151-20		1-1/4"	1	87
44784LF	738151-24	---	1-1/2"	1	105
44785LF	738151-32	---	2"	1	150

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CHROME PLATED BRONZE FITTINGS

NIPPLES AND FITTINGS

90° ELBOW

LEAD FREE

781100

MIDLAND	AMC	SIZE	LIST
45102LF	781100-06	3/8"	---
45103LF	781100-08	1/2"	---
45104LF	781100-12	3/4"	---
45105LF	781100-16	1"	---

COUPLING

LEAD FREE

781103

MIDLAND	AMC	SIZE	LIST
45412LF	781103-06	3/8"	---
45413LF	781103-08	1/2"	---

90° ELBOW

81100

MIDLAND	AMC	SIZE	LIST
45100	81100-02	1/8″	---
45101		1/4″	---
45102	81100-06	3/8″	---
45103	81100-08	1/2″	---
45104	81100-12	3/4″	---
45105	81100-16	1″	---
45124	81105-0806	1/2″ x 3/8″	---
45127	81105-1208	3/4″ x 1/2″	---

90° STREET ELLS

81116

MIDLAND	AMC	SIZE	LIST
45160	81100-02	1/8″	
45161		1/4″	---
45162	781116-06	3/8″	---
45163	81116-08	1/2″	---
45164	781116-12	3/4″	---
45165	81116-15	1"	---

90°STREET ELBOW

LEAD FREE

781116

MIDLAND	AMC	SIZE	LIST
45163LF	781116-08	1/2"	---

TEE

LEAD FREE

781101

MIDLAND	AMC	SIZE	LIST
45252LF		3/8"	---
45253LF		1/2"	---

45° ELBOW

81124

MIDLAND	AMC	SIZE	LIST
45200	81124-02	1/8″	---
45201	81124-04	1/4″	---
45202	81124-06	3/8″	---
45203	81124-08	1/2″	---
45204	81124-12	3/4″	

CROSSES

81102

MIDLAND	AMC	SIZE	LIST
45393	81102-08	1/2″	---
45394	81102-12	3/4″	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

CHROME PLATED BRONZE FITTINGS

NIPPLES AND FITTINGS

45° ELBOWS

81107

MIDLAND	AMC	SIZE	LIST
45180	81107-02	1/8″	
45181	780124-04	1/4″	---
45182	81107-06	3/8″	---
45183	781107-08	1/2″	---
45184	81107-12	3/4″	---
45185	81107-16	1″	---

TEES

81101

MIDLAND	AMC	SIZE	LIST
45250	81101-02	1/8″	---
45251	81101-04	1/4″	---
45252	81101-06	3/8″	---
45253	81101-08	1/2″	---
45254	81101-12	3/4″	---
45255	81101-16	1″	---

COUPLINGS

81103

MIDLAND	AMC	SIZE	LIST
45410	81103-02	1/8″	
45411	81103-04	1/4″	---
45412	81103-06	3/8″	---
45413	81103-08	1/2″	---
45414	81103-12	3/4″	---
45415	81103-16	1″	---
45432		3/8″ x 1/4″	---
45435	81119-0806	1/2″ x 3/8″	---
45438	81119-1208	3/4″ x 1/2″	---
45439	81119-1612	1″ x 3/4″	---

CAPS

81108

MIDLAND	AMC	SIZE	LIST
45470	81108-02	1/8″	---
45471	81108-04	1/4″	---
45472	81108-06	3/8″	---
45473	81108-08	1/2″	---
45474	81108-12	3/4″	---
45475	81108-16	1"	---

UNIONS

81104

MIDLAND	AMC	SIZE	LIST
45600	81104-02	1/8″	---
45601	81104-04	1/4″	---
45602		3/8″	---
45603	781104-08	1/2″	---
45604	81104-12	3/4″	---
45605	81104-16	1″	---
45606	81104-20	1-1/4″	

HEX BUSHINGS

81110

MIDLAND	AMC	SIZE	LIST
45502	781110-0604	3/8″ x 1/4″	
45504	81110-0804	1/2″ x 1/4″	
45505	781110-0806	1/2″ x 3/8″	
45509	781110-1208	3/4″ x 1/2″	
45513	81110-1612	1″ x 3/4″	

PLUGS

MIDLAND	AMC	SIZE	LIST
45652	81109-06	3/8″	---
45653	81109-08	1/2″	---
45654	781109-12	3/4″	---
45655	81109-16	1″	---
45657		1-1/2″	

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CLEANOUT PLUGS/ DROP EAR ELBOWS

NIPPLES AND FITTINGS

• Southern Code

CAST BRASS SQUARE HEAD CLEANOUT PLUG

PART #	SIZE	BOX/CASE	LIST PRICE
970300	1-1/2"	100/200	---
970301	2"	100/200	---
970302	2-1/2"	50/200	---
970303	3"	20/160	---
970304	3-1/2"	20/120	---
970305	4"	10/80	---
970330	5"	10/60	---
970331	6"	10/40	---
970332	8"	5/20	---
970333	10"	1/1	---

• Southern Code

CAST BRASS COUNTERSUNK HEAD CLEANOUT PLUG

PART #	SIZE	BOX/CASE	LIST PRICE
970306	1-1/2"	100/200	---
970307	2"	100/200	---
970308	2-1/2"	100/200	---
970309	3"	50/200	---
970310	3-1/2"	20/160	---
970311	4"	20/120	---
970312	5"	10/60	---
970313	6"	10/40	---
970314	8"	5/20	---

CAST BRASS COUNTERSUNK CLEANOUT
W 1/4-20 TAP

PART #	SIZE	BOX/CASE	LIST PRICE
970700	1-1/2"	1/1	---
970701	2"	1/1	---
970702	2-1/2"	1/1	---
970703	3"	1/1	---
970704	3-1/2"	1/1	---
970705	4"	1/1	---
970706	5"	1/1	---
970707	6"	1/1	---

DROP EAR ELBOWS

• Lead Free Brass

• Lead Free Bronze

PART #	SWT X FIP	LIST PRICE
44840LF	1/2 x 1/2 Bronze	---
44841LF	1/2 x 1/2 Brass	---
44842LF	3/4 x 1/2 Brass	---
44843LF	3/4 x 3/4 Brass	---

• Lead Free Brass

PART #	SWT X SWT	LIST PRICE
44844LF	1/2 x 1/2	---

• Lead Free Bronze

PART #	PEX X FIP	LIST PRICE
44845LF	1/2 x 1/2	---

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BRONZE INSERT FITTINGS

150 PSI Genuine red brass - for plastic pipe
• Not Lead Free

HEX MALE ADAPTERS

(Barb x Male Pipe)

PART #	BARB X MALE	LIST PRICE
973925	3/4" x 3/4"	---
973927	1" x 1"	---
973930	1" x 1-1/4"	---
973929	1-1/4" x 1"	---
973928	1-1/4" x 1-1/4"	---
973948	1-1/2" x 1-1/2"	---
973949	2" x 2"	---

BRONZE TEES ALL BARB

PART #	SIZE	LIST PRICE
973965	3/4"	---
973966	1"	---
973967	1-1/4"	---

ELBOWS

(Barb x Male Pipe)

PART #	SIZE	LIST PRICE
973980	3/4" x 3/4"	---
973981	1" x 3/4"	---
973982	1" x 1"	---

ELBOWS

(Barb x Barb)

PART #	HOSE SIZE	LIST PRICE
973975	3/4"	---
973976	1"	---
973977	1-1/4" x 1"	---
973978	1-1/4"	---
973979	1-1/2"	---

STEEL INSERT FITTINGS FOR PLASTIC PIPE

MALE ADAPTER

• Galvanized

(Barb x Male Pipe)

PART #	SIZE	BOX/CASE	LIST PRICE
973906	1/2"	25/100	---
973907	3/4"	25/10	---
973908	1"	16/48	---
973909	1-1/4"	12/36	---
973910	1-1/2"	6/36	---
973911	2"	5/25	---
973912	2-1/2"	1/3	---
973913	3"	1/3	---
973914	4"	1/3	---

REDUCING ADAPTER

(Insert x NPT)

PART #	SIZE	LIST PRICE
974264	3/4 x 1/2	---
974265	1 x 3/4	---
974266	1-1/4 x 1	---
974267	1-1/2 x 1-1/4	----

COUPLINGS

PART #	SIZE	BOX/CASE	LIST PRICE
973900	1/2	30/120	---
973901	3/4	20/100	---
973902	1	20/100	---
973903	1-1/4	16/64	---
973904	1-1/2	12/48	---
973905	2	5/25	---

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SS AND LEAD FREE BRONZE INSERT

NIPPLES AND FITTINGS

STAINLESS STEEL #304

#304 INSERT X MALE PIPE

- For coiled plastic pipe to submersible pump

PART #	SIZE	LIST PRICE
973947SS	1/2 x 1/2	---
973925SS	3/4 x 3/4	---
973926SS	1 x 3/4	---
973927SS	1 x 1	---
973930SS	1 x 1-1/4	---
973928SS	1-1/4 x 1-1/4	---
973948SS	1-1/2 x 1-1/2	---
973949SS	2 x 2	---

#304 INSERT X MIP ELBOW

- Hydrant elbow

PART #	SIZE	LIST PRICE
973980SS	3/4 x 3/4	---
973982SS	1 x 1	---
973985SS	1-1/4 x 1-1/4	---

LEAD FREE BRONZE INSERT FITTINGS

- NSF Approved
- ANSI 61-8

INSERT X INSERT

PART #	SIZE	LIST PRICE
973960LF	1/2	---
973961LF	3/4	---
973962LF	1	---
973963LF	1-1/4	---

- NSF Approved
- ANSI 61-8

INSERT TEE

PART #	SIZE	LIST PRICE
973965LF	3/4	---
973966LF	1	---
973967LF	1-1/4	---

- NSF Approved
- ANSI 61-8

INSERT X MALE BRANCH TEE

PART #	SIZE	LIST PRICE
973969LF	3/4	---
973970LF	1 x 3/4	---
973971LF	1	---

- NSF Approved
- ANSI 61-8

INSERT X INSERT ELBOW

PART #	SIZE	LIST PRICE
973975LF	3/4	---
973976LF	1	---

WELL COUPLINGS

304 SS DROP WELL COUPLINGS STANDARD

PART #	SIZE	LIST PRICE
62415DC	1	---
62416DC	1-1/4	---
62417DC	1-1/2	---
62418DC	2	---

HEAVY WALLED SS 304 DROP WELL COUPLINGS

PART #	SIZE	LIST PRICE
62415HDDC	1	---
62416HDDC	1-1/4	---
62417HDDC	1-1/2	---
62418HDDC	2	---

#304 STAINLESS STEEL MERCHANT COUPLINGS

PART #	SIZE	LIST PRICE
61775	1	---
61776	1-1/4	---
61777	1-1/2	---
61778	2	---

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STAINLESS STEEL NIPPLES

SCHEDULE 40 WELDED

Stainless steel pipe nipples are manufactured from stainless steel pipe that conforms to specification ASTM A312/ SA312.

All stainless steel nipples conform to specification ASTM A733. Threads conform to the requirements of ANSI B1.20.1.

304

The basic alloy. Type 304 (18-8) is an austenitic steel possessing a minimum of 18% chromium and 8% nickel, combined with a maximum of 0.08% carbon. It is a nonmagnetic steel which cannot be hardened by heat treatment, but instead. must be cold worked to obtain higher tensile strengths.

Because of its ability to withstand the corrosive action of various acids found in fruits, meats, milk, and vegetables,
Type 304 is especially suited for all types of dairy equipment piping and valves, the brewing industry, the citrus and fruit juice industry, and in food processing applications. Also used for the dye tanks, pipelines buckets, dippers, etc. that come in contact with the lormic, acetic, and other organic acids used in the dyeing industry.

In the marine environment, because of it slightly higher strength and wear resistance than type 316 it is also used for nuts, bolts, screws, and other fasteners. It is also used for springs, cogs, and other components where both wear and corrosion resistance is needed.

SCHEDULE 80 SEAMLESS

- SEAMLESS FOR UNRESTRICTED FLOW
- USE WITH AIR, WATER, OIL, NATURAL GAS, STEAM
- FITTINGS: USE THREADED CLASS 3000 HIGH-PRESSURE STAINLESS STEEL.

• ASTM A733 • ASTM A312 • ANSI/ ASME B1.20.1

• PSI 3000

316

For severe environments. Of course, there are many industrial processes that require a higher level of resistance to corrosion than Type 304 can offer. For these applications, Type 316 is the answer.

In type 316, the nickel content is increased slightly. What distinguishes Type 316 from Type 304 is the addition of molybdenum up to a maximum of 3%.

Molybdenum increases the corrosion resistance of this chromium-nickel alloy to withstand attack by many industrial chemicals and solvents, and, in particular, inhibits pitting caused by chlorides. As such, molybdenum is one of the single most useful alloying additives in the fight against corrosion.

Type 316 can withstand corrosive attack by sodium and calcium brines, hypochlorite solutions, phosphoric acid; and the sulfite liquors and sulfurous acids used in the paper pulp industry. This alloy, therefore, is specified for industrial equipment that handles the corrosive process chemicals used to produce inks, rayons, photographic chemicals, paper, textiles, bleaches, and rubber. Type 316 is also used extensively for surgical implants within the hostile environment of the body.

Type 316 is the main stainless used in the marine environment, with the exception of fasteners and other items where strength and wear resistance are needed, then Type 304 (18-8) is typically used.

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

#304

1/8" - 27

#316

1/8" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48001	---	X Close (3/4")	25	0.01	49001	---
48002	---	x 1-1/2"	25	0.03	49002	---
48003	---	x 2"	25	0.04	49003	---
48004	---	x 2-1/2"	25	0.05	49004	---
48005	---	x 3"	25	0.06	49005	---
48006	---	x 3-1/2"	25	0.07	49006	---
48007	---	x 4"	25	0.07	49007	---
48008	---	x 4-1/2"	25	0.09	49008	---
48009	---	x 5"	25	0.10	49009	---
48010	---	x 5-1/2"	25	0.11	49010	---
48011	---	x 6"	25	0.12	49011	---
		x 8"			49013	
48015	---	x 10"	1	0.19		
		x 12"	1	0.24	49017	---

1/4"-18

1/4" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48020	---	X Close (7/8")	25	0.02	49020	---
48021	---	x 1-1/2"	25	0.04	49021	---
48022	---	x 2"	25	0.06	49022	---
48023	---	x 2-1/2"	25	0.07	49023	---
48024	---	x 3"	25	0.09	49024	---
48025	---	x 3-1/2"	25	0.11	49025	---
48026	---	x 4"	25	0.13	49026	---
48027	---	x 4-1/2"	25	0.14	49027	---
48028	---	x 5"	25	0.16	49028	---
48029	---	x 5-1/2"	25	0.18	49029	---
48030	---	x 6"	25	0.19	49030	---
48031	---	x 7"	1	0.22	49031	---
48032	---	x 8"	1	0.25	49032	---
		x 9"	1	0.31	49033	---
48034	---	x 10"	1	0.35	49034	---
		x 11"	1	0.40	49035	---
48036	---	x 12"	1	0.44	49036	---
		x 14"	1	0.46	49037	---
		x 16"	1	0.47	49038	---

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SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

#304

3/8"-18

3/8" DIAMETER
SCH 40 WELDED

#316

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48040	---	X Close (1")	25	0.03	49040	---
48041	---	x 1-1/2"	25	0.06	49041	---
48042	---	x 2"	25	0.07	49042	---
48043	---	x 2-1/2"	25	0.10	49043	---
48044	---	x 3"	25	0.12	49044	---
48045	---	x 3-1/2"	25	0.15	49045	---
48046	---	x 4"	25	0.17	49046	---
48047	---	x 4-1/2"	25	0.19	49047	---
48048	---	x 5"	25	0.22	49048	---
48049	---	x 5-1/2"	25	0.23	49049	---
48050	---	x 6"	25	0.26	49050	---
48052	---	x 8"	1	0.34	49052	---
48053	---	x 9"	1			
48054	---	x 10"	1	0.43	49054	---
48056	---	x 12"	1			

1/2" - 14

1/2" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48060	---	X Close 1-1/8"	25	0.05	49060	---
48061	---	x 1-1/2"	25	0.07	49061	---
48062	---	x 2"	25	0.10	49062	---
48063	---	x 2-1/2"	25	0.14	49063	---
48064	---	x 3"	25	0.18	49064	---
48065	---	x 3-1/2"	25	0.20	49065	---
48066	---	x 4"	25	0.25	49066	---
48067	---	x 4-1/2"	25	0.28	49067	---
48068	---	x 5"	25	0.31	49068	---
48069	---	x 5-1/2"	25	0.34	49069	---
48070	---	x 6"	25	0.39	49070	---
48071	---	x 7"	1	0.41		
48072	---	x 8"	1	0.52	49072	---
48073	---	x 9"	1	0.54		
48074	---	10"	1	0.58	49074	---
48075	---	x 11"	1	0.64		
48076	---	x 12"	1	0.69	49076	

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SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

#304

3/4" - 14

3/4" DIAMETER
SCH 40 WELDED

#316

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48080	---	X Close (1-3/8")	25	0.08	49080	---
48081	---	x 1-1/2"	25	0.13	49081	---
48082	---	x 2"	25	0.14	49082	---
48083	---	x 2-1/2"	25	0.17	49083	---
48084	---	x 3"	25	0.22	49084	---
48085	---	x 3-1/2"	25	0.27	49085	---
48086	---	x 4"	25	0.32	49086	---
48087	---	x 4-1/2"	25	0.38	49087	---
48088	---	x 5"	25	0.40	49088	---
48089	---	x 5-1/2"	25	0.42	49089	---
48090	---	x 6"	25	0.48	49090	---
48091	---	x 7"	1	0.45	49091	
48092	---	x 8"	1	0.67	49092	---
48094	---	x 10"	1	0.94	49094	---
48096	---	x 12"	1	1.03	49096	

1" - 11 1/2

1" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48100	---	X Close (1-1/2")	25	0.13	49100	---
48101	---	x 2"	25	0.20	49101	---
48102	---	x 2-1/2"	25	0.25	49102	---
48103	---	x 3"	25	0.33	49103	---
48104	---	x 3-1/2"	25	0.40	49104	---
48105	---	x 4"	25	0.47	49105	---
48106	---	x 4-1/2"	25	0.53	49106	---
48107	---	x 5"	25	0.55	49107	---
48108	---	x 5-1/2"	25	0.60	49108	---
48109	---	x 6"	25	0.71	49109	---
48110	---	x 7"	1	0.57	49110	---
48111	---	x 8"	1	1.02	49111	---
48113	---	x 10"	1	1.16	49113	---
48115	---	x 12"	1	1.31	49115	

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SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

1 1/4" - 11 1/2

1-1/4" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48120	---	X Close (1-5/8")	10	0.17	49120	---
48121	---	x 2"	10	0.23	49121	---
48122	---	x 2-1/2"	10	0.35	49122	---
48123	---	x 3"	10	0.46	49123	---
48124	---	x 3-1/2"	10	0.52	49124	---
48125	---	x 4"	10	0.65	49125	---
48126	---	x 4-1/2"	10	0.53	49126	---
48127	---	x 5"	10	0.60	49127	---
48128	---	x 5-1/2"	10	0.61	49128	---
48129	---	x 6"	10	0.71	49129	---
48131	---	x 8"	1	1.34		
48135	---	x 12"	1	1.54		

1-1/2" - 11 1/2

1-1/2" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48140	---	X Close x 1-3/4"	10	0.25	49140	---
48141	---	x 2"	10	0.32	49141	---
48142	---	x 2-1/2"	10	0.41	49142	---
48143	---	x 3"	10	0.52	49143	---
48144	---	x 3-1/2"	10	0.62	49144	---
48145	---	x 4"	10	0.73	49145	---
48146	---	x 4-1/2"	10	0.86	49146	---
48147	---	x 5"	10	0.95	49147	---
48148	---	x 5-1/2"	10	1.01	49148	---
48149	---	x 6"	10	1.19	49149	---
48151	---	x 8"	1	1.63	49151	---
48152	---	x 9"	1	1.88		
48153	---	x 10"	1	2.28	49153	---
48155	---	x 12"	1	2.43		

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SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

2" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48160	---	X Close (2")	10	0.37	49160	---
48161	---	x 2-1/2"	10	0.54	49161	---
48162	---	x 3"	10	0.65	49162	---
48163	---	x 3-1/2"	10	0.88	49163	---
48164	---	x 4"	10	1.02	49164	---
48165	---	x 4-1/2"	10	1.16	49165	---
48166	---	x 5"	10	1.29	49166	---
48167	---	x 5-1/2"	10	1.46	49167	---
48168	---	x 6"	10	1.57	49168	---
48169	---	x 7"	1	1.92	49169	---
48170	---	x 8"	1	2.01	49170	---
48171	---	x 9"	1	2.55		
48172	---	x 10"	1	2.69		
48174	---	x 12"	1	2.89		

2-1/2" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LENGTH	BOX	APPROX. WT. LBS.	LIST PRICE
48180	X Close (2-1/2")	10	0.64	---
48181	x 3"			---
48187	x 6"	1	2.37	---
48193	x 12"	1	4.85	---

3" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48200	---	X Close (2-5/8")	10	0.95	49200	---
48201	---	x 3"	10	1.32	49201	---
48203	---	x 4"	10	1.66	49203	---
48205	---	x 5"	5	1.72	49205	---
48207	---	x 6"	5	1.88	49207	---
48209	---	x 8"	1	1.91	49209	---
48213	---	x 12"	1	2.12	49213	---

4" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48220	---	X Close (2-7/8")	8	1.15	49220	---
		x 4"	1	2.98	49223	---
48227	---	x 6"	1	4.10	49234	---
		x 8"	1	5.95	49236	---
		x 12"	1	9.25	49240	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL FITTINGS

150# 304 & 316 Stainless Steel Fittings

Our high quality standard pattern 150lb rated stainless steel threaded fittings are manufactured to the highest standards. All stainless steel fittings are monitored by our quality control personnel for strict compliance with applicable standards and specifications.

These stainless steel pipe fittings are excellent for uses that involve chemicals or liquids that may be corrosive. Along with fighting corrosion, a stainless steel pipe fitting will prevent contamination making it useful to many professionals.

- Use with air, water, oil, natural gas, steam
- NPT and FNPT threads conform to ASME B1.20.1
- Maximum Pressure: 300 psi @ 72 F;150 psi @ 366 F for steam
- Maximum Steam Pressure: 150 psi
- Material Conforms to ASTM A-351. Class 150 Pressure Ratings
- Manufacturing facility is ISO 9001:2008
- 304 Stainless Steel is economically priced, chromium-nickel material that offers very good corrosion resistance. 316 Stainless Steel has higher nickel content and contains molybdenum for even better corrosion resistance.

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

90° ELBOW
304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62100	---	1/8"	25	0.06	63100	---
62101	---	1/4"	25	0.06	63101	---
62102	---	3/8"	25	0.11	63102	---
62103	---	1/2"	25	0.13	63103	---
62104	---	3/4"	25	0.20	63104	---
62105	---	1"	10	0.33	63105	---
62106	---	1-1/4"	10	0.55	63106	---
62107	---	1-1/2"	5	0.77	63107	---
62108	---	2"	5	1.10	63108	---
62109	---	2-1/2"	1	2.09	63109	---
62110	---	3"	1	2.84	63110	---
62112	---	4"	1	5.00	63112	---

90° STREET ELBOW
304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62160	---	1/8"	25	0.04	63160	---
62161	---	1/4"	25	0.07	63161	---
62162	---	3/8"	25	0.09	63162	---
62163	---	1/2"	25	0.15	63163	---
62164	---	3/4"	25	0.24	63164	---
62165	---	1"	10	0.31	63165	---
62166	---	1-1/4"	10	0.51	63166	---
62167	---	1-1/2"	5	0.84	63167	---
62168	---	2"	5	1.26	63168	---
62169	---	3"	1	4.16	63170	---
		4"	1	7.61	63171	---

45° ELBOW
304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62180	---	1/8"	25	0.04	63180	---
62181	---	1/4"	25	0.07	63181	---
62182	---	3/8"	25	0.09	63182	---
62183	---	1/2"	25	0.13	63183	---
62184	---	3/4"	25	0.20	63184	---
62185	---	1"	10	0.33	63185	---
62186	---	1-1/4"	10	0.49	63186	---
62187	---	1-1/2"	5	0.66	63187	---
62188	---	2"	5	1.14	63188	---
62189	---	2-1/2"	1	2.82		
62190	---	3"	1	2.91	63190	---
62191	---	4"	1	5.05	63192	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

TEE

304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62250	---	1/8″	25	0.07	63250	---
62251	---	1/4″	25	0.07	63251	---
62252	---	3/8″	25	0.11	63252	---
62253	---	1/2″	25	0.20	63253	---
62254	---	3/4″	25	0.29	63254	---
62255	---	1″	10	0.42	63255	---
62256	---	1-1/4″	5	0.66	63256	---
62257	---	1-1/2″	5	0.99	63257	---
62258	---	2″	3	1.43	63258	---
62259	---	2-1/2"	1	1.43		
62260	---	3″	1	3.66	63260	---
		4"	1	7.19	63261	---

CROSS

304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
		1/8″	25	0.06	63390	---
62391	---	1/4″	25	0.09	63391	---
62392	---	3/8″	25	0.13	63392	---
62393	---	1/2″	25	0.29	63393	---
62394	---	3/4″	10	0.44	63394	---
62395	---	1″	10	0.74	63395	---
62396	---	1-1/4″	5	1.25	63396	---
62397	---	1-1/2″	5	1.53	63397	---
62398	---	2″	1	2.28	63398	---
		3"	1	5.46	63400	---
		4"	1	9.41	63401	---

HEX NIPPLE

304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62720	---	1/8″	1	0.02	63720	---
62721	---	1/4″	1	0.04	63721	---
62722	---	3/8″	1	0.07	63722	---
62723	---	1/2″	1	0.11	63723	---
62724	---	3/4″	1	0.18	63724	---
62725	---	1″	1	0.22	63725	---
62726	---	1-1/4″	1	0.37	63726	---
62727	---	1-1/2″	1	0.46	63727	---
62728	---	2″	1	0.61	63728	---

REDUCING HEX NIPPLE

304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62740	---	1/4" x 1/8"	1	0.04	63740	---
62741	---	3/8" x 1/8"	1	0.07	63741	---
62742	---	3/8" x 1/4"	1	0.07	63742	---
62744	---	1/2" x 1/4"	1	0.09	63744	---
62745	---	1/2" x 3/8"	1	0.11	63745	---
62747	---	3/4" x 1/4"	1	0.15	63747	---
62748	---	3/4" x 3/8"	1	0.15	63748	---
62749	---	3/4" x 1/2"	1	0.15	63749	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

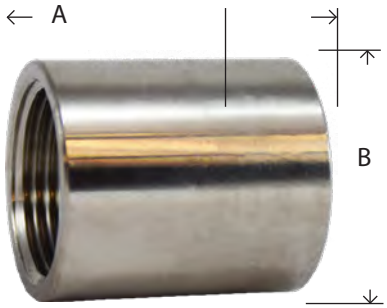
COUPLING
304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE*	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62410	---	1/8"	25	0.03	63410	---
62411	---	1/4"	25	0.06	63411	---
62412	---	3/8"	25	0.07	63412	---
62413	---	1/2"	25	0.13	63413	---
62414	---	3/4"	25	0.18	63414	---
62415	---	1"	25	0.24	63415	---
62416	---	1-1/4"	10	0.44	63416	---
62417	---	1-1/2"	10	0.51	63417	---
62418	---	2"	5	0.79	63418	---
62419	---	2-1/2"	1	1.28	63419	---
62420	---	3"	1	1.87	63420	---
62421	---	4"	1	2.80	63421	---

REDUCING COUPLING
304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62430	---	1/4" x 1/8"	25	0.04	63430	---
62431	---	3/8" x 1/8"	25	0.04	63431	---
62432	---	3/8" x 1/4"	25	0.04	63432	---
62433	---	1/2" x 1/8"	25	0.09	63433	---
62434	---	1/2" x 1/4"	25	0.09	63434	---
62435	---	1/2" x 3/8"	25	0.09	63435	---
62455	---	3/4" x 1/8"	25	0.13	63455	---
62436	---	3/4" x 1/4"	25	0.11	63436	---
62437	---	3/4" x 3/8"	25	0.13	63437	---
62438	---	3/4" x 1/2"	25	0.15	63438	---
		1" x 1/4"	25	0.25	63459	---
62440	---	1" x 3/8"	25	0.22	63440	---
62441	---	1" x 1/2"	25	0.24	63441	---
62442	---	1" x 3/4"	25	0.24	63442	---
62445	---	1-1/4" x 3/4"	10	0.33	63445	---
62446	---	1-1/4" x 1"	10	0.35	63446	---
62447	---	1-1/2" x 1/2"	10	0.40	63447	---
62448	---	1-1/2" x 3/4"	10	0.42	63448	---
62449	---	1-1/2" x 1"	10	0.44	63449	---
62450	---	1-1/2" x 1-1/4"	10	0.46	63450	---
62459		2" x 1/2"				
62451	---	2" x 3/4"				
62452	---	2" x 1"	5	0.57	63452	---
62453	---	2" x 1-1/4"	5	0.62	63453	---
62454	---	2" x 1-1/2"	5	0.62	63454	---
62462		2-1/2" x 2"				
62428	---	3" x 1"	1	1.82		
62456	---	3" x 2"	1	2.25		
62457		4" x 3"				

OD MACHINED COUPLING
304 & 316 150#



PART # 304 S.S	LIST PRICE	SIZE	A	B	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62410B	---	1/8"	0.76	0.56	25	0.04	63410B	---
62411B	---	1/4"	0.94	0.71	25	0.04	63411B	---
62412B	---	3/8"	0.98	0.84	25	0.07	63412B	---
62413B	---	1/2"	1.33	1.01	25	0.09	63413B	---
62414B	---	3/4"	1.41	1.27	25	0.16	63414B	---
62415B	---	1"	1.69	1.54	10	0.21	63415B	---
62416B	---	1-1/4"	1.93	1.90	10	0.31	63416B	---
62417B	---	1-1/2"	1.93	2.16	5	0.41	63417B	---
62418B	---	2"	1.96	2.66	5	0.68	63418B	---
62420B	---	3"	3.23	3.76	1			

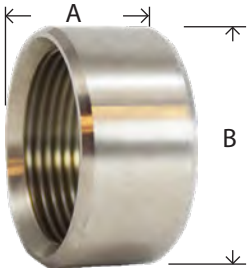
WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

HALF COUPLING

304 & 316 150#



PART # 304 S.S	LIST	SIZE	A	B	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62770		1/8"						
62771	---	1/4"	0.39	0.70	25	0.02	63771	---
62772	---	3/8"	0.45	0.82	25	0.02	63772	---
62773	---	1/2"	0.57	1.02	25	0.09	63773	---
62774	---	3/4"	0.67	1.22	25	0.11	63774	---
62775	---	1"	0.79	1.47	25	0.13	63775	---
62776	---	1-1/4"	0.86	1.88	10	0.24	63776	---
62777	---	1-1/2"	0.94	2.10	10	0.26	63777	---
62778	---	2"	1.06	2.60	5	0.44	63778	---
62779		3"						

UNION

304 & 316 150#

- Stainless Steel Seat

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62600	---	1/8"	25	0.09	63600	---
62601	---	1/4"	25	0.13	63601	---
62602	---	3/8"	25	0.22	63602	---
62603	---	1/2"	25	0.26	63603	---
62604	---	3/4"	25	0.46	63604	---
62605	---	1"	10	0.60	63605	---
62606	---	1-1/4"	5	0.90	63606	---
62607	---	1-1/2"	5	1.10	63607	---
62608	---	2"	1	1.81	63608	---
62609		2-1/2"				
62610	---	3"	1	3.40	63610	---

CAP - CAST

304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62470	---	1/8"	25	0.02	63470	---
62471	---	1/4"	25	0.02	63471	---
62472	---	3/8"	25	0.04	63472	---
62473	---	1/2"	25	0.07	63473	---
62474	---	3/4"	25	0.11	63474	---
62475	---	1"	10	0.18	63475	---
62476	---	1-1/4"	10	0.29	63476	---
62477	---	1-1/2"	10	0.40	63477	---
62478	---	2"	10	0.60	63478	---
62480	---	3"	1	1.28	63480	---
62481	---	4"	1	1.54		

HEX CAP - BARSTOCK

304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62075	---	1/8"	25	0.04	63075	---
62076	---	1/4"	25	0.09	63076	---
62077	---	3/8"	25	0.11	63077	---
62078	---	1/2"	25	0.13	63078	---
62079	---	3/4"	25	0.22	63079	----
62080	----	1"	10	0.22	63080	---
62081	----	1-1/4"	10	0.29	63081	---
62082	---	1-1/2"	5	0.40	63082	---
62083	---	2"	5	0.49	63083	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

HEX BUSHING
304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE M X F	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62500	---	1/4″ x 1/8″	25	0.04	63500	---
62501	---	3/8″ x 1/8″	25	0.04	63501	---
62502	---	3/8″ x 1/4″	25	0.04	63502	---
62503	---	1/2″ x 1/8″	25	0.09		
62504	---	1/2″ x 1/4″	25	0.09	63504	---
62505	---	1/2″ x 3/8″	25	0.11	63505	---
62506	---	3/4" x 1/8"	25	0.13	63506	---
62507	---	3/4″ x 1/4″	25	0.15	63507	---
62508	---	3/4″ x 3/8″	25	0.15	63508	---
62509	---	3/4″ x 1/2″	25	0.15	63509	---
62557	---	1" x 1/8"	25	0.27		
62510	---	1" x 1/4"	25	0.22	63510	---
62511	---	1" x 3/8"	25	0.24	63511	---
62512	---	1″ x 1/2″	25	0.24	63512	---
62513	---	1″ x 3/4″	25	0.24	63513	---
62515	---	1-1/4″ x 3/8″	25	0.37		
62516	---	1-1/4″ x 1/2″	25	0.37	63516	---
62517	---	1-1/4″ x 3/4″	25	0.37	63517	---
62518	---	1-1/4″ x 1″	25	0.37	63518	---
62521	---	1-1/2″ x 1/2″	25	0.44	63521	---
62522	---	1-1/2″ x 3/4″	25	0.46	63522	---
62532	---	1-1/2″ x 1″	25	0.49	63523	---
62524	---	1-1/2″ x 1-1/4″	25	0.46	63524	---
62559	---	2" x 1/4"	10	0.95	63526	
62527	---	2″ x 1/2″	10	0.66	63527	---
62528	---	2″ x 3/4″	10	0.66	63528	---
62529	---	2″ x 1″	10	0.66	63529	---
62530	---	2″ x 1-1/4″	10	0.68	63530	---
62531	---	2″ x 1-1/2″	10	0.68	63531	---
62547		2-1/2" 3/4"				
62536	---	2-1/2" x 1"	5	1.70		
62534	---	2-1/2″ x 1-1/2″	5	1.23	63534	---
62535	---	2-1/2″ x 2″	5	1.21	63535	---
		3" x 1"	5	2.20	63550	---
62537	---	3" x 1-1/2"	5	1.97	63537	---
62538	---	3″ x 2″	5	1.72	63538	---
62539	---	3″ x 2-1/2″	5	1.81	63539	
		4" x 1-1/2"	5	3.92	63540	---
		4" x 2"	1	3.72	63541	---
62543	---	4″ x 3″	1	2.43	63543	---

• STAINLESS STEEL BULKHEAD FITTINGS IN BULKHEAD SECTION

STAINLESS STEEL:
- BARBED FOR PLASTIC PIPE
- WELL COUPLINGS
- MERCHANT COUPLINGS
- SEE END OF BRONZE FITTING SECTION

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

HEX LOCKNUT

304 & 316 150#

• Straight Thread

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62700	---	1/8"	25	0.02		
62701	---	1/4"	25	0.05	63701	---
62702	---	3/8"	25	0.06	63702	---
62703	---	1/2"	25	0.07	63703	---
62704	---	3/4"	25	0.11	63704	----
62705	---	1"	25	0.15	63705	---
62706	---	1-1/4"	25	0.22	63706	---
62707	---	1-1/2"	25	0.29	63707	---
62708	---	2"	10	0.35	63708	---

CORED SQUARE HEAD PLUG

304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62670	---	1/8"	25	0.02	63670	---
62671	---	1/4"	25	0.03	63671	---
62672	---	3/8"	25	0.04	63672	---
62653	---	1/2"	25	0.06	63653	---
62654	---	3/4"	25	0.13	63654	---
62655	---	1"	25	0.20	63655	---
62656	---	1-1/4"	25	0.32	63656	---
62657	---	1-1/2"	10	0.41	63657	---
62658	---	2"	10	0.65	63658	---
62659	---	2-1/2"	1	1.04		
62660	---	3"	1	0.88		

CORED HEX HEAD PLUG

304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62630	---	1/8"	25	0.02	63630	---
62631	---	1/4"	25	0.02	63631	---
62632	---	3/8"	25	0.04	63632	---
62633	---	1/2"	25	0.07	63633	---
62634	---	3/4"	25	0.11	63634	---
62635	---	1"	25	0.20	63635	---
62636	---	1-1/4"	25	0.31	63636	---
62637	---	1-1/2"	10	0.44	63637	---
62638	---	2"	10	0.65	63638	---
62640		3"				
		4"	1	2.77	63641	---

HOSE NIPPLE

304 & 316 150#

HOSE BARB X MALE PIPE

PART # 304 S.S	LIST PRICE	HOSE I.D. X MALE PIPE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
73951	---	1/4"	1	0.04	973951	---
73952	---	3/8"	1	0.07	973952	---
73953	---	1/2"	1	0.13	973953	---
73954	---	3/4"	1	0.20	973954	---
73955	---	1"	1	0.33	973955	---
73956	---	1-1/4"	1	0.47	973956	---
73957	---	1-1/2"	1	0.67	973957	---
73958	---	2"	1	0.88	973958	---
73959	---	2-1/2"	1	1.45	973959	---
73960	---	3"	1	1.94	973990	---
73961	---	4"	1	3.57	973991	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

REDUCING HOSE NIPPLE

304 150#

HOSE BARB X MALE PIPE

PART # 304 S.S	HOSE I.D. X MALE PIPE	BOX	APPROX. WT. LBS.	LIST PRICE
73970	1/4″ x 1/8″	1	0.04	---
73971	3/8″ x 1/4″	1	0.07	---
73972	1/2″ x 3/8″	1	0.13	---
73973	1/2″ x 1/4″	1	0.13	---
73974	3/4″ x 1/2″	1	0.20	---
73975	1″ x 3/4″	1	0.33	---
73976	1″ x 1/2″	1	0.33	---
73977	1-1/4″ x 1″	1	0.46	---
73979	1-1/2″ x 1-1/4″	1	0.66	---
73980	1-1/2″ x 1″	1	0.66	---
73981	2″ x 1-1/2″	1	0.88	---
73982	2″ x 1-1/4″	1	0.88	---

SOLID HEX HEAD PLUG

316 150#

PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.	LIST PRICE
63660	1/8"	25	0.04	---
63661	1/4"	25	0.06	---
63662	3/8"	25	0.08	---
63663	1/2"	25	0.12	---
63664	3/4"	25	0.15	---
63665	1"	25	0.24	---

HEX SOCKET PLUG - BARSTOCK

316 150#

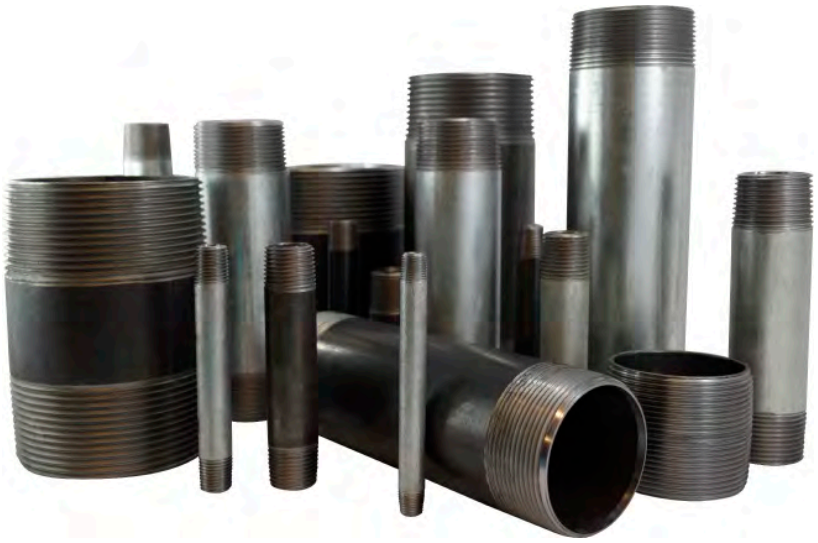
PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.	LIST PRICE
63759	1/16"	1	0.03	---
63760	1/8 "	1	0.05	---
63761	1/4 "	1	0.07	---
63762	3/8 "	1	0.10	---
63763	1/2 "	1	0.14	---
63764	3/4 "	1	0.21	---
63765	1"	1	0.24	---

SOLID SQUARE HEAD PLUG

316 150#

PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.	LIST PRICE
63680	1/8"	25	0.04	---
63681	1/4"	25	0.04	---
63682	3/8"	25	0.05	---
63683	1/2"	25	0.06	---
63684	3/4"	25	0.12	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



BLACK AND GALVANIZED STEEL NIPPLES

Product Specifications

Welded steel pipe nipples both galvanized and black in diameters ranging from 1/8" up to 4" in lengths from close to 12" and cut-pipe up to 120". -200°-150° Temp Rating.

Technical Specifications

Standards: Product complies with ASTM A-53, A-733 and ANSI B1.20.1 for threading, dimensions and pipe specifications.

Pipe: Complies with ASTM A-53 mill tested schedule 40 and 80 for both Welded & Seamless Meets ANSI B36.1. All pipe is hydrostatic tested.

Galvanized: Zinc coating applied by hot dipped. Galvanized complying with ASTM A-123, NSF approved, RoHS compliant.

Black: Protected against oxidation with varnish coating.

Cutting Procedure: All pipe is roller cut. A visual inspection of seams, excessive galvanizing, mid-welds, poor galvanizing, bends, roundness, under and over weight of the pipe is made at the time it is cut. This is done for every length of pipe. Pipe lengths are cut to a tolerance of + or - 1/16" of the actual length.

Threading Procedure:

All pipe is chaser thread cut to American Standard Tapered Pipe Thread standards. This is 3/4" taper per foot. Pipe is visually inspected for roundness of threads and other visual faults as it is removed from the threading machine.

SCHEDULE 80 XXS SEAMLESS

XXS SEAMLESS

- ASTM A106 Grade B Seamless Pipe
- ASTM A 53
- WWN 351
- Standard NPT Tapered Pipe Threads as per ANSI B 1.20.1 Specification

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40
NIPPLES AND FITTINGS

1/8" - 27

Wall Thickness 0.068 - GradeB - Test Pressure 700 PSI - Thread Length 0.39

1/8" DIAMETER
SCH 40 WELDED

PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56001	---	X Close (3/4")	50/600	0.02	57001	---
56002	---	x 1-1/2"	50/600	0.03	57002	---
56003	---	x 2"	50/500	0.04	57003	---
56004	---	x 2-1/2"	100/400	0.06	57004	---
56005	---	x 3	50/300	0.07	57005	---
56006	---	x 3-1/2"	50/300	0.08	57006	---
56007	---	x 4"	50/300	0.09	57007	---
56008	---	x 4-1/2"	50/300	0.10	57008	---
56009	---	x 5"	50/300	0.11	57009	---
56010	---	x 5-1/2"	50/300	0.12	57010	---
56011	---	x 6"	50/300	0.13	57011	---
56012	---	x 7"	50/300	0.15	57012	---
56013	---	x 8"	50/300	0.18	57013	---
56014	---	x 9"	50/300	0.21	57014	---
56015	---	x 10"	50/300	0.25	57015	---
56017	---	x 12"	50/300	0.29	57017	---

1/4"-18

Wall Thickness 0.068 - GradeB - Test Pressure 700 PSI - Thread Length 0.39

1/4" DIAMETER
SCH 40 WELDED

PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56020	---	X Close (7/8")	50/600	0.04	57020	---
56021	---	x 1-1/2"	125/500	0.06	57021	---
56022	---	x 2"	125/500	0.06	57022	---
56023	---	x 2-1/2"	100/400	0.08	57023	---
56024	---	x 3	50/300	0.10	57024	---
56025	---	x 3-1/2"	50/300	0.12	57025	---
56026	---	x 4"	50/300	0.14	57026	---
56027	---	x 4-1/2"	50/300	0.17	57027	---
56028	---	x 5"	50/300	0.19	57028	---
56029	---	x 5-1/2"	50/300	0.21	57029	---
56030	---	x 6"	50/300	0.23	57030	---
56031	---	x 7"	50/100	0.27	57031	---
56032	---	x 8"	50/100	0.31	57032	---
56033	---	x 9"	50/100	0.35	57033	---
56034	---	x 10"	50/100	0.40	57034	---
56035	---	x 11"	50/100	0.44	57035	---
56036	---	x 12"	50/100	0.48	57036	---
56038	---	x 18"	50/100	0.54		

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40

NIPPLES AND FITTINGS

3/8" DIAMETER

SCH 40 WELDED

Wall Thickness 0.091 - Grade B - Test Pressure 700 PSI - Thread Length 0.6

PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56040	---	X Close (1")	50/600	0.05	57040	---
56041	---	x 1-1/2"	125/500	0.07	57041	---
56042	---	x 2"	125/500	0.08	57042	---
56043	---	x 2-1/2"	100/400	0.11	57043	---
56044	---	x 3"	50/300	0.13	57044	---
56045	---	x 3-1/2"	50/300	0.16	57045	---
56046	---	x 4"	50/300	0.19	57046	---
56047	---	x 4-1/2"	50/200	0.21	57047	---
56048	---	x 5"	50/150	0.24	57048	---
56049	---	x 5-1/2"	50/150	0.27	57049	---
56050	---	x 6"	50/100	0.29	57050	---
56051	---	x 7"	50/100	0.35	57051	---
56052	---	x 8"	50/100	0.40	57052	---
56053	---	x 9"	50/100	0.45	57053	---
56054	---	x 10"	50/100	0.51	57054	---
56055	---	x 11"	50/100	0.56	57055	---
56056	---	x 12"	50/100	0.62	57056	---
56430	---	x 18"	5/10	0.71	57430	---
		x 24"	1/1	1.02	57431	---

1/2" DIAMETER

SCH 40 WELDED

Wall Thickness 0.109 - Grade B - Test Pressure 700 PSI - Thread Length 0.78

PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56060	---	X Close (1-1/8")	50/600	0.08	57060	---
56061	---	x 1-1/2"	125/500	0.08	57061	---
56062	---	x 2"	125/500	0.12	57062	---
56063	---	x 2-1/2"	100/400	0.15	57063	---
56064	---	x 3"	50/300	0.19	57064	---
56065	---	x 3-1/2"	50/300	0.23	57065	---
56066	---	x 4"	50/300	0.27	57066	---
56067	---	x 4-1/2"	50/200	0.30	57067	---
56068	---	x 5"	50/150	0.34	57068	---
56069	---	x 5-1/2"	50/150	0.38	57069	---
56070	---	x 6"	50/100	0.42	57070	---
56071	---	x 7"	50/100	0.49	57071	---
56072	---	x 8"	50/100	0.57	57072	---
56073	---	x 9"	50/100	0.65	57073	---
56074	---	x 10"	50/100	0.72	57074	---
56075	---	x 11"	50/100	0.80	57075	---
56076	---	x 12"	40/80	0.87	57076	---
56240	---	x 18"	1/3	1.29	57240	---
56241	---	x 24"	1/3	1.74	57241	---
56242	---	x 30"	1/3	2.16	57242	---
56243	---	x 36"	1/3	2.61	57243	---
56244	----	x 42"	1/3	3.03	57244	---
56245	---	x 48"	1/3	3.48	57245	---
56246	---	x 60"	1/3	4.35	57246	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40
NIPPLES AND FITTINGS

3/4" DIAMETER
SCH 40 WELDED

Wall Thickness 0.113 - Grade B - Test Pressure 700 PSI - Thread Length 0.79

Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56080	---	X Close (1-3/8")	50/300	0.13	57080	---
56081	---	x 1-1/2"	125/250	0.10	57081	---
56082	---	x 2"	125/250	0.15	57082	---
56083	---	x 2-1/2"	50/250	0.20	57083	---
56084	---	x 3"	50/200	0.24	57084	---
56085	---	x 3-1/2"	50/150	0.29	57085	---
56086	---	x 4"	50/150	0.34	57086	---
56087	---	x 4-1/2"	50/150	0.39	57087	---
56088	---	x 5"	50/150	0.43	57088	---
56089	---	x 5-1/2"	60/120	0.48	57089	---
56090	---	x 6"	50/100	0.53	57090	---
56091	---	x 7"	50/100	0.63	57091	---
56092	---	x 8"	50/100	0.72	57092	---
56093	---	x 9"	40/80	0.82	57093	---
56094	---	x 10"	40/80	0.91	57094	---
56095	---	x 11"	30/60	1.01	57095	---
56096	---	x 12"	30/60	1.10	57096	---
56250	---	x 18"	1/3	1.63	57250	---
56251	---	x 24"	1/3	2.20	57251	---
56252	---	x 30"	1/3	2.73	57252	---
56253	---	x 36"	1/3	3.30	57253	---
56254	----	x 42"	1/3	3.83	57254	----
56255	---	x 48"	1/3	4.40	57255	---
56256	---	x 60"	1/3	5.50	57256	---
56257	---	x 72"	1/3	6.60	57257	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40

NIPPLES AND FITTINGS

1" DIAMETER

SCH 40 WELDED

Wall Thickness 0.133 - Grade B - Test Pressure 700 PSI - Thread Length 0.98

PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56100	---	X Close (1-1/2")	50/200	0.16	57100	---
56101	---	x 2"	50/150	0.23	57101	---
56102	---	x 2-1/2"	50/150	0.29	57102	---
56103	---	x 3"	50/100	0.36	57103	---
56104	---	x 3-1/2"	50/100	0.43	57104	---
56105	---	x 4"	50/100	0.50	57105	---
56106	---	x 4-1/2"	50/100	0.56	57106	---
56107	---	x 5"	50/100	0.63	57107	---
56108	---	x 5-1/2"	50/100	0.70	57108	---
56109	---	x 6"	40/80	0.77	57109	---
56110	---	x 7"	25/50	0.90	57110	---
56111	---	x 8"	25/50	1.03	57111	---
56112	---	x 9"	15/30	1.17	57112	---
56113	---	x 10"	15/30	1.30	57113	---
56114	---	x 11"	15/30	1.44	57114	---
56115	---	x 12"	15/30	1.57	57115	---
56260	---	x 18"	1/3	2.34	57260	---
56261	---	x 24"	1/3	3.14	57261	---
56262	---	x 30"	1/3	3.91	57262	---
56263	---	x 36"	1/3	4.71	57263	---
56264	----	x 42"	1/3	5.48	57264	---
56265	---	x 48"	1/3	6.28	57265	---
56266	---	x 60"	1/3	7.85	57266	---
56267	---	x 72"	1/3	9.42	57267	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40
NIPPLES AND FITTINGS

1-1/4" DIAMETER
SCH 40 WELDED

Wall Thickness 0.14 - Grade B - Test Pressure 1300 PSI - Thread Length 1.01

PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56120	---	X Close (1-5/8")	50/100	0.25	57120	---
56121	---	x 2"	50/100	0.32	57121	---
56122	---	x 2-1/2"	50/100	0.41	57122	---
56123	---	x 3"	50/100	0.50	57123	---
56124	---	x 3-1/2"	30/60	0.60	57124	---
56125	---	x 4"	30/60	0.69	57125	---
56126	---	x 4-1/2"	30/60	0.78	57126	---
56127	---	x 5"	25/50	0.87	57127	---
56128	---	x 5-1/2"	25/50	0.96	57128	---
56129	---	x 6"	25/50	1.06	57129	---
56130	---	x 7"	15/30	1.24	57130	---
56131	---	x 8"	15/30	1.42	57131	---
56132	---	x 9"	15/30	1.61	57132	---
56133	---	x 10"	15/30	1.79	57133	---
56134	---	x 11"	10/20	1.97	57134	---
56135	---	x 12"	10/20	2.16	57135	---
56270	---	x 18"	1/3	3.22	57270	---
56271	---	x 24"	1/3	4.32	57271	---
56272	---	x 30"	1/3	3.22	57272	---
56273	---	x 36"	1/3	6.48	57273	---
56275	---	x 48"			57275	---
		x 48"	1/3	8.64	57275	---
56276		x 60"	1/3	10.80	57276	

1-1/2" DIAMETER
SCH 40 WELDED

Wall Thickness 0.145 - Grade B - Test Pressure 1300 PSI - Thread Length 1.03

PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56140	---	X Close (1-3/4")	50/100	0.31	57140	---
56141	---	x 2"	40/80	0.37	57141	---
56142	---	x 2-1/2"	40/80	0.47	57142	---
56143	---	x 3"	40/80	0.58	57143	---
56144	---	x 3-1/2"	25/50	0.68	57144	---
56145	---	x 4"	25/50	0.78	57145	---
56146	---	x 4-1/2"	25/50	0.89	57146	---
56147	---	x 5"	25/50	1.10	57147	---
56148	---	x 5-1/2"	20/40	1.10	57148	---
56149	---	x 6"	15/30	1.20	57149	---
56150	---	x 7"	15/30	1.41	57150	---
56151	---	x 8"	15/30	1.62	57151	---
56152	---	x 9"	15/30	1.83	57152	---
56153	---	x 10"	1/20	2.04	57153	---
56154	---	x 11"	1/20	2.25	57154	---
56155	---	x 12"	1/20	2.46	57155	---
56280	---	x 18"	1/3	3.66	57280	---
56281	---	x 24"	1/3	4.92	57281	---
56282	---	x 30"	1/3	6.12	57282	---
56283	---	x 36"	1/3	7.38	57283	---
56285	---	x 48"	1/3	9.84	57285	---
56286		x 60"			57286	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40
NIPPLES AND FITTINGS

2" DIAMETER
SCH 40 WELDED
Wall Thickness 0.154 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56160	---	X Close (2")	40/80	0.55	57160	---
56161	---	x 2-1/2"	25/50	0.70	57161	---
56162	---	x 3"	25/50	0.86	57162	---
56163	---	x 3-1/2"	1/30	1.01	57163	---
56164	---	x 4"	1/30	1.16	57164	---
56165	---	x 4-1/2"	1/25	1.31	57165	---
56166	---	x 5"	1/30	1.47	57166	---
56167	---	x 5-1/2"	1/30	1.62	57167	---
56168	---	x 6"	1/20	1.77	57168	---
56169	---	x 7"	1/20	2.08	57169	---
56170	---	x 8"	1/20	2.39	57170	---
56171	---	x 9"	1/10	2.70	57171	---
56172	---	x 10"	1/10	3.00	57172	---
56173	---	x 11"	1/10	3.31	57173	---
56174	---	x 12"	1/10	3.62	57174	---
56290	---	x 18"	1/3	5.39	57290	---
56291	---	x 24"	1/3	5.26	57291	---
56292	---	x 30"	1/3	7.03	57292	---
56293	---	x 36"	1/3	10.86	57293	---
56294	----	x 42"	1/3	12.63	57294	---
56295	---	x 48"	1/3	14.48	57295	---
56296	---	x 60"	1/3	18.10	57296	---
56297	---	x 72"	1/3	18.10	57297	---

2-1/2" DIAMETER
SCH 40 WELDED
Wall Thickness 0.203 - Grade B - Test Pressure 2500 PSI - Thread Length 1.57

PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56180	---	X Close (2-1/2")	1/20	1.09	57180	---
56181	---	x 3"	1/20	1.33	57181	---
56182	---	x 3-1/2"	1/20	1.57	57182	---
56183	---	x 4"	1/20	1.82	57183	---
56184	---	x 4-1/2"	1/20	2.06	57184	---
56185	---	x 5"	1/20	2.30	57185	---
56186	---	x 5-1/2"	1/10	2.54	57186	---
56187	---	x 6"	1/10	2.78	57187	---
56188	---	x 7"	1/10	3.27	57188	---
56189	---	x 8"	1/10	3.75	57189	---
56190	---	x 9"	1/10	4.24	57190	---
56191	---	x 10"	1/8	4.72	57191	---
56192	---	x 11"	1/8	5.21	57192	---
56193	---	x 12"	1/8	5.69	57193	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40

NIPPLES AND FITTINGS

3" DIAMETER

SCH 40 WELDED

Wall Thickness 0.216 - Grade B - Test Pressure 2500 PSI - Thread Length 1.64

PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56200	---	X Close (2-5/8")	1/20	1.52	57200	---
56201	---	x 3"	1/20	1.76	57201	---
56202	---	x 3-1/2"	1/10	2.08	57202	---
56203	---	x 4"	1/10	2.39	57203	---
56204	---	x 4-1/2"	1/10	2.71	57204	---
56205	---	x 5"	1/10	3.03	57205	---
56206	---	x 5-1/2"	1/10	3.35	57206	---
56207	---	x 6"	1/10	3.66	57207	---
56208	---	x 7"	1/8	4.30	57208	---
56209	---	x 8"	1/8	4.93	57209	---
56210	---	x 9"	1/8	5.57	57210	---
56211	---	x 10"	1/5	6.20	57211	---
56212	---	x 11"	1/5	7.20	57212	---
56213	---	x 12"	1/5	7.47	57213	---
		x 24"	1	14.94	57311	---

4" DIAMETER

SCH 40 WELDED

Wall Thickness 0.237 - Grade B - Test Pressure 2210 PSI - Thread Length 1.74

PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56220	---	X Close (2-7/8")	1/10	2.00	57220	---
56221	---	3-1/2"	1/8	2.21		
56223	---	x 4"	1/8	3.41	57223	---
56224	---	x 4-1/2"	1/6	3.86	57224	---
56225	---	x 5"	1/6	4.31	57225	---
56226	---	x 5-1/2"	1/6	4.76	57226	---
56227	---	x 6"	1/6	5.21	57227	---
56330	---	x 7"	1/5	6.48	57330	---
56229	---	x 8"	1/5	7.01	57229	---
56331	---	x 9"	1/5	7.54	57331	---
56332	---	x 10"	1/5	8.14	57332	---
56228	---	x 12"	1/4	8.54	57228	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

NIPPLES AND ASSORTMENTS

NIPPLES AND FITTINGS

6" DIAMETER
SCH 40 WELDED

Wall Thickness 0.154 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56300	---	X Close (3-1/8")	1/1	3.80	57300	---
		x 4"	1/1	5.30	57304	---
		x 6"	1/1	8.30	57301	---
		x 8"	1/1	11.30	57305	---
		x 10"			57306	---
		x 12"	1/1	17.20	57308	---

8" DIAMETER
SCH 40 WELDED

Wall Thickness 0.154 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
57320	X Close (3-1/8")	1/1	5.80	---
57322	x 6"	1/1	6.50	---
57324	x 8"	1/1	11.30	---
57326	x 10"	1/1	19.00	---
57328	x 12"	1/1	28.55	---

SCH 40 SINGLE RUN NIPPLE BLACK

PART	DESCRIPTION	CLOSE	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5	5 1/2	6	TOTAL PCS	LIST
973570	1/2"	1	1	1	1	1	1	1	1	1	1	1	11	
973571	3/4"	1	1	1	1	1	1	1	1	1	1	1	11	
973572	1"	1		1	1	1	1	1	1	1	1	1	10	
973573	1-1/4"	1		1	1	1	1	1	1	1	1	1	10	
973574	1-1/2"	1		1	1	1	1	1	1	1	1	1	10	
973575	2"	1			1	1	1	1	1	1	1	1	9	

SCH 40 SINGLE RUN NIPPLE GALVANIZED

PART	DESCRIPTION	CLOSE	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5	5 1/2	6	TOTAL PCS	LIST
973670	1/2"	1	1	1	1	1	1	1	1	1	1	1	11	
973671	3/4"	1	1	1	1	1	1	1	1	1	1	1	11	
973672	1"	1		1	1	1	1	1	1	1	1	1	10	
973673	1-1/4"	1		1	1	1	1	1	1	1	1	1	10	
973674	1-1/2"	1		1	1	1	1	1	1	1	1	1	10	
973675	2"	1			1	1	1	1	1	1	1	1	9	

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

NIPPLES AND ASSORTMENTS

NIPPLES AND FITTINGS

STEEL NIPPLE ASSORTMENTS

B "6" ASSORTMENTS

BLACK		LENGTH											WT.	TOTAL	
		CLOSE	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"	LBS.	PIECES	
973567	1/2"	6	6	6	6	6	6	6	6	6	6	6	20	66	---
973568	3/4"	6	6	6	6	6	6	6	6	6	6	6	27	66	---
973569	1"	6		6	6	6	6	6	6	6	6	6	34	60	---
GALV.		**LENGTH**											**WT.**	**TOTAL**	
		CLOSE	**1-1/2"**	**2"**	**2-1/2"**	**3"**	**3-1/2"**	**4"**	**4-1/2"**	**5"**	**5-1/2"**	**6"**	**LBS.**	**PIECES**	
973667	1/2"	6	6	6	6	6	6	6	6	6	6	6	20	66	---
973668	3/4"	6	6	6	6	6	6	6	6	6	6	6	27	66	---
973669	1"	6		6	6	6	6	6	6	6	6	6	34	60	---

STEEL TOTE TRAYS

PART #	SIZE	CAPACITY	LIST PRICE
990781	1/2"	77pcs	---
990782	3/4"	66pcs	---
990783	1"	50pcs	---
990786	1-1/4"	40pcs	---
990784	1-1/2"	30pcs	---
990785	2"	27pcs	---

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EXTRA HEAVY SEAMLESS STEEL PIPE NIPPLES

1/8" - 27

1/8" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.094 - GradeB - Test Pressure850 PSI - Thread Length 0.39

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59001SMLS	x Close	40/480	0.02	---
59002SMLS	x 1-1/2"	40/480	0.03	---
59003SMLS	x 2"	100/400	0.05	---
59004SMLS	2-1/2"	100/400	0.06	---
59005SMLS	x 3"	40/240	0.08	---
59006SMLS	x 3-1/2"	40/240	0.09	---
59007SMLS	x 4"	40/240	0.11	---
59009SMLS	x 5"	40/120	0.12	---
59010SMLS	x 5-1/2"	40/120	0.13	---
59011SMLS	x 6"	40/80	0.16	---

1/4"-18

1/4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.119 - Grade B - Test Pressure 850 PSI - Thread Length 0.59

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59020SMLS	x Close (7/8")	40 / 480	0.03	---
59021SMLS	x 1-1/2"	100 / 400	0.06	---
59022SMLS	x 2"	100 / 400	0.08	---
59023SMLS	x 2-1/2"	80 / 320	0.10	---
59024SMLS	x 3"	40 / 240	0.12	---
59025SMLS	x 3-1/2"	40 / 240	0.15	---
59026SMLS	x 4"	40 / 240	0.17	---
59027SMLS	x 4-1/2"	40 / 120	0.19	---
59028SMLS	x 5"	40 / 120	0.21	---
59029SMLS	x 5-1/2"	40 / 80	0.24	---
59030SMLS	x 6"	40 / 80	0.26	---
59031SMLS	x 7"	40 / 80	0.30	---
59032SMLS	x 8"	40 / 80	0.35	---
59033SMLS	x 9"	40 / 80	0.39	---
59034SMLS	x 10"	40 / 80	0.44	---
59036SMLS	x 12"	40 / 80	0.53	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

BLACK SCH 80 SEAMLESS
NIPPLES AND FITTINGS

3/8"-18

3/8" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.126 - Grade B - Test Pressure 850 PSI - Thread Length 0.6

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59040SMLS	X Close (3/8")	40 / 480	0.05	---
59041SMLS	x 1-1/2"	100 / 400	0.08	---
59042SMLS	x 2"	100 / 400	0.11	---
59043SMLS	x 2-1/2"	80 / 320	0.14	---
59044SMLS	x 3"	40 / 240	0.17	---
59045SMLS	x 3-1/2"	40 / 240	0.20	---
59046SMLS	x 4"	40 / 240	0.23	---
59047SMLS	x 4-1/2"	40 / 160	0.26	---
59048SMLS	x 5"	40 / 120	0.29	---
59049SMLS	x 5-1/2"	40 / 120	0.32	---
59050SMLS	x 6"	40 / 80	0.35	---
59052SMLS	x 8"	40/80	0.47	---
59054SMLS	x 10"	40/80	0.53	---
59056SMLS	x 12"	40/80	0.65	---

1/2" - 14

1/2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.147 - Grade B - Test Pressure 850 PSI - Thread Length 0.78

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59060SMLS	X Close (1-1/8")	40 / 480	0.07	---
59061SMLS	x 1-1/2"	100 / 400	0.11	---
59062SMLS	x 2"	100 / 400	0.15	---
59063SMLS	x 2-1/2"	80 / 320	0.20	---
59064SMLS	x 3"	40 / 240	0.24	---
59065SMLS	x 3-1/2"	40 / 240	0.29	---
59066SMLS	x 4"	40 / 240	0.33	---
59067SMLS	x 4-1/2"	40 / 160	0.38	---
59068SMLS	x 5"	40 / 120	0.42	---
59069SMLS	x 5-1/2"	40 / 120	0.47	---
59070SMLS	x 6"	40 / 80	0.51	---
59071SMLS	x 7"	40 / 80	0.60	---
59072SMLS	x 8"	40 / 80	0.69	---
59073SMLS	x 9"	40/80	0.73	---
59074SMLS	x 10"	40 / 80	0.88	---
59075SMLS	x 11"	32/64	0.96	---
59076SMLS	x 12"	32 / 64	1.06	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

3/4" - 14

3/4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.154 - Grade B - Test Pressure 850 PSI - Thread Length 0.79

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59080SMLS	X Close (1-3/8")	40/240	0.13	---
59081SMLS	x 1-1/2"	100/200	0.15	---
59082SMLS	x 2"	100/200	0.21	---
59083SMLS	x 2-1/2"	40/160	0.27	---
59084SMLS	x 3"	40/160	0.33	---
59085SMLS	x 3-1/2"	40/120	0.39	---
59086SMLS	x 4"	40/120	0.45	---
59087SMLS	x 4-1/2"	40/120	0.51	---
59088SMLS	x 5"	40/120	0.57	---
59089SMLS	x 5-1/2"	48/96	0.64	---
59090SMLS	x 6"	40/80	0.69	---
59091SMLS	x 7"	40/80	0.82	---
59092SMLS	x 8"	40/80	0.94	---
59094SMLS	x 10"	32/64	1.19	---
59096SMLS	x 12"	24/48	1.44	---

1" - 11 1/2

1" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.179 - Grade B - Test Pressure 850 PSI - Thread Length 0.98

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59100SMLS	X Close (1-1/2")	40 / 160	0.21	---
59101SMLS	x 2"	40 / 120	0.30	---
59102SMLS	x 2-1/2"	40 / 120	0.37	---
59103SMLS	x 3"	40 / 80	0.47	---
59104SMLS	x 3-1/2"	40 / 80	0.56	---
59105SMLS	x 4"	40 / 80	0.65	---
59106SMLS	x 4-1/2"	40 / 80	0.74	---
59107SMLS	x 5"	40 / 80	0.83	---
59108SMLS	x 5-1/2"	40 / 80	0.92	---
59109SMLS	x 6"	32 / 64	1.01	---
59110SMLS	x 7"	20 / 40	1.19	---
59111SMLS	x 8"	20 / 40	1.37	---
59112SMLS	x 9"	20 / 40	1.55	---
59113SMLS	x 10"	12 / 24	1.74	---
59114SMLS	x 11"	12 / 24	1.92	---
59115SMLS	x 12"	12 / 24	2.10	---

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For more information, visit www.P65Warnings.ca.gov

BLACK SCH 80 SEAMLESS

NIPPLES AND FITTINGS

1-1/4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.191 - Grade B - Test Pressure 1900 PSI - Thread Length 1.01

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59120SMLS	X Close (1-5/8")	40 / 80	0.31	---
59121SMLS	x 2"	40 / 80	0.42	---
59122SMLS	x 2-1/2"	40 / 80	0.52	---
59123SMLS	x 3"	40 / 80	0.64	---
59124SMLS	x 3-1/2"	24 / 48	0.77	---
59125SMLS	x 4"	24 / 48	0.90	---
59126SMLS	x 4-1/2"	24 / 48	1.02	---
59127SMLS	x 5"	20 / 40	1.15	---
59128SMLS	x 5-1/2"	20 / 40	1.27	---
59129SMLS	x 6"	20 / 40	1.40	---
59130SMLS	x 7"	20 / 40	1.65	---
59131SMLS	x 8"	12 / 24	1.90	---
59132SMLS	x 9"	12 / 24	2.15	---
59133SMLS	x 10"	12 / 24	2.40	---
59134SMLS	x 11"	8 / 16	2.65	---
59135SMLS	x 12"	8 / 16	2.90	---

1-1/2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.2 - Grade B - Test Pressure 1900 PSI - Thread Length 1.03

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59140SMLS	X Close (1-3/4")	40 / 80	0.41	---
59141SMLS	x 2"	32 / 64	0.51	---
59142SMLS	x 2-1/2"	32 / 64	0.64	---
59143SMLS	x 3"	32 / 64	0.78	---
59144SMLS	x 3-1/2"	20 / 40	0.94	---
59145SMLS	x 4"	20 / 40	1.09	---
59146SMLS	x 4-1/2"	20 / 40	1.23	---
59147SMLS	x 5"	20 / 40	1.39	---
59148SMLS	x 5-1/2"	16 / 32	1.54	---
59149SMLS	x 6"	12 / 24	1.69	---
59150SMLS	x 7"	12 / 24	2.00	---
59151SMLS	x 8"	12 / 24	2.30	---
59152SMLS	x 9"	12 / 24	2.61	---
59153SMLS	x 10"	8 / 16	2.90	---
59154SMLS	x 11"	8 / 16	3.20	---
59155SMLS	x 12"	8 / 16	3.51	---

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2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.218 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59160SMLS	X Close (2")	32/64	0.30	---
59161SMLS	x 2-1/2"	20 / 40	0.80	---
59162SMLS	x 3"	20 / 40	1.10	---
59163SMLS	x 3-1/2"	12 / 24	1.31	---
59164SMLS	x 4"	12 / 24	1.52	---
59165SMLS	x 4-1/2"	12 / 24	1.72	---
59166SMLS	x 5"	12 / 24	1.94	---
59167SMLS	x 5-1/2"	12 / 24	2.15	---
59168SMLS	x 6"	8 / 16	2.35	---
59169SMLS	x 7"	8 / 16	2.78	---
59170SMLS	x 8"	8 / 16	3.19	---
59171SMLS	x 9"	1 / 8	3.62	---
59172SMLS	x 10"	1 / 8	4.03	---
59173SMLS	x 11"	1 / 8	4.44	---
59174SMLS	x 12"	1 / 8	4.87	---
59196SMLS	x 18"	1/1	7.22	---
59197SMLS	x 24"	1/1	9.74	---
59198SMLS	x 36"	1/1	14.61	---
59199SMLS	x 48"	1/1	19.48	---

2-1/2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.276 - Grade B - Test Pressure 2500 PSI - Thread Length 1.57

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59180SMLS	x Close (2-1/2")	1 / 16	1.25	---
59181SMLS	x 3"	1 / 16	1.57	---
59182SMLS	x 3-1/2"	1 / 16	1.82	---
59183SMLS	x 4"	1 / 16	2.15	---
59184SMLS	x 4-1/2"	1 / 16	1.75	---
59185SMLS	x 5"	1 / 16	2.78	---
59186SMLS	x 5-1/2"	1 / 8	2.25	---
59187SMLS	x 6"	1 / 8	3.41	---
59188SMLS	x 7"	1 / 8	3.89	---
59189SMLS	x 8"	1 / 8	4.69	---
59190SMLS	x 9"	1 / 8	5.34	---
59191SMLS	x 10"	1 / 6	5.97	---
59192SMLS	x 11"	1 / 6	4.89	---
59193SMLS	x 12"	1 / 5	7.26	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK SCH 80 SEAMLESS

NIPPLES AND FITTINGS

3" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.3 - Grade B - Test Pressure 2500 PSI - Thread Length 1.64

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-200SMLS	X Close (2-5/8")	1 / 16	1.79	---
59-201SMLS	x 3"	1 / 16	2.11	---
59-202SMLS	x 3-1/2"	1 / 16	2.55	---
59-203SMLS	x 4"	1 / 8	2.89	---
59-204SMLS	x 4-1/2"	1 / 8	3.30	---
59-205SMLS	x 5"	1 / 8	3.73	---
59-206SMLS	x 5-1/2"	1 / 8	4.17	---
59-207SMLS	x 6"	1 / 8	4.57	---
59-208SMLS	x 7"	1 / 6	5.45	---
59-209SMLS	x 8"	1 / 6	6.29	---
59-210SMLS	x 9"	1 / 6	7.17	---
59-211SMLS	x 10"	1 / 4	8.01	---
59-212SMLS	x 11"	1 / 4	8.85	---
59-213SMLS	x 12"	1 / 4	9.72	---

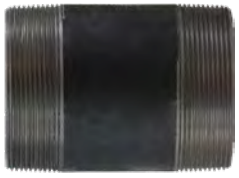
4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.337 - Grade B - Test Pressure 2800 PSI - Thread Length 1.74

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59220SMLS	X Close (2-7/8")	1 / 8	2.91	---
59221SMLS	x 4"	1 / 6	4.26	---
59223SMLS	x 5"	1 / 5	5.49	---
59224SMLS	x 5-1/2"			
59225SMLS	x 6"	1 / 5	6.72	---
59226SMLS	x 7"	1/3	7.33	---
59227SMLS	x 8"	1 / 3	9.23	---
59228SMLS	9"			
59229SMLS	x 10"	1 / 3	11.73	---
59231SMLS	x 12"	1 / 3	14.24	---

SCHEDULE 80 SEAMLESS

6" DIAMETER



8" DIAMETER

PART #		LENGTH	BOX/CASE	APPROX. WT. LBS. 6"	8"	PART #	
59300SMLS	---	X Close	2	3.57	4.62	59-320SMLS	---
59301SMLS	---	x 6"	2	14.29	16.91	59-322SMLS	---
59305SMLS	---	x 8"	2	19.05	22.54	59-324SMLS	---
59306SMLS	---	x 10"	2	23.81	27.47	59-326SMLS	---
59308SMLS	---	x 12"	2	28.57	34.18	59-328SMLS	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

1/2" DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS

Wall Thickness 0.294 - Grade B - Test Pressure 1000 PSI - Thread Length 0.79

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59060SMLSXX	x Close	100 / 200	0.31	---
59062SMLSXX	x 2"	100 / 200	0.58	---
59064SMLSXX	x 3"	50 / 100	0.62	---
59066SMLSXX	x 4"	50 / 100	0.66	---
59070SMLSXX	x 6"	25 / 50	0.75	---

3/4" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS

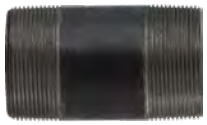
Wall Thickness 0.308 - Grade B - Test Pressure 1000 PSI - Thread Length 0.79

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59080SMLSXX	x Close	40/240	0.55	---
59082SMLSXX	x 2"	50 / 100	0.62	---
59086SMLSXX	x 4"	25 / 50	0.68	---
59090SMLSXX	x 6"	25 / 50	0.71	---

1" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS

Wall Thickness 0.358 - Grade B - Test Pressure 1000 PSI - Thread Length 0.98

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59100SMLSXX	x close	50 / 100	0.88	---
59101SMLSXX	x 2"	50 / 100	1.07	---
59103SMLSXX	x 3"	20/40	1.10	---
59105SMLSXX	x 4"	20 / 40	1.14	---
59109SMLSXX	x 6"	20 / 40	1.75	---
59111SMLSXX	x 8"	1 / 25	1.88	---
59115SMLSXX	x 12"	1 / 15	2.15	---



2" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS

Wall Thickness 0.436 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59160SMLSXX	x close	1 / 25	1.36	---
59161SMLSXX	x 2-1/2"	1 / 20	1.67	---
59162SMLSXX	x 3"	1 / 20	2.09	---
59163SMLSXX	x 3-1/2"	1 / 12	2.51	---
59164SMLSXX	x 4"	1 / 12	2.86	---
59166SMLSXX	x 5"	1/12	3.04	---
59168SMLSXX	x 6"	1 / 11	3.20	---
59169SMLSXX	x 7"	1 / 8	4.35	---
59170SMLSXX	x 8"	1 / 8	5.86	---
59171SMLSXX	x 9"	1 / 8	6.58	---
59172SMLSXX	x 10"	1 / 8	7.31	---
59174SMLSXX	x 12"	1 / 8	9.34	---
59179SMLSXX	x 24"	1 / 1	14.77	---

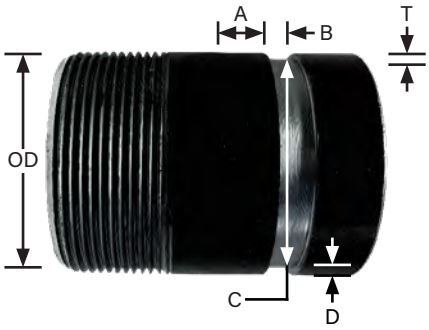
WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

SCH 40 AND SCH 80 GROOVE NIPPLES

NIPPLES AND FITTINGS

THREAD X GROOVE

SCH 40



SCH 80

2" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	LIST PRICE
57162TV	---	50	0.70	x 3	1.03	40	59162TV	---
57164TV	---	30	0.97	x 4	1.40	24	59164TV	---
57168TV	---	20	1.64	x 6	2.41	16	59168TV	---
57170TV	---	20	2.15	x 8	3.20	16	59170TV	---
57172TV	---	10	2.80	x 10	3.65	8	59172TV	---
57174TV	---	10	3.45	x 12	4.01	8	59174TV	---

3" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	LIST PRICE
57201TV	---	20	1.26	x 3	2.01	16	59201TV	---
57203TV	---	10	1.80	x 4	3.01	8	59203TV	---
57207TV	---	10	3.17	x 6	4.87	8	59207TV	---
57209TV	---	8	4.13	x 8	5.86	6	59209TV	---
57211TV	---	5	5.48	x 10	6.19	4	59211TV	---
57213TV	---	5	6.24	x 12	6.37	4	59213TV	---

4" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	LIST PRICE
57222TV	---	8	2.40	x 3	4.11	6	59222TV	---
57223TV	---	8	2.52	x 4	4.15	6	59221TV	---
57227TV	---	6	4.30	x 6	6.52	5	59225TV	---
57229TV	---	4	5.63	x 8	7.18	3	59229TV	---
57332TV	---	4	7.90	x 10	11.74	3	59231TV	---
57228TV	---	4	8.25	x 12	14.24	3	59227TV	---

NOMINAL IPS PIPE SIZE	O.D. ACTUAL	GASKET SEAT "A"	GROOVE WIDTH "B"	GROOVE DIAM-ETER "C"	ACTUAL GROOVE DEPTH "D"
2	2.375	0.625	0.312	2.250	0.062
3	3.500	0.625	0.312	3.344	0.078
4	4.500	0.625	0.375	4.334	0.083

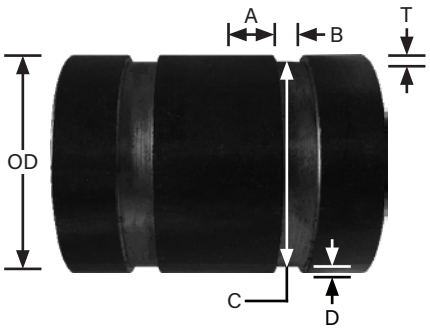
WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK SCH 40 AND SCH 80 SEAMLESS GROOVE NIPPLES

NIPPLES AND FITTINGS

GROOVE X GROOVE

SCH 40



SCH 80

2" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	LIST PRICE
57162V	---	50	0.70	x 3	1.03	40	59162V	---
57164V	---	30	0.97	x 4	1.40	24	59164V	---
57168V	---	20	1.64	x 6	2.41	16	59168V	---
57170V	---	20	2.15	x 8	3.20	16	59170V	---
57172V	---	10	2.80	x 10	3.65	8	59172V	---
57174V	---	10	3.45	x 12	4.01	8	59174V	---

3" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	LIST PRICE
57201V	---	20	1.26	x 3	2.01	16	59201V	---
57203V	---	10	1.80	x 4	3.01	8	59203V	---
57207V	---	10	3.17	x 6	4.87	8	59207V	---
57209V	---	8	4.13	x 8	5.86	6	59209V	---
57211V	---	5	5.48	x 10	6.19	4	59211V	---
57213V	---	5	6.24	x 12	6.37	4	59213V	---

4" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	LIST PRICE
57223V	---	8	2.52	x 4	4.15	6	59221V	---
57227V	---	6	4.35	x 6	6.52	5	59225V	---
57229V	---	4	5.63	x 8	7.18	3	59227V	---
57332V	---	4	7.90	x 10	11.74	3	59229V	---
57228V	---	4	8.25	x 12	14.24	3	59231V	---

SEAMLESS SCH 40 GROOVE X BEVEL NIPPLES

PART #	DIA. X LENGTH	
57162GBS	2 x 3	---
57201GBS	3 x 3	---
57222GBS	4 x 3	---
57400GBS	8 x 3	---
57500GBS	10 x 3	---
57600GBS	12 x 3	---

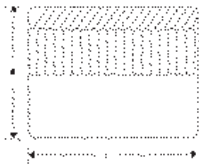
WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

MERCHANT COUPLINGS

Product Specifications
Welded steel couplings both galvanized and black in diameters from 1/8" up to 4".

Technical Specifications
Standards: Product complies with ASTM A865 and ANSI B1.20.1 for threading, dimensions and pipe specifications. Federal Spec WW-P-404
Pipe: Complies with ASTM A-53 milltested schedule 40 and 80. Meets ANSI B36.1. All pipe is hydrostatic tested.
Galvanized: Zinc coating applied by hot dipping. Galvanized complying with ASTM-A-123.

MERCHANT COUPLINGS



• Straight threads thru 2"

PART # GALV	LIST PRICE	SIZE	PART # BLACK	LIST PRICE
64770	---	1/8"	65770	---
64771	---	1/4"	65771	---
64772	---	3/8"	65772	---
64773	---	1/2"	65773	---
64774	---	3/4"	65774	---
64775	---	1"	65775	---
64776	---	1-1/4"	65776	---
64777	---	1-1/2"	65777	---
64778	---	2"	65778	---
64779	---	2-1/2"	65779	---
64780	---	3"	65780	---
64781	---	4"	65781	---
		5"	65782	---
		6"	65783	---

HALF MERCHANT COUPLINGS

• Straight threads thru 2"

PART # GALV	LIST PRICE	SIZE	PART # BLACK	LIST PRICE
		1/8"	65770H	
		1/4"	65771H	---
		3/8"	65772H	---
64773H	---	1/2"	65773H	---
64774H	---	3/4"	65774H	---
64775H	---	1"	65775H	---
64776H	---	1-1/4"	65776H	---
64777H	---	1-1/2"	65777H	---
64778H	---	2"	65778H	---
		2-1/2"	65779H	---
64780H	---	3"	65780H	---
64781H	---	4"	65781H	---

#304 STAINLESS STEEL MERCHANT COUPLINGS

PART #	SIZE	LIST PRICE
61775	1	---
61776	1-1/4	---
61777	1-1/2	---
61778	2	---

Also available:
Extra Heavy Merchant Couplings

MERCHANT COUPLINGS SPECIFICATIONS

SIZE	OUTSIDE DIAM.	LENGTH INCHES	WEIGHT 100 PCS APPROX. POUNDS	QUANTITY PER BOX	THREADS PER INCH	THREADS TYPE
1/8"	.59"	.78	3.5	1000	27	Straight
1/4"	.73"	1.18	7.5	500	18	Straight
3/8"	.86"	1.18"	9	600	18	Straight
1/2"	1.063"	1-9/16"	13.0	100	14	Straight
3/4"	1.313"	1-5/8"	28.3	50	14	Straight
1"	1.576"	2"	40.1	30	11-1/2	Straight
1-1/4"	1.900"	2-1/16"	49.5	25	11-1/2	Straight
1-1/2"	2.17"	2-3/64"	71.48	25	11-1/2	Straight
2"	2.750"	2-1/8"	112.0	20	11-1/2	Straight
2-1/2"	3.250"	3-1/8"	231.2	8	8	Taper Tapped
3"	4.000"	3-1/4"	353.8	5	8	Taper Tapped
4"	5.000"	3-1/2"	471.8	4	8	Taper Tapped
6"	7.32	4"	1000.05	4	8	Taper Tapped

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

API LINE COUPLINGS

A105 BLACK STEEL TAPER TAPPED COUPLINGS

Product Specifications
These couplings are manufactured in accordance with American Petroleum Institute specifications 5L & 5B.
All couplings are phosphated.
All sizes are taper tapped 3/4" per foot on the diameter.

*Certified by the American Petroleum Institute

A105
- **Black Steel**
- **API line API SL**

- Each end has a short, unthreaded recess before the threads start.
- Use with sch 80 & sch. 160 nipples & pipe.
- Max. pressure: 3000PSI

API LINE PIPE COUPLINGS

PART #	NPT SIZE	THREADS PER INCH	OUTSIDE DIAMETER	LENGTH	UNIT WEIGHT	LIST PRICE
65770API	1/8"	27	0.563	1-1/16	0.04	---
65771API	1/4"	18	0.719	1-5/8	0.10	---
65772API	3/8"	18	0.875	1-5/8	0.13	---
65773API	1/2"	14	1.063	2-1/8	0.24	---
65774API	3/4"	14	1.313	2-1/8	0.35	---
65775API	1"	11.5	1.576	2-5/8	0.52	---
65776API	1-1/4"	11.5	2.054	2-3/4	1.00	---
65777API	1-1/2"	11.5	2.200	2-3/4	0.88	---
65778API	2"	11.5	2.875	2-7/8	1.83	---
65779API	2-1/2"	8	3.375	4-1/8	3.28	---
65780API	3"	8	4.000	4-1/4	4.09	---
65781API	4"	8	5.200	4-1/2	7.59	---
65783API	6"	8	7.390	4-5/8	12.92	---
65784API	8"	8	9.625	5-3/4	23.18	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

MALLEABLE FITTINGS

- Saturated steam pressure 150 PSI @ 350°F
- Max pressure 300 PSI @ 150°F
- Temp range -20°F to 350°F

ISO 9002 - CERTIFICATE OF QUALITY - UL/FM LISTED

Our quality fittings are made with care and attention to detail. With better molds we can reduce parting lines and rough edges resulting in better fluid flow. By using a low temperature galvanizing process the coating is more durable which means a longer lasting fitting. All Fittings are 100% Pressure Tested to 300# Class.

(Every fitting is subjected to an underwater fitness test to ensure the highest quality)

SPECIFICATIONS

• MATERIAL: ASTM A 197 - Cuppla Malleable Iron, ASTM A 153 - Hot dipped galvanizing • Coating ASTM A164 LS
• DIMENSIONS: ANSI B 16.3 - Malleable Iron threaded fittings, ANSI B 16.14 - Ferrous Pipe Plugs, Bushings etc..., ANSI B 16.39 - Malleable Iron threaded pipe unions.
• THREADS: ANSI B 2.1 or BS 21 ASME B1.20.1 • RoHS Compliant • Tapered Threads
• Pressure - Saturated steam 150 PSI @350°F: Max pressure 300 PSI - 150°F
• Temperature range -20 - 350°F

MALLEABLE IRON - ANSI B 16.3

F°	Class 150 PSIG	Sizes 1/4-1 300#	Sizes 1 1/4-2 300#	Sizes 2 1/4-3 300#
-200-150	300	2000	1500	1000
200	265	1785	1350	910
250	225	1575	1200	825
300	185	1360	1050	735
366*	150	1150	900	650

*Permissible for service temperature up to 366°F, reflecting the temperature of saturated steam at 150 psig.

STEEL FITTINGS

• 1010 Carbon Steel, 3/4 taper threads (see hydraulic section for 7/8 taper threads.)
• Finish or coating • Black Dipped in rust resistant
• Galvanized, Zinc Plated (Inside and Out)

300lb MALLEABLE FITTINGS

Max. pressure: 300 psi WOG @ 72°F; 150 psi WOG saturated steam

• Meet ANSI/ ASME B1.20.1 standards
• Black meet ASTM 197 standards

BULL PLUGS AND SWAGES

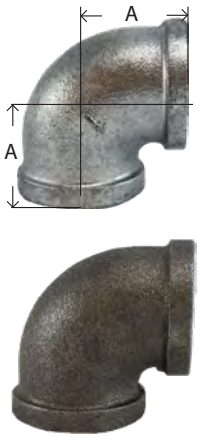
FLANGES

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

ELBOWS 90°

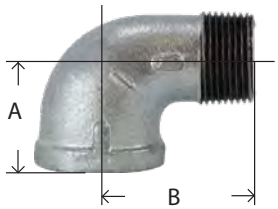


Part # Galvanized	List Price	Size	A	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64100	---	1/8″	0.69	50/600	0.07	65100	---
64101	---	1/4″	0.81	35/420	0.10	65101	---
64102	---	3/8″	0.95	90/360	0.16	65102	---
64103	---	1/2″	1.12	50/200	0.23	65103	---
64104	---	3/4″	1.31	35/105	0.35	65104	---
64105	---	1″	1.50	20/60	0.57	65105	---
64106	---	1-1/4″	1.75	20/40	0.86	65106	---
64107	---	1-1/2″	1.94	15/30	1.31	65107	---
64108	---	2″	2.25	8/16	1.79	65108	---
64109	---	2-1/2″	2.70	6/12	3.35	65109	---
64110	---	3″	3.08	4/8	5	65110	---
64112	---	4″	3.79	1/2	9.02	65112	---
64114	---	6″	5.13	1/1	23.68	65114	---
		8"			41.1	65115	---

REDUCING ELBOWS 90°

PART # GALVANIZED	LIST PRICE	SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64122	---	3/8″ x 1/4″	0.88	0.90	90/360	0.16	65122	---
64123	---	1/2″ x 1/4″	0.97	0.98	60/240	0.21	65123	---
64124	---	1/2″ x 3/8″	1.04	1.03	60/240	0.24	65124	---
64126	---	3/4″ x 3/8″	1.12	1.13	40/160	0.31	65126	---
64127	---	3/4″ x 1/2″	1.20	1.22	40/160	0.44	65127	---
64130	---	1″ x 1/2″	1.26	1.40	25/100	0.52	65130	---
64131	---	1″ x 3/4″	1.37	1.45	50/100	0.58	65131	---
64133	---	1-1/4″ x 3/4″	1.45	1.62	15/120	0.79	65133	---
64134	---	1-1/4″ x 1″	1.58	1.67	10/40	0.80	65134	---
64136	---	1-1/2″ x 3/4″	1.52	1.75	10/40	0.88	65136	---
64137	---	1-1/2″ x 1″	1.65	1.80	10/40	1.07	65137	---
64138	---	1-1/2″ x 1-1/4″	1.82	1.88	15/30	1.12	65138	---
		2" x 3/4"					65139	
64140	---	2″ x 1″	1.73	2.02	14/28	1.41	65140	---
64141	---	2″ x 1-1/4″	1.90	2.10	10/20	1.53	65141	---
64142	---	2″ x 1-1/2″	2.02	2.16	10/20	1.65	65142	---
64145	---	2-1/2″ x 1-1/2″	2.16	2.51	6/12	2.97	65145	---
64146	---	2-1/2″ x 2″	2.39	2.60	6/12	3.18	65146	---
64148	---	3″ x 1-1/2″	2.28	2.83	6/18	4.54	65148	---

90° STREET ELBOWS



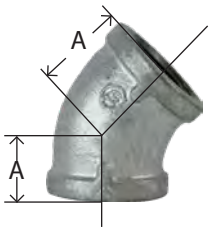
PART # GALVANIZED	LIST	SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64160	---	1/8″	0.69	1.00	60/720	.06	65160	---
64161	---	1/4″	0.80	1.17	35/420	.10	65161	---
64162	---	3/8″	0.95	1.48	40/240	.15	65162	---
64163	---	1/2″	1.10	1.59	60/180	.22	65163	---
64164	---	3/4″	1.28	1.85	35/105	.39	65164	---
64165	---	1″	1.47	2.10	35/105	.60	65165	---
64166	---	1-1/4″	1.75	2.57	25/50	.95	65166	---
64167	---	1-1/2″	1.90	2.63	9/27	1.37	65167	---
64168	---	2″	2.21	3.19	8/16	2.25	65168	---
64169	---	2-1/2″	2.65	3.78	5/10	3.32	65169	---
64170	---	3″	3.02	4.42	4/8	5.27	65170	---
64171	---	4″	3.72	5.57	2/4	8.94	65171	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

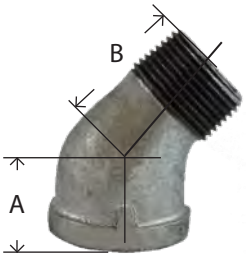
NIPPLES AND FITTINGS

ELBOWS 45°



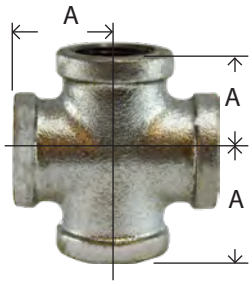
PART # GALVA-NIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64180	---	1/8"	0.63	50/600	.07	65180	---
64181	---	1/4"	0.73	30/360	.10	65181	---
64182	---	3/8"	0.80	75/300	.14	65182	---
64183	---	1/2"	0.88	50/200	.21	65183	---
64184	---	3/4"	0.98	40/120	.33	65184	---
64185	---	1"	1.12	20/60	.50	65185	---
64186	---	1-1/4"	1.29	20/40	.74	65186	---
64187	---	1-1/2"	1.43	10/30	1.01	65187	---
64188	---	2"	1.68	12/24	1.53	65188	---
64189	---	2-1/2"	1.95	9/18	2.78	65189	---
64190	---	3"	2.17	1/10	4.49	65190	---
64191	---	4"	2.61	2/4	7.44	65191	---
64192	---	6"	3.46	1/1	18.63	65192	---
		8"			26.40	65194	---

45° STREET ELBOWS



PART # GALVA-NIZED	LIST PRICE	SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64200	---	1/8"	0.63	0.83	70/840	.05	65200	---
64201	---	1/4"	0.73	0.94	40/480	.09	65201	---
64202	---	3/8"	0.80	1.03	100/400	.14	65202	---
64203	---	1/2"	0.86	1.30	75/225	.19	65203	---
64204	---	3/4"	0.96	1.48	40/120	.28	65204	---
64205	---	1"	1.10	1.69	25/75	.48	65205	---
64206	---	1-1/4"	1.26	1.87	10/40	.71	65206	---
64207	---	1-1/2"	1.40	2.05	10/30	1.02	65207	---
64208	---	2"	1.65	2.38	12/24	1.68	65208	---
64209	---	2-1/2"	1.95	2.72	6/12	2.69	65209	---
64210	---	3"	2.17	3.16	3/6	4.61	65210	---
64211	---	4"	2.61	3.90	2/4	7.74	65211	---

CROSSES



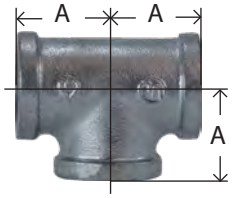
PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64390	---	1/8"	0.65	50/600	.14	65390	---
64391	---	1/4"	0.80	60/240	.17	65391	---
64392	---	3/8"	0.95	50/150	.26	65392	---
64393	---	1/2"	1.12	30/90	.42	65393	---
64394	---	3/4"	1.31	20/60	.64	65394	---
64395	---	1"	1.50	15/30	.98	65395	---
64396	---	1-1/4"	1.75	10/20	1.45	65396	---
64397	---	1-1/2"	1.94	8/16	1.90	65397	---
64398	---	2"	2.25	5/10	2.96	65398	---
64399	---	2-1/2"	2.71	4/8	5.49	65399	---
64400	---	3"	3.06	2/4	7.71	65400	---
		4"		1/1	14.77	65401	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

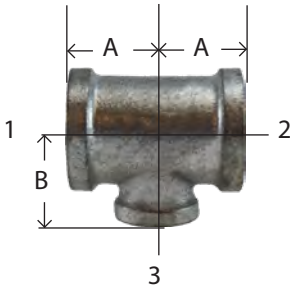
TEES



PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64250	---	1/8″	0.69	120/480	.11	65250	---
64251	---	1/4″	0.81	75/300	.15	65251	---
64252	---	3/8″	0.95	45/180	.22	65252	---
64253	---	1/2″	1.12	40/120	.36	65253	---
64254	---	3/4″	1.31	35/70	.48	65254	---
64255	---	1″	1.50	20/40	.83	65255	---
64256	---	1-1/4″	1.75	14/28	1.29	65256	---
64257	---	1-1/2″	1.94	12/24	1.66	65257	---
64258	---	2″	2.26	8/16	2.50	65258	---
64259	---	2-1/2″	2.70	4/8	4.45	65259	---
64260	---	3″	3.08	1/6	6.72	65260	---
64261	---	4″	3.79	1/2	11.31	65261	---
64262	---	6″	5.13	1/1	30.75	65262	---
		8"			37.85	65264	---

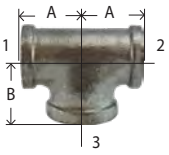
REDUCING TEES

(SAME SIZE ON RUN, REDUCING ON BRANCH)



PART # GALVANIZED	LIST PRICE	SIZE (1&2) X 3	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64273	---	3/8″ x 1/4″	0.81	0.90	25/300	.18	65273	---
64276	---	1/2″ x 1/4″	0.97	0.98	40/160	.24	65276	---
64279	---	1/2″ x 3/8″	1.04	1.03	40/160	.35	65279	---
64282	---	3/4″ x 1/4″	1.05	1.08	25/100	.43	65282	---
64283	---	3/4″ x 3/8″	1.12	1.13	25/100	.39	65283	---
64286	---	3/4″ x 1/2″	1.20	1.18	20/80	.49	65286	---
64268	---	1″ x 1/4″	1.11	1.22	20/80	.51	65268	---
64269	---	1″ x 3/8″	1.18	1.27	15/60	.55	65269	---
64291	---	1″ x 1/2″	1.26	1.40	15/60	.63	65291	---
64298	---	1″ x 3/4″	1.37	1.45	12/48	.71	65298	---
64301	---	1-1/4″ x 1/2″	1.34	1.45	20/40	.91	65301	---
64303	---	1-1/4″ x 3/4″	1.45	1.62	20/40	.99	65303	---
64306	---	1-1/4″ x 1″	1.58	1.66	20/40	1.07	65306	---
64721	---	1-1/2" x 1/2"				1.12	65721	---
64316	---	1-1/2″ x 3/4″	1.41	1.75	15/30	1.23	65316	---
64318	---	1-1/2″ x 1″	1.65	1.88	10/30	1.33	65318	---
64322	---	1-1/2″ x 1-1/4″	1.65	1.88	12/24	1.52	65322	---
64327	---	2″ x 1/2″	1.49	1.88	10/20	1.64	65327	---
64328	---	2″ x 3/4″	1.60	1.97	10/20	1.71	65328	---
64330	---	2″ x 1″	1.73	2.02	10/20	1.88	65330	---
64334	---	2″ x 1-1/4″	1.86	2.06	8/16	2.03	65334	---
64336	---	2″ x 1-1/2″	1.98	2.12	8/16	2.22	65336	---
		2-1/2" x 1"				2.85	65342	---
64343	---	2-1/2″ x 1-1/2″	2.16	2.51	5/10	2.97	65343	---
64729	---	3" x 1"	2.00	2.00	3/6	4.15		
		3" x 1-1/2"				5.19	65359	---
64351	---	3″ x 2″	2.52	2.89	3/6	5.35	65351	---

BULLHEAD TEES



PART # GALVANIZED	LIST PRICE	SIZE (1&2) X 3	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64280	---	1/2" x 3/4"	1.22	1.20	30/120	.4	65280	---
64733	---	1/2″ x 1″	1.36	1.26	25/100	.50	65733	---
64289	---	3/4″ x 1″	1.45	1.37	20/120	.60	65289	---
64299	---	1″ x 1-1/4″	1.67	1.58	15/30	.96	65299	---
64300	---	1″ x 1-1/2″	1.80	1.65	9/36	1.11	65300	---
64317	---	1-1/4″ x 1-1/2″	1.88	1.82	12/24	1.07	65317	---
64319	----	1-1/2″ x 2″	2.12	1.98	8/32	2.10	65-319	---
65335		2" x 1¼" x 2"						

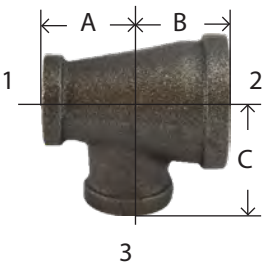
WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

REDUCING TEES

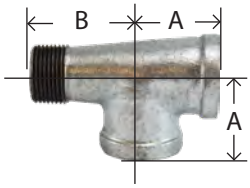
REDUCING ON RUN



PART #	SIZE 1 X 2 X 3	A	B	C	BOX/ CASE	APPROX. WT. LBS.	LIST	PART # BLACK
64287	3/4" x 1/2" x 1/2"	1.18	1.18	1.20	25/100	0.39	---	65287
64288	3/4" x 1/2" x 3/4"	1.28	1.20	1.28	20/80	0.49	---	65288
	1" x 1/2" x 1/2"	1.31	1.22	1.31	20/80	0.51	---	65292
	1" x 1/2" x 3/4"	1.22	1.37	1.45	20/80	0.53	---	65293
64294	1" x 1/2" x 1"	1.40	1.50	1.50	15/60	0.54	---	65294
	1" x 3/4" x 1/2"	1.20	1.26	1.40	20/80	0.58	---	65295
64296	1" x 3/4" x 3/4"	1.34	1.28	1.42	15/60	0.63	---	65296
64297	1" x 3/4" x 1"	1.45	1.50	1.50	15/60	0.62	---	65297
	1-1/4" x 1/2" x 1/2"							65304
	1-1/4" x 1/2" x 1"							65311
	1-1/4" x 1/2" x 1¼"							65314
	1-1/4" x 3/4" x 3/4"	1.31	1.45	1.64	10/40	0.66	---	65347
	1-1/4" x 3/4" x 1"							65348
	1-1/4" x 3/4" x 1-1/4"	1.62	1.75	1.75	10/40	1.14	---	65305
64309	1-1/4" x 1"x 1"	1.55	1.47	1.63	20/40	1.00	---	65309
	1-1/4" x 3/4" x 1/2"	1.31	1.45	1.64	20/40	1.05	---	65346
	1-1/4" x 1" x 1/2"	1.26	1.34	1.53	20/40	1.10	---	65349
	1-1/4" x 1" x 3/4"						---	65350
	1-1/4" x 1" x 1-1/4"	1.30	1.36	1.44	15/30	1.21	---	65310
	1-1/2" x 3/4" x 1-1/2"							65281
64372	1-1/2" x 1" x 1"	1.50	1.65	1.78	15/30	1.28	---	65372
	1-1/2" x 1" x 1-1/2"							65323
	1-1/2" x 1-1/4" x 3/4"	1.43	1.52	1.25	15/30	1.30	---	65375
	1-1/2" x 1¼" x 1"							65325
	1-1/2" x 1-1/4" x 1-1/4"	1.75	1.82	1.88	15/30	1.35	---	65377
	2" x 3/4" x 2"						---	65267
	2" x 1" x 2"							65332
	2" x 1-1/4" x 1¼"							65302
	2" x 1-1/4" x 2"							65335
	2" x 1-1/2" x 1-1/4"	1.82	1.90	2.10	10/30	1.21	---	65312
	2" x 1-1/2" x 1-1/2"	1.94	2.02	2.16	10/30	1.79	---	65313

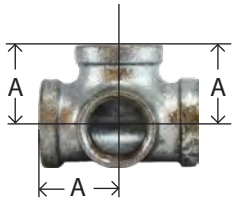
MALLEABLE SERVICE TEE

(STREET TEE)



PART # GALVANIZED	LIST PRICE	SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64363	---	1/2"	1.12	1.62	40/12	0.31	65363	---
64364	---	3/4"	1.31	1.89	25/75	0.49	65364	---

SIDE OUTLET TEES



PART # GALVANIZED	LIST	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64383	---	1/2"	1.12	25/100	.39	65383	---
64384	---	3/4"	1.31	15/60	.58	65384	---
64385	---	1"	1.50	20/40	.88	65385	---
64386	---	1-1/4"	1.75	12/24	1.32	65386	---
		1-1/2"	1.97	1/1	1.56	65387	---
		2"	2.29	1/1	1.81	65388	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

COUPLINGS

PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64410	---	1/8″	0.96	70/840	.07	65410	---
64411	---	1/4″	1.06	40/480	.09	65411	---
64412	---	3/8″	1.16	40/480	.13	65412	---
64413	---	1/2″	1.34	60/240	.19	65413	---
64414	---	3/4″	1.52	50/150	.28	65414	---
64415	---	1″	1.67	25/100	.45	65415	---
64416	---	1-1/4″	1.93	16/64	.66	65416	---
64417	---	1-1/2″	2.15	18/36	.84	65417	---
64418	---	2″	2.54	12/24	1.39	65418	---
64419	---	2-1/2″	2.88	8/16	2.42	65419	---
64420	---	3″	3.18	1/12	3.49	65420	---
64421	---	4″	3.69	3/6	5.81	65421	---
64422	---	6″	4.23	1/2	28.62	65422	---

REDUCING COUPLINGS

PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST
64430	---	1/4″ x 1/8″	1.00	50/600	.07	65430	---
64431	---	3/8″ x 1/8″	1.13	35/420	.09	65431	---
64432	---	3/8″ x 1/4″	1.13	30/360	.11	65432	---
64433	---	1/2″ x 1/8″	1.25	75/300	.13	65433	---
64434	---	1/2″ x 1/4″	1.25	75/300	.11	65434	---
64435	---	1/2″ x 3/8″	1.25	60/240	.15	65435	---
64439	---	3/4″ x 1/8″	1.44	60/240	.18	65439	---
64436	---	3/4″ x 1/4″	1.44	45/18	.19	65436	---
64437	---	3/4″ x 3/8″	1.44	45/18	.21	65437	---
64438	---	3/4″ x 1/2″	1.44	60/180	.25	65438	---
64459	---	1″ x 1/4″	1.69	45/135	.34	65459	---
64440	---	1″ x 3/8″	1.69	30/120	.35	65440	---
64441	---	1″ x 1/2″	1.69	30/120	.36	65441	---
64442	---	1″ x 3/4″	1.69	25/100	.39	65442	---
64460	---	1-1/4″ x 3/8″	2.06	25/75	.55	65460	---
64444	---	1-1/4″ x 1/2″	2.06	25/75	.53	65444	---
64445	---	1-1/4″ x 3/4″	2.06	25/75	.57	65445	---
64446	---	1-1/4″ x 1″	2.06	15/60	.61	65446	---
64443	---	1-1/2″ x 3/8″	2.31	20/60	.71	65443	---
64447	---	1-1/2″ x 1/2″	2.31	20/60	.69	65447	---
64448	---	1-1/2″ x 3/4″	2.31	15/60	.71	65448	---
64449	---	1-1/2″ x 1″	2.31	25/50	.78	65449	---
64450	---	1-1/2″ x 1-1/4″	2.31	12/48	.87	65450	---
64458	---	2″ x 1/2″	2.81	12/36	1.14	65458	---
64451	---	2″ x 3/4″	2.81	12/36	1.14	65451	---
64452	---	2″ x 1″	2.81	12/36	1.21	65452	---
64453	---	2″ x 1-1/4″	2.81	9/27	1.19	65453	---
64454	---	2″ x 1-1/2″	2.81	9/27	1.38	65454	---
		2½" x 1"				65455	
		2½ x 1¼				65429	
64461	---	2-1/2″ x 1-1/2″	3.25	20/40	2.07	65461	---
64462	---	2-1/2″ x 2″	3.25	7/14	2.23	65462	---
		3" x 1"				65466	
		3" x 1-1/4"				65467	
64486	---	3″ x 1-1/2″	3.69	6/12	3.23	65486	---
64456	---	3″ x 2″	3.69	6/12	3.30	65456	---
64463	---	3″ x 2-1/2″	3.69	5/10	3.55	65463	---
		4" x 1½"				65468	
64464	---	4″ x 2″	4.38	3/6	5.55	65464	---
64465	---	4″ x 2-1/2″	4.38	3/6	5.90	65465	---
64457	---	4″ x 3″	4.38	3/6	6.05	65457	---
		6″ x 4″	4.24	1/2	10.86	65491	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

HEX BUSHING

* INSIDE HEX

NOTE: ADD DT TO THE PART# FOR A DOUBLE-TAPPED BUSHING

PART # GALVANIZED	LIST PRICE	SIZE M X F	A	HEX	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64500	---	*1/4" x 1/8"	0.79	0.67	1/25	.03	65500	---
64501	---	*3/8" x 1/8"	0.79	0.75	1/25	.06	65501	---
64502	---	*3/8" x 1/4"	0.79	0.75	1/25	.05	65502	---
64503	---	1/2" x 1/8"	0.84	1.03	150/600	.09	65503	---
64504	---	1/2" x 1/4"				.08	65504	---
64505	---	1/2" x 3/8"	0.75	1.03	150/600	.07	65505	---
64506	---	3/4" x 1/8"	0.85	1.15	75/300	.14	65506	---
64507	---	3/4" x 1/4"	0.85	1.15	75/300	.13	65507	---
64508	---	3/4" x 3/8"	0.85	1.15	75/300	.12	65508	---
64509	---	3/4" x 1/2"	0.93	1.15	75/300	.10	65509	---
		1" x 1/8"					65557	
64510*	---	1" x 1/4"	1.13	1.12	50/200	.20	65510*	---
64511*	---	1" x 3/8"	1.13	1.12	50/200	.18	65511*	---
64512	---	1" x 1/2"	1.10	1.42	50/200	.21	65512	---
64513	---	1" x 3/4"	1.10	1.42	50/200	.17	65513	---
64514*	---	1-1/4" x 1/4"	1.24	1.12	30/120	.29	65514*	---
64515*	---	1-1/4" x 3/8"	1.24	1.12	30/120	.29	65515*	---
64516*	---	1-1/4" x 1/2"	1.24	1.24	30/120	.31	65516*	---
64517	---	1-1/4" x 3/4"	1.08	1.76	30/120	.35	65517	---
64518	---	1-1/4" x 1"	1.08	1.76	30/120	.29	65518	---
64519*	---	1-1/2" x 1/4"	1.30	1.12	25/75	.40	65519*	---
64520*	---	1-1/2" x 3/8"	1.30	1.12	25/75	.38	65520*	---
64521*	---	1-1/2" x 1/2"	1.30	1.34	25/75	.38	65521*	---
64522*	---	1-1/2" x 3/4"	1.30	1.44	25/75	.40	65522*	---
64523	---	1-1/2" x 1"	1.23	2.00	25/75	.45	65523	---
64524	---	1-1/2" x 1-1/4"	1.23	2.00	25/75	.34	65524	---
64526	---	2" x 1/4"	1.29	1.12	20/60	.57	65526	---
64525*	---	2" x 3/8"	1.28	1.12	20/60	.57	65525*	---
64527*	---	2" x 1/2"	1.39	1.34	20/60	.57	65527*	---
64528*	---	2" x 3/4"	1.39	1.63	20/60	.63	65528*	---
64529*	---	2" x 1"	1.39	1.77	20/60	.66	65529*	---
64530	---	2" x 1-1/4"	1.50	2.48	20/60	.74	65530	---
64531	---	2" x 1-1/2"	1.50	2.48	20/60	.61	65531	---
64546*	---	2-1/2" x 1/2"	1.51	1.34	15/30	.97	65546*	---
64547*	---	2-1/2" x 3/4"	1.51	1.63	15/30	.91	65547*	---
64532*	---	2-1/2" x 1"	1.51	1.95	15/30	.97	65532*	---
64533*	---	2-1/2" x 1-1/4"	1.51	2.39	15/30	1.03	65533*	---
64534	---	2-1/2" x 1-1/2"	1.51	2.98	15/30	1.16	65534	---
64535	---	2-1/2" x 2"	1.54	2.98	15/30	1.01	65535	---
64550	---	3" x 1"	1.61	1.95	12/24	1.41	65550	---
64549*	---	3" x 1-1/4"	1.61	2.39	12/24	1.42	65549*	---
64537*	---	3" x 1-1/2"	1.61	2.68	12/24	1.51	65537*	---
64538	---	3" x 2"	1.61	3.86	12/24	1.71	65538	---
64539	---	3" x 2-1/2"	1.61	3.86	12/24	1.68	65539	---
		3-1/2" x 3"	1.86	4.20	5/10	2.17	65555	---
64551	---	4" x 3/4"	2.15	4.90	5/10	3.88	65551	---
64553*	---	4" x 1"	2.00	4.75	5/10	3.79	65553*	---
64552	---	4" x 1-1/4"	1.82	2.39	5/10	2.39	65552	---
64540	---	4" x 1-1/2"	1.82	2.68	5/10	2.39	65540	---
64541*	---	4" x 2"	1.82	3.31	5/10	2.52	65541*	---
64542*	---	4" x 2-1/2"	2.06	3.87	5/10	2.87	65542*	---
64543	---	4" x 3"	2.17	4.96	5/10	2.95	65543	---
		5" x 4"	2.16	5.34	2/4	6.80	65544	---
64544		6" x 2"					65558	
64549		6" x 3"					65559	
64545*	---	6" x 4"	2.33	5.79	2/4	7.11	65545*	---
		6" x 5"			2/4		65560	

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

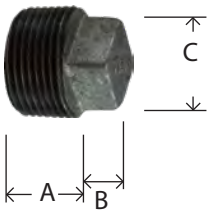
UNIONS

• Brass Seat

PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64600	---	1/8″	1.26	60/240	.17	65600	---
64601	---	1/4″	1.44	20/240	.25	65601	---
64602	---	3/8″	1.61	40/160	.37	65602	---
64603	---	1/2″	1.72	50/100	.52	65603	---
64604	---	3/4″	1.94	35/70	.78	65604	---
64605	---	1″	2.06	20/40	1.18	65605	---
64606	---	1-1/4″	2.26	15/30	1.64	65606	---
64607	---	1-1/2″	2.41	10/20	2.08	65607	---
64608	---	2″	2.75	6/12	3.24	65608	---
64609	---	2-1/2″	3.22	4/8	5.31	65609	---
64610	---	3″	3.50	4/8	6.94	65610	---
64611	---	4″	3.85	2/4	12.02	65611	---

SQUARE HEAD PLUGS

• Cored



PART # GALVANIZED	LIST	SIZE	A	B	C	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
		*1/8"	0.41	0.23	0.30	1/25	.02	65650	---
64651	---	*1/4″	0.48	0.28	0.38	1/25	.03	65651	---
64652	---	*3/8″	0.53	0.31	0.43	1/25	.04	65652	---
64653	---	1/2″	0.58	0.38	0.56	50/600	.08	65653	---
64654	---	3/4″	0.65	0.44	0.63	30/360	.13	65654	---
64655	---	1″	0.75	0.50	0.82	20/240	.22	65655	---
64656	---	1-1/4″	0.82	0.56	0.94	40/120	.33	65656	---
64657	---	1-1/2″	0.85	0.62	1.13	30/90	.41	65657	---
64658	---	2″	0.91	0.68	1.31	20/60	.68	65658	---
64659	---	2-1/2″	1.26	0.74	1.50	16/64	.89	65659	---
64660	---	3″	1.16	0.80	1.69	16/32	1.68	65660	---
64661	---	4″	1.22	1.00	2.28	6/12	3.02	65661	---
		6"	1.85	1.13	5.97	5/10	11.41	65662	---
		8"				1/1		65664	---

CAPS

PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64470	---	1/8"	0.55	1/25	.03	65470	---
64471	---	1/4"	0.62	80/960	.07	65471	---
64472	---	3/8″	0.74	60/720	.08	65472	---
64473	---	1/2″	0.87	75/300	.13	65473	---
64474	---	3/4″	0.97	40/160	.18	65474	---
64475	---	1″	1.16	25/100	.30	65475	---
64476	---	1-1/4″	1.28	20/80	.47	65476	---
64477	---	1-1/2″	1.33	18/54	.66	65477	---
64478	---	2″	1.45	12/36	.99	65478	---
64479	---	2-1/2″	1.70	20/40	1.58	65479	---
64480	---	3″	1.80	12/24	2.51	65480	---
64481	---	4″	2.08	6/12	4.09	65481	---
64482	---	6″	2.55	2/4	5.18	65482	---

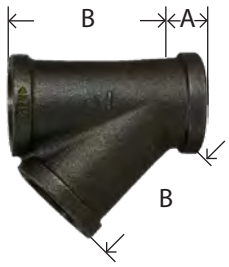
* Use steel fittings for smaller sizes. See Steel Fittings for Galvanized and Black Steel Fittings.

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

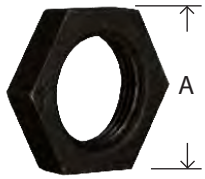
NIPPLES AND FITTINGS

LATERAL Ys



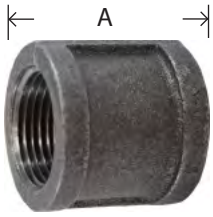
PART #	SIZE	A	B	CASE	WEIGHT	LIST	PART #
64963	1/2	2.32	1.71	120	.35	---	65963
64964	3/4	2.77	2.05	60	.58	---	65964
	1	3.28	2.42	40	.97	---	65965
	1-1/4	3.94	2.92	24	1.44	---	65966
	1-1/2	4.38	3.28	16	1.93	---	65967
64968	2	5.41	3.98	8	3.12	---	65968
	2-1/2	6.25	4.73	4	5.61	---	65969
	3	7.26	5.55	2	8.36	---	65970
	4	8.98	6.97	2	14.88	---	65971

LOCKNUTS
*Straight Thread



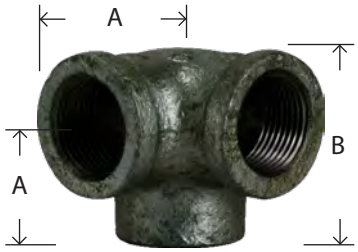
PART # GALV	LIST PRICE	SIZE	A HEX	THICK-NESS	BOX/ CASE	WEIGHT	PART # BLACK	LIST PRICE
64703	---	1/2		0.31	150/600	0.08	65703	---
64704	---	3/4		0.34	90/360	0.13	65704	---
64705	---	1		0.38	60/240	0.19	65705	---
64706	---	1-1/4		0.42	45/180	0.27	65706	---
64707	---	1-1/2		0.47	45/135	0.47	65707	---
64708	---	2		0.53	25/75	0.56	65708	---

RIGHT & LEFT COUPLINGS



PART # GALV	LIST PRICE	SIZE	A	CASE	WEIGHT	PART # BLACK	LIST PRICE
64573	----	1/2	1.34	240	0.19	65573	---
64574	---	3/4	1.52	150	0.28	65574	---
64575	----	1	1.67	100	0.45	65575	---
64576	----	1-1/4	1.93	64	0.66	65576	---
64577	----	1-1/2	2.15	36	0.84	65577	----
64578	---	2	2.53	24	1.39	65578	----

SIDE OUTLET ELBOW



PART # GALV	LIST PRICE	SIZE	A	B	CASE	PART # BLACK	LIST PRICE
64583	---	1/2	1.10		135	65583	---
64584	---	3/4	1.30		80	65584	---
64585	---	1	1.50		40	65585	----
64586	----	1-1/4	1.77		30	65586	---
64587	----	1-1/2	1.97		24	65587	---
64588	----	2	2.29		10	65588	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

FLOOR FLANGES

PART # GALVA-NIZED	LIST	SIZE	A	THICK-NESS	HOLE SIZE	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
		1/4"						65691	
		3/8"						65690	
64692	---	1/2"	3.50	0.50	0.25	25/100	.63	65692	---
64693	---	3/4"	3.50	0.63	0.25	15/45	.73	65693	---
64694	---	1"	4.00	0.69	0.25	15/45	1.02	65694	---
64695	---	1-1/4"	4.00	0.75	0.25	15/30	1.00	65695	---
64696	---	1-1/2"	4.50	0.87	0.31	8/24	1.37	65696	---

EXTENSION FIP X MIP

PART #	SIZE	APPROX. WT. LBS.	BOX/CASE	LIST PRICE
65621	1/2"	0.12	75 / 300	---
65622	3/4"	0.23	40 / 160	---

MUSHROOM VENT CAP

PART #	SIZE	LIST PRICE
21174	3/4"	---
21175	1"	---
21176	1-1/2"	---
21177	1-1/2"	---
21178	2"	---
21179	3"	---
21180	4"	---

Cast Iron Galvanized Threaded Cap. 30 Mesh screen. Protects against driving rain, snow, sleet and insects.

DOUBLE TAPPED BUSHINGS

PART #	SIZE	
65518DT	1-1/4" x 1"	
65522DT	1-1/2" x 3/4"	
65523DT	1-1/2" x 1"	
65527DT	2" x 1/2"	
65528DT	2" x 3/4"	
65529DT	2" x 1"	
65530DT	2" x 1¼"	
65531DT	2" x 1-1/2"	
65541DT	4" x 2"	

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STEEL FITTINGS

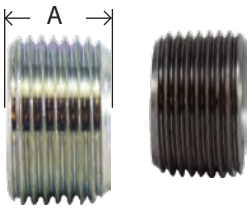
This will certify that the material was manufactured in accordance with ASME B16.14 - 1991 Standards. All Threads are Dryseal (NPTF) - 3/4 inch taper per foot and are made of Carbon Steel 12L14. Pressure rating: 150/300 PSI

- Clear Zinc plating specifications ASTM B633-07
- Federal Specification QQ-Z-325 (Zinc Plate)
- Type III with supplemental clear Trivalent chromate
- .00015" Zinc (Minimum)
- ROHS Compliant
- Lead Free

HEX BUSHINGS

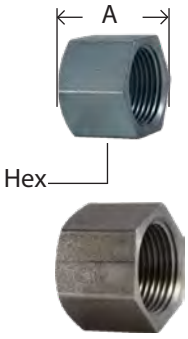
PART # ZINC	LIST PRICE	SIZE M X F	A	HEX	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
66500	---	1/4" x 1/8"	0.63	0.62	0.02	67500	---
66501	---	3/8" x 1/8"	0.66	0.68	0.04	67501	---
66502	---	3/8" x 1/4"	0.66	0.68	0.02	67502	---
66503	---	1/2" x 1/8"	0.80	0.87	0.10	67503	---
66504	---	1/2" x 1/4"	0.80	0.87	0.08	67504	---
66505	---	1/2" x 3/8"	0.80	0.87	0.06	67505	---
66506	---	3/4" x 1/8"	0.94	1.06	0.18	67506	---
66507	---	3/4" x 1/4"	0.94	1.06	0.14	67507	---
66508	---	3/4" x 3/8"	0.94	1.06	0.14	67508	---
66509	---	3/4" x 1/2"	0.94	1.06	0.10	67509	---
66510	---	1" x 1/4"	1.00	1.31	0.16	67510	---
66511	---	1" x 3/8"	1.00	1.31	0.26	67511	---
66512	---	1" x 1/2"	1.00	1.31	0.22	67512	---
66513	---	1" x 3/4"	1.00	1.31	0.14	67513	---

FACE BUSHING



PART # ZINC	LIST PRICE	SIZE M X F	A	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
	---	1/4" x 1/8"	0.44	0.01	67700	---
	---	3/8" x 1/4"	0.48	0.02	67702	---
	---	1/2" x 1/4"	0.56	0.04	67704	---
66705	---	1/2" x 3/8"	0.56	0.04	67705	---
	---	3/4" x 3/8"	0.62	0.10	67708	---
66709	---	3/4" x 1/2"	0.62	0.10	67709	---
	---	1" x 3/4"	0.75	0.16	67713	---

CAPS



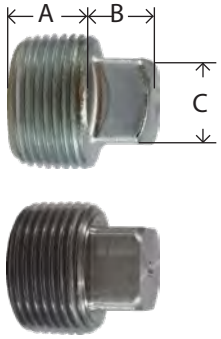
PART # ZINC	LIST PRICE	SIZE NPTF	A	HEX	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
66470	---	1/8"	0.53	0.56	0.02	67470	---
66471	---	1/4"	0.63	0.62	0.04	67471	---
66472	---	3/8"	0.69	0.81	0.06	67472	---
66473	---	1/2"	0.87	1.00	0.12	67473	---
66474	---	3/4"	0.97	1.18	0.16	67474	---
66475	---	1"	1.16	1.50	0.30	67475	---
	---	1-1/4"	1.28	2.00	0.68	67476	---
	---	1-1/2"	1.35	2.25	0.83	67477	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

This will certify that the plugs are dimensional per SAE J531 MAY 95 Standards. All threads are Dryseal (NPTF) - 3/4"Taper per foot and are made of SAE J403 Low Carbon Steel 1010 Cold headed.

SQUARE HEAD PLUGS

• Solid



PART # ZINC	LIST PRICE	SIZE NPTF	A	B	C	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
66670	---	1/8″	0.33	0.24	0.28	0.01	67670	---
66671	---	1/4″	0.45	0.28	0.37	0.02	67671	---
66672	---	3/8″	0.50	0.31	0.43	0.04	67672	---
66653	---	1/2″	0.59	0.38	0.55	0.12	67653	---
66654	---	3/4″	0.63	0.44	0.62	0.18	67654	---
66655	---	1"	0.75	0.5	0.81	0.34	67655	---
66656	---	1-1/4"	0.80	0.56	0.93	0.62	67656	---
66657	---	1-1/2"	0.83	0.62	1.12	0.82	67657	---
66658	---	2"	0.88	0.68	1.31	1.36	67658	---

HEX HEAD PLUGS

• Solid

Hex

PART # ZINC	LIST PRICE	SIZE NPTF	A	HEX	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
66770	---	1/8″	0.55	0.43	0.01	67770	---
66771	---	1/4″	0.74	0.56	0.04	67771	---
66772	---	3/8″	0.67	0.68	0.06	67772	---
66773	---	1/2″	0.80	0.70	0.12	67773	---
66774	---	3/4″	0.94	1.06	0.18	67774	---
66775	---	1″	1.00	1.31	0.22	67775	---
66776	---	1-1/4"	1.17	1.75	0.7	67776	---
66777	---	1-1/2"	1.51	2.00	1.2	67777	---
66778	---	2"	1.65	2.50	2.06	67778	---

COUNTERSUNK PLUG - Square Socket

PART # ZINC	LIST PRICE	SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
66630	---	1/8″	0.29	0.19	0.01	67630	---
66631	---	1/4″	0.45	0.25	0.02	67631	---
66632	---	3/8″	0.45	0.31	0.04	67632	---
66633	---	1/2″	0.59	0.38	0.08	67633	---
66634	---	3/4″	0.60	0.50	0.12	67634	---
66635	---	1″	0.75	0.50	0.16	67635	---
66636	---	1-1/4"	0.80	0.75	0.32	67636	---
66637	---	1-1/2"	0.83	0.75	0.45	67637	---
66638	---	2"	0.88	0.875	2.06	67638	---

COUNTERSUNK PLUG - Hex Socket

PART # ZINC	LIST PRICE	SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
66760	---	1/16″	0.29	0.15	0.01	67760	---
66761	---	1/8″	0.29	0.18	0.01	67761	---
66762	---	1/4″	0.44	0.25	0.02	67762	---
66763	---	3/8″	0.44	0.31	0.04	67763	---
66764	---	1/2″	0.59	0.37	0.08	67764	---
66765	---	3/4″	0.60	0.56	0.14	67765	---
66766	---	1″	0.75	0.625	0.22	67766	---
66767	---	1-1/4"	0.80	0.75	0.37	67767	---
66768	---	1-1/2"	0.83	1.0	0.45	67768	---
66769	---	2"	0.88	1.0	0.86	67769	---

• Slotted and Flush plugs available upon request

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

300# MALLEABLE

90° ELBOW

PART #	SIZE	LIST PRICE
69101	1/4"	---
69102	3/8"	---
69103	1/2"	---
69104	3/4"	---
69105	1"	---
69106	1-1/4"	---
69107	1-1/2"	---
69108	2"	---

45° ELBOW

PART #	SIZE	LIST PRICE
69181	1/4"	---
69182	3/8"	---
69183	1/2"	---
69184	3/4"	---
69185	1"	---
69186	1-1/4"	---
69187	1-1/2"	---
69188	2"	---

90° STREET ELBOW

PART #	SIZE	LIST PRICE
69161	1/4"	---
69162	3/8"	---
69163	1/2"	---
69164	3/4"	---
69165	1"	---
69166	1-1/4"	---
69167	1-1/2"	---
69168	2"	---

TEE

PART #	SIZE	LIST PRICE
69252	3/8"	---
69253	1/2"	---
69254	3/4"	---
69255	1"	---
69256	1-1/4"	---
69257	1-1/2"	---
69258	2"	---

COUPLING

PART #	SIZE	LIST PRICE
69411	1/4"	---
69412	3/8"	---
69413	1/2"	---
69414	3/4"	---
69415	1"	---
69416	1-1/4"	---
69417	1-1/2"	---
69418	2"	---

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For more information, visit www.P65Warnings.ca.gov

BLACK EXTRA 300# IRON

NIPPLES AND FITTINGS

REDUCING COUPLING

PART #	SIZE	LIST PRICE
69432	3/8 x 1/4"	---
69434	1/2 x 1/4"	---
69435	1/2 x 3/8"	---
69438	3/4 x 1/2"	---
69441	1 x 1/2"	---
69442	1 x 3/4"	---

CAP

PART #	SIZE	LIST PRICE
69471	1/4"	---
69472	3/8"	---
69473	1/2"	---
69474	3/4"	---
69475	1"	---
69476	1-1/4"	---
69477	1-1/2"	---
69478	2"	---

UNION

• Brass Seat

PART #	SIZE	LIST PRICE
69600	1/8"	---
69601	1/4"	---
69602	3/8"	---
69603	1/2"	---
69604	3/4"	---
69605	1"	---
69606	1-1/4"	---
69607	1-1/2"	---
69608	2"	---

STEEL MAGNETIC PLUGS

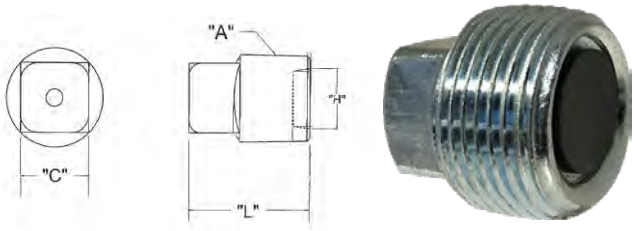
Steel Magnetic Drain Plugs - NPT Threaded

Magnetic Drain Plugs are similar to standard pipe or straight thread drain plugs with one important difference - a permanent magnet is fastened to the plug body. This magnet attracts and holds abrasive, ferrous metal particles preventing their circulation through the lubrication or hydraulic system.

These abrasive, ferrous metal particles appear in lubricating or hydraulic systems as a result of the following conditions:
- The constant flaking effect of normal wear of moving parts.
- Particles not removed by flushing operations after boring or machining.
- Chipping due to sub-surface casting flaws.
- Minute component breakdown caused by stress usage.

Magnetic Drain Plugs prevent excessive wear to the system's components.

Magnetic Plugs are used by numerous manufacturers of gear boxes, transmissions, engines, and hydraulic systems for the automotive, aircraft, agricultural and machinery industries.
Typical applications include:
- Outboard Engines
- Earthmoving Equipment
- Combines
- Balers
- Crawler Tractors
- Lift Trucks
- Mining Equipment
- Military Vehicles
- Turbine Engines
- Truck Axles
- Heavy-Duty Transmissions



PART	SIZE "A"	HEAD WIDTH "C"	RECESS DIA. "H"	O/L LENGTH "L"	LIST PRICE
28996	3/8 - 18	.428 - .440	.435 - .445	.805 - .860	---
28997	1/2 - 14	.553 - 565	.560 - .570	.970 -1.04	---
28998	3/4 - 14	.615 - .627	.725 - .735	1.120 - 1.170	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BULL PLUGS AND SWAGES

STANDARD BULL PLUG

- Sch 40 150#
- Zinc plated

PART #	DESCRIPTION	LIST PRICE
91008	2"	---
	2" w/ 1/2" TAP	---
	2-1/2"	---
	3"	---
	4"	---

XH BULL PLUG

- Made from sch. 80 pipe.
- Zinc plated
- Hollow

PART #	DESCRIPTION	LIST PRICE
	1/4"	---
90002	3/8"	---
90003	1/2"	---
90004	3/4"	---
90005	1"	---
	1-1/4"	---
	1-1/2"	---
90008	2"	---
93001*	2"	---
90213	2" w/ 1/4" TAP	---
90212	2" w/ 1/2" TAP	---
93212*	2"XXH w/1/2" TAP	---
	2-1/2"	---
	3"	---
	3" w/ 1/2" TAP	---
90011	4"	---

* XXH

STANDARD SCH. 40 SWAGE

MIP X MIP

- Zinc plated

PART #	DESCRIPTION	LIST PRICE
93113	1-1/4" x 1"	---
93121	2" x 1"	---
93122	2" x 1-1/4"	---
93123	2" x 1-1/2"	---
	2-1/2" x 2"	---
	3" x 1"	---
93127	3" x 1-1/2"	---
93128	3" x 2"	---
	3" x 2-1/2"	---
93130	4" x 2"	---
93131	4" x 3"	---
93139	6" x 3"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

SWAGES
NIPPLES AND FITTINGS

SCH 80 XH SWAGES
MIP X MIP

* Hex Style

PART #	DESCRIPTION	LIST PRICE
	1/4" x 1/8"	---
	1/2" x 1/4"	---
90103*	1/2" x 3/8"	---
90104*	3/8" x 1/4"	---
90105*	3/4" x 1/4"	---
90106*	3/4" x 3/8"	---
90107*	3/4" x 1/2"	---
	1" x 1/4"	---
	1" x 3/8"	---
90110*	1" x 1/2"	---
90111*	1" x 3/4"	---
90140	1-1/4" x 3/4"	---
90141	1-1/4" x 1"	---
90114	1-1/2" x 1/2"	---
90115	1-1/2" x 3/4"	---
90116	1-1/2" x 1"	---
90117	1-1/2" x 1-1/4"	---
	2" x 1/4"	---
90119	2" x 1/2"	---
90120	2" x 3/4"	---
90121	2" x 1"	---
90122	2" x 1-1/4"	---
90123	2" x 1-1/2"	---
	2-1/2" x 2"	---
	3" x 1"	---
90126	3" x 1-1/4"	---
90127	3" x 1-1/2"	---
90128	3" x 2"	---
	3" x 2-1/2"	---
	4" x 1"	---
90130	4" x 2"	---
90131	4" x 3"	---
90132	6" x 4"	---
	6" x 2"	---
	6" x 3"	---

XXH SWAGE

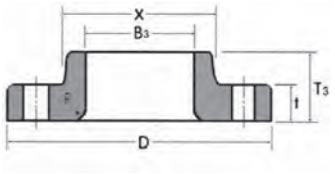
PART #	DESCRIPTION	LIST PRICE
	1/2" x 1/4"	---
	3/4" x 1/2"	---
	1" x 1/4"	---
	1" x 3/8"	---
92110*	1" x 1/2"	---
	1" x 3/4"	---
	1-1/2" x 1/2"	---
	1-1/2" x 3/4"	---
92116	1-1/2" x 1"	---
	2" x 1/2"	---
	2" x 3/4"	---
92121	2" x 1"	---
	2" x 1-1/4"	---
	2" x 1-1/2"	---
92128	3" x 2"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

ASTMA105
ASME SA105
ANSI B16.5

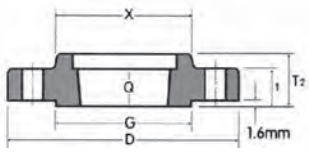
CARBON STEEL FLANGES

• A105 Forged Steel • CLASS 150
(1-1/2 thru 6" available in #316 Stainless Steel add SS to part#)



SLIP-ON 1/16" RAISED FACE CARBON STEEL FLANGE

PART #	SIZE	LIST PRICE
	1/2"	---
	3/4"	---
	1"	---
	1-1/4"	---
107024	1-1/2"	---
107025	2"	---
107026	2-1/2"	---
107027	3"	---
107029	4"	---
107031	6"	---
107032	8"	---
	10"	---
	12"	---



THREADED 1/16" RAISED FACE CARBON STEEL FLANGE

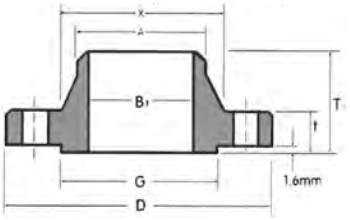
PART #	SIZE	LIST PRICE
107060	1/2"	---
107061	3/4"	---
107062	1"	---
107063	1-1/4"	---
107064	1-1/2"	---
107065	2"	---
107066	2-1/2"	---
107067	3"	---
107069	4"	---
107071	6"	---
107072	8"	---
107073	10"	---
	12"	---

Nominal Pipe Size	Depth of Socket in.	DRILLING			BOLTING				APPROXIMATE WEIGHT		
		Bolt Circle Diam-eter	Number of Holes	Diam-eter of Holes	Diam-eter of Bolts (inch)	Machine Bolt Length	Stud Bolt Length		Welding Neck	Slip-on and Thread-ed	Blind
	Y					Raised Face	Raised Face	Ring Joint	LBS	LBS	LBS
1/2	.382	2.382	4	.618	1/2	2.00	2.252	-	1.146	1.036	1.036
3/4	.441	2.752	4	.618	1/2	2.00	2.50	-	2.028	1.653	1.389
1	.500	3.118	4	.618	1/2	2.252	2.50	3.00	2.425	1.893	2.094
1-1/4	.559	3.50	4	.618	1/2	2.252	2.752	3.252	3.086	3.086	3.086
1-1/2	.618	3.882	4	.618	1/2	2.50	2.752	3.252	3.99	3.109	3.571
2	.689	4.752	4	.752	5/8	2.752	3.252	3.752	6.173	4.982	5.82
2-1/2	.752	5.5	4	.752	5/8	3.00	3.50	4.00	9.436	7.562	8.951
3	.811	6.0	4	.752	5/8	3.00	3.50	4.00	11.42	8.818	11.023
4	.941	7.50	8	.752	5/8	3.00	3.50	4.00	16.138	12.677	16.535
6	1.059	9.50	8	.882	3/4	3.252	4.00	4.50	24.824	17.196	26.455
8	1.252	11.752	8	.882	3/4	3.50	4.252	4.752	39.683	28.66	44.092
10	1.311	14.252	12	1.00	7/8	4.00	4.50	5.00	55.116	37.699	66.139
12	1.559	17	12	1.00	7/8	4.00	4.752	5.252	85.936	61.024	97.003

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

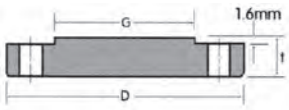
ASTMA105
ASME SA105
ANSI B16.5

• A105 Forged Steel
• CLASS 150
(1-1/2 thru 6" available in #316 Stainless Steel add SS to part#)



WELD NECK CARBON STEEL FLANGE

Part #	Size	List Price
	1/2"	---
	3/4"	---
	1"	---
	1-1/4"	---
107004	1-1/2"	---
107005	2"	---
	2-1/2"	---
107007	3"	---
107009	4"	---
107011	6"	---
107012	8"	---
	10"	---
	12"	---



BLIND 1/16" RAISED FACE CARBON STEEL FLANGE

PART #	SIZE	LIST PRICE
	1/2"	---
	3/4"	---
107042	1"	---
	1-1/4"	---
107044	1-1/2"	---
107045	2"	---
	2-1/2"	---
107047	3"	---
107049	4"	---
	6"	---
	8"	---
	10"	---
	12"	---

Nominal Pipe Size	Outside Diameter	O.D of Raised Face	Diameter at Base of Hub	Thickness	Bore	Length Thru Hub	
					Welding Neck Socket Welding	Welding Neck	Slip-on Threaded Socket Welding
	D	G	X	T	B1	T1	T2
1/2 3/4 1	3.504 3.898 4.252	1.382 1.689 2.00	1.189 1.50 1.941	.441 .50 .559	.618 .819 1.051	1.882 2.059 2.189	.618 .618 .689
1-1/4 1-1/2 2	4.606 5.00 5.984	2.50 2.882 3.618	2.311 2.559 3.059	.618 .689 .752	1.382 1.610 2.071	2.252 2.441 2.50	.811 .882 1.00
2-1/2 3	7.008 7.52	4.118 5.00	3.559 4.252	.882 .941	2.469 3.071	2.752 2.752	1.118 1.189
4 6	9.016 10.984	6.189 8.50	5.311 7.559	.941 1.00	4.031 6.071	3.00 3.50	1.311 1.559
8 10 12	13.504 15.984 19.016	10.618 12.752 15.00	9.689 12.00 14.382	1.118 1.189 1.252	7.980 10.02 12.00	4.00 4.00 4.50	1.752 1.941 2.189

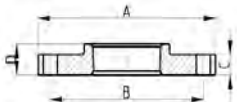
WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALV. DUCTILE IRON REDUCING COMPANION FLANGES

NIPPLES AND FITTINGS

THREADED COMPANION FLANGE CLASS 125 PATTERN (BLACK & GALVANIZED)

* DIMENSIONS, FACED AND DRILLED IN ACCORDANCE WITH ASME B16.42/AWWA C110
* COATING: AVAILABLE IN BLACK ELECTROPHORETIC COATING AND HOT DIP GALVANIZED
* HOT-DIPPED GALVANIZED CONFORM TO ASTM A153; COMPANION FLANGE THREADS CONFORM TO ASME B1.20.1
* APPLICATION: WATERWORKS, PUMP, IRRIGATION
* 150PSI



BLACK

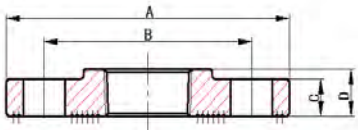
PART #	DESCRIPTION (DI FLANGE)	A (INCH)	B (INCH)	C (INCH)	D (INCH)	BOLT HOLE SIZE	NO. OF HOLES	UNIT WEIGHT (KG)	
108075	3" x 2"	7.50	6.00	0.75	1.19	ϕ0.75	4	4.3827	---
108076	3" x 2-1/2"	7.50	6.00	0.75	1.19	ϕ0.75	4	4.2013	---
108077	4" x 1-1/2"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.8352	---
108088	4" x 2"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.4168	---
108089	4" x 2-1/2"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.3343	---
108090	4" x 3"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.081	---
108091	5" x 4"	10.00	8.50	0.94	1.44	ϕ0.875	8	6.8761	---
108094	6" x 2"	11.00	9.50	1.00	1.56	ϕ0.875	8	10.6349	---
108095	6" x 3"	11.00	9.50	1.00	1.56	ϕ0.875	8	10.1831	---
108092	6" x 4"	11.00	9.50	1.00	1.56	ϕ0.875	8	9.4563	---
108096	8" x 4"	13.50	11.75	1.12	1.75	ϕ0.875	8	17.1296	---
108097	8" x 6"	13.50	11.75	1.12	1.75	ϕ0.875	8	15.2184	---
108098	8" x 2"	16.00	14.25	1.19	1.94	ϕ1	12	26.54	---
108099	8" x 3"	---	---	---	---	---	---	---	---
108100	10" x 2"	---	---	---	---	---	---	---	---
108101	12" x 2"	---	---	---	---	---	---	---	---

GALVANIZED

108031	2-1/2" x 2"	6.00	4.75	0.75	1.19	ϕ0.75	4	3.623	---
108032	3" x 2"	7.50	6.00	0.75	1.19	ϕ0.75	4	4.3827	---
108033	3" x 2-1/2"	7.50	6.00	0.75	1.19	ϕ0.75	4	4.2013	---
108034	4" x 2"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.4168	---
108035	4" x 2-1/2"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.3343	---
108036	4" x 3"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.081	---
108038	6" x 2"	11.00	9.50	1.00	1.56	ϕ0.875	8	10.6349	---
108039	6" x 2-1/2"	11.00	9.50	1.00	1.56	ϕ0.875	8	10.5386	---
108037	6" x 4"	11.00	9.50	1.00	1.56	ϕ0.875	8	9.4563	---
108040	8" x 4"	13.50	11.75	1.12	1.75	ϕ0.875	8	17.1296	---
108041	8" x 6"	13.50	11.75	1.12	1.75	ϕ0.875	8	15.2184	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

DUCTILE IRON THREADED COMPANION FLANGES



*DIMENSIONS, FACED AND DRILLED IN ACCORDANCE WITH ASME B16.42/AWWA C110
*COATING: AVAILABLE IN BLACK ELECTROPHORETIC COATING AND HOT DIP GALVANIZED
*HOT-DIPPED GALVANIZED CONFORM TO ASTM A153; COMPANION FLANGE THREADS CONFORM TO ASME B1.20.1
*APPLICATION: WATERWORKS, PUMP, IRRIGATION

BLACK

PART # (BLACK)	DESCRIPTION (THREADED)	SIZE (INCH)	A (INCH)	B (INCH)	C (INCH)	D (INCH)	BOLT HOLE SIZE	NO. OF HOLES	UNIT WEIGHT (KG)	
108062	1 150	1"	4.25	3.12	0.44	0.75	ϕ0.625	4	0.8347	---
108063	1 1/4 150	1-1/4"	4.62	3.5	0.5	0.81	ϕ0.625	4	1.0797	---
108064	1 1/2 150	1-1/2"	5	3.88	0.56	0.88	ϕ0.625	4	1.3217	---
108065	2 150	2"	6	4.75	0.62	1	ϕ0.75	4	2.1457	---
108066	2 1/2 150	2-1/2"	7	5.5	0.69	1.12	ϕ0.75	4	3.4182	---
108067	3 150	3"	7.5	6	0.75	1.19	ϕ0.75	4	3.9051	---
108069	4 150	4"	9	7.5	0.94	1.31	ϕ0.75	8	5.5254	---
108071	6 150	6"	11	9.5	1	1.56	ϕ0.875	8	7.5328	---
108072	8 150	8"	13.5	11.75	1.12	1.75	ϕ0.875	8	13.0201	---
108073	10 150	10"	16	14.25	1.19	1.94	ϕ1	12	22.854	---
108074	12 150	12"	19	17	1.25	2.19	ϕ1	12	26.5451	---

GALVANIZED

108025	2 150	2"	6	4.75	0.62	1	ϕ0.75	4	2.1457	---
108026	2 1/2 150	2-1/2"	7	5.5	0.69	1.12	ϕ0.75	4	3.4182	---
108027	3 150	3"	7.5	6	0.75	1.19	ϕ0.75	4	3.9051	---
108028	4 150	4"	9	7.5	0.94	1.31	ϕ0.75	8	5.5254	---
108029	6 150	6"	11	9.5	1	1.56	ϕ0.875	8	7.5328	---

BLIND FLANGES

PART # (BLACK)	DESCRIPTION (THREADED)	SIZE (INCH)	A (INCH)	B (INCH)	C (INCH)	BOLT HOLE SIZE	NO. OF HOLES	UNIT WEIGHT (KG)	
108065BF		2"	6	4.75	0.62	ϕ0.75	4	2.3731	
108067BF		3"	7.5	6	0.94	ϕ0.75	4	4.8547	
108069BF		4"	9	7.5	0.94	ϕ0.75	8	6.5341	
108071BF		5"	10	8.5	0.94	ϕ0.875	8	7.9894	
108070BF		6"	11	9.5	1	ϕ0.875	8	10.811	
108072BF		8"	13.5	11.75	1.12	ϕ0875	8	18.6264	
108073BF		10"	16	14.25	1.19	ϕ1	12	26.2487	

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

GASKET SETS
NIPPLES AND FITTINGS

#150 BOLT & GASKET SET W/ PLATED STEEL BOLTS/NUTS & FULL FACE RED RUBBER GASKETS

MIDLAND	SIZE	
987245	2″ Bolt & Gasket Set	
987246	2-1/2″ Bolt & Gasket Set	
987247	3″ Bolt & Gasket Set	
987248	4″ Bolt & Gasket Set	
987249	5″ Bolt & Gasket Set	
987250	6″ Bolt & Gasket Set	
987251	8″ Bolt & Gasket Set	
987252	10″ Bolt & Gasket Set	
987253	12″ Bolt & Gasket Set	

#150 BOLT & GASKET SET W/ PLATED STEEL BOLTS/NUTS & NON-ASBESTOS GASKETS

MIDLAND	SIZE	
987254	2″ Bolt & Gasket Set	
987255	2-1/2″ Bolt & Gasket Set	
987256	3″ Bolt & Gasket Set	
987257	4″ Bolt & Gasket Set	
987258	5″ Bolt & Gasket Set	
987259	6″ Bolt & Gasket Set	
987260	8″ Bolt & Gasket Set	
987261	10″ Bolt & Gasket Set	
987262	12″ Bolt & Gasket Set	

#150 BOLT & GASKET SET W/ 304SS BOLTS/NUTS & FULL FACE RED RUBBER GASKETS

MIDLAND	SIZE	
988245	2″ Bolt & Gasket Set	
988246	2-1/2″ Bolt & Gasket Set	
988247	3″ Bolt & Gasket Set	
988248	4″ Bolt & Gasket Set	
988249	5″ Bolt & Gasket Set	
988250	6″ Bolt & Gasket Set	
988251	8″ Bolt & Gasket Set	
988252	10″ Bolt & Gasket Set	
988253	12″ Bolt & Gasket Set	

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

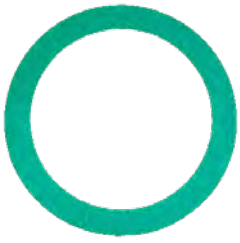
#150 BOLT & GASKET SET W/ 304SS BOLTS/NUTS & NON-ASBESTOS GASKETS

MIDLAND	SIZE	
988254	2″ Bolt & Gasket Set	
988255	2-1/2″ Bolt & Gasket Set	
988256	3″ Bolt & Gasket Set	
988257	4″ Bolt & Gasket Set	
988258	5″ Bolt & Gasket Set	
988259	6″ Bolt & Gasket Set	
988260	8″ Bolt & Gasket Set	
988261	10″ Bolt & Gasket Set	
988262	12″ Bolt & Gasket Set	

FULL FACE RED RUBBER GASKET

MIDLAND	SIZE	
988400	2″ Gasket	
988401	2-1/2″ Gasket	
988402	3″ Gasket	
988403	4″ Gasket	
988404	5″ Gasket	
988405	6″ Gasket	
988406	8″ Gasket	
988407	10″ Gasket	
988408	12″ Gasket	

NON-ASBESTOS RING GASKET



MIDLAND	SIZE	
987400	2″ Gasket	
987401	2-1/2″ Gasket	
987402	3″ Gasket	
987403	4″ Gasket	
987404	5″ Gasket	
987405	6″ Gasket	
987406	8″ Gasket	
987407	10″ Gasket	
987408	12″ Gasket	

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

COPPER FITTINGS

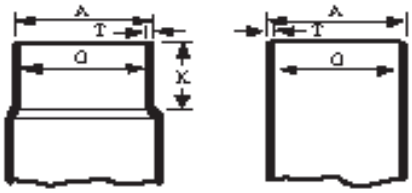
SYMBOL OF JOINT ENDS

C Solder joint fitting end made to receive copper tube diameter
Ftg. Solder joint fitting end made to copper tube diameter
F Internal ANSI Standard Taper Pipe Thread-Female
M External ANSI Standard Taper Pipe Thread-Male
Threaded ends ANSI/ ASME B1. Solder ends ASTM B88

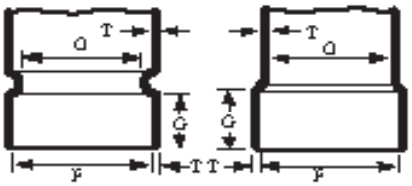
- Temp range 32° to 200°F
- Pressure @100° - 1/8-1 : 500 PSI
  - 1-1/4-2 : 400 PSI
  - 2-1/2 - 3: 300 PSI

NSF - 61 CERTIFIED
ALLOY C12200

THE ABOVE CONFORMS TO ASTM B 88 & ASTM B 306, A 306



MALE (FITTING)



FEMALE (COPPER)

Nominal Size	Joint Ends										Metal Thickness T (in)	Inside Diameter O (in)
	Male End					Female End						
	Outside Diameter (A) in	Average Tolerance (mm)	Actual MIN in	O.D. MAX in		Inside Diameter F (in)	Average Tolerance (mm)	Actual MIN in	O.D. MAX in			
1/8	2/8	0.03	2/8	2/8	3/8	2/8	0.03	2/8	2/8	3/8	0	2/8
1/4	3/8		3/8	3/8	3/8	3/8		3/8	3/8	3/8	0	2/8
3/8	4/8		4/8	4/8	3/8	4/8		4/8	4/8	3/8	0	3/8
1/2	5/8		5/8	5/8	4/8	5/8		5/8	5/8	3/8	0	4/8
5/8	6/8		6/8	6/8	5/8	6/8		6/8	6/8	5/8	0	4/8
3/4	7/8		7/8	7/8	6/8	7/8		7/8	7/8	5/8	0	5/8

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

WROT SOLDER JOINT

NIPPLES AND FITTINGS

90° ELL C X C

PART#	NOMINAL (ID)	OD	APPROX NET WT.	IND #	LIST PRICE
77101	1/4"	3/8"	0.01	W 02009	---
77102	3/8"	1/2"	0.03	W 02017	---
77104	1/2"	5/8"	0.04	W 02022	---
77108	3/4"	7/8"	0.09	W 02034	---
77110	1"	1-1/8"	0.17	W 02047	---
77113	1-1/4"	1-3/8"	0.27	W 02077	---
77114	1-1/2"	1-5/8"	0.41	W 02085	---
77116	2"	2-1/8"	0.73	W 02086	---
77119	3"				

WE-500-R **607-R** 107-C

90° STREET ELL FTG. X C

PART#	NOMINAL (ID)	OD	APPROX NET WT.	IND #	LIST PRICE
77124	1/4"	3/8"	0.01	W 02312	---
77125	3/8"	1/2"	0.03	W 02321	---
77126	1/2"	5/8"	0.05	W 01652	---
77128	3/4"	7/8"	0.12	W 01654	---
77129	1"	1-1/8"	0.22	W 02344	---
77130	1-1/4"	1-3/8"	0.33	W 02384	---
77131	1-1/2"	1-5/8"	0.45	W 02385	---
77132	2"	2-1/8"	0.87	W 02386	---
77134	3"				

90° LONG TURN ELL C X C

PART#	NOMINAL (ID)	OD	APPROX NET WT.	IND #	LIST PRICE
77143	1/2"	5/8"	0.06	W 02722	---
77144	5/8"	3/4"	0.10	W 02728	---
77145	3/4"	7/8"	0.15	W 02734	---

WE-500-L **607-LT** 107-L

90° LONG TURN ST. ELL FTG. X C

PART#	NOMINAL (ID)	OD	APPROX NET WT.	IND #	LIST PRICE
77156	5/8"	3/4"	0.11		---
77159	1-1/4"	1-3/8"	0.46	W 02828	---
77160	1-1/2"	1-5/8"	0.64	W 02834	---

WE-503-L **607-2LT**

45° ELL C X C

PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77163	3/8"	0.02	W 03021	---
77164	1/2"	0.04	W 03026	---
77166	3/4"	0.10	W 03034	---
77167	1"	0.19	W 03044	---
77168	1-1/4"	0.27	W 03050	---
77169	1-1/2"	0.39	W 03055	---
77170	2"	0.75	W 03059	---

WE-504 **606** 106

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

WROT SOLDER JOINT

NIPPLES AND FITTINGS

STREET 45° FTG. X C

PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77179	1/2"	0.06	W 03326	---
77181	3/4"	0.10	W 03334	---
77182	1"	0.18	W 03344	---
77183	1-1/4"	0.27	W 03350	---

WE-505 **606-2**

COUPLING (SOCKET) W/ ROLLED UP TUBE STOP C X C

PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77201	1/8"	0.01	W 01003	---
77202	1/4"	0.01	W 01009	---
77203	3/8"	0.02	W 01017	---
77204	1/2"	0.03	W 01022	---
77205	5/8"	0.04	W 01028	---
77206	3/4"	0.06	W 01034	---
77207	1"	0.10	W 01047	---
77208	1-1/4"	0.15	W 01055	---
77209	1-1/2"	0.22	W 01063	---
77210	2"	0.39	W 01072	---
77212	3"			

WC-400 **100**

COUPLING (SOCKET) LESS TUBE STOP C X C

PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77220	1/4"	0.01	W 01901	---
77222	1/2"	0.03	W 01903	---
77223	3/4"	0.06	W 01905	---
77224	1"	0.10	W 01906	---
77225	1-1/4"	0.15	W 01907	---
77226	1-1/2"	0.22	W 01908	---
77227	2"	0.39	W 01909	---

WC-400NS **601**

COUPLING (SOCKET) W/ DIMPLED TUBE STOP C X C

PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77238	1/2"	0.03		---
77240	3/4"	0.06		---
77241	1"	0.10		---

WC-400S

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

WROT SOLDER JOINT
NIPPLES AND FITTINGS

REDUCER COUPLING W/ STOP C X C

PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77252	1/4" x 1/8"	0.01	W 01011	---
77253	3/8" x 1/4"	0.02	W 01019	---
77256	1/2" x 1/4"	0.03	W 01023	---
77255	1/2" x 3/8"	0.03	W 01021	---
77258	5/8" x 1/2"	0.04	W 01025	---
77262	3/4" x 1/2"	0.06	W 01029	---
77267	1"x1/2"	0.10	W 01049	---
77265	1"x3/4"	0.12	W 01038	---
77269	1 -1/4" x 3/4"	0.17	W 01056	---
77268	1-1/4" x 1"	0.17	W 01051	---
77272	1-1/2" x1"	0.24	W 01064	---
77271	1-1/2" x 1-1/4"	0.24	W 01060	---
77277	2" x 1"	0.48	W 01074	---
77276	2 x 1-1/4"	0.46	W 01073	---
77275	2" x 1-1/2"	0.42	W 01069	---

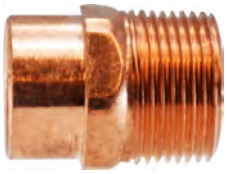
WC-400R **600-R**

FITTING REDUCER FTG. C X C

PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77294	1/2" x 1/4"	0.03	W 01317	---
77298	3/4" x 3/8"	0.05	W 01327	---
77297	3/4" x 1/2"	0.06	W 01326	---
77352	1" x 1/2"	0.10	W 01265	---
77300	1"x3/4"	0.11	W 01337	---
77355	1 -1/4" x 3/4"	0.15	W 01345	---
77354	1-1/4" x1"	0.17	W 01343	---
77359	1 -1/2" x 3/4"	0.21	W 01353	---
77358	1-1/2"x1"	0.22	W 01351	---
77357	1 -1/2" X 1-1/4"	0.21	W 01350	---
77361	2" x 1-1/2"	0.39	W 01358	---

WC-403 **600-2**

MALE ADAPTER C X M



PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77398	3/8"	0.06	W 01125	---
77401	1/2"	0.08	WB01131	---
77306	3/4"	0.14	WB01146	---
77309	1"	0.24	WB01163	---
77314	1-1/4"	0.41	W 01171	---
77318	1-1/2"	0.50	W 01179	---
77322	2"	0.87	W 01187	---
77308	3/8" x 1/2"			
77311	1/2" x 3/8"	0.18		---
77315	3/4" x 1/2"	0.31		---
77307	3/4" x 1"	0.29	W 01145	---
77312	1" x 3/4"	0.18	W 01164	---

• 14 more reducing sizes available

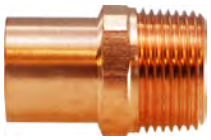
WC-401 **604**

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

WROT SOLDER JOINT

NIPPLES AND FITTINGS

FTG. MALE ADAPTER FTG. X M



PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77331	1/2"	0.09	W 01431	---
77333	3/4"	0.15	W 01446	---
77334	1"	0.15	W 01463	---
77335	1-1/4"	0.41	W 01471	---

WC-404 **604-2**

COPPER TUBING

SEE COPPER TUBING FOR REFRIGERATION AND DRINKING WATER

FEMALE ADAPTERS C X F

PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77340	3/8"			
77343	1/2"	0.10	WB01231	---
77349	3/4"	0.14	WB01246	---
77402	1"	0.24	WB01263	---
77406	1-1/4"	0.43	W 01271	---
77410	1-1/2"	0.58	W 01279	---
77413	2"	0.74	W 01287	---
77341	3/8" x 1/2"	0.10	W 01224	---
77347	1/2" x 1/4"	0.05	W 01233	---
77346	1/2"x3/8"	0,70	W 01232	---
77345	1/2" x 3/4"	0.15	WB01230	---

FEMALE FTG. ADAPT. FTG. X F

PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77420	1/2"	0.11	W 01531	---
77423	3/4"	0.19	W 01546	---
77424	1			---
77425	1¼			

WC405 **603-2** WC405R **603R**

CAP

PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77430	3/8"	0.01	W 07006	---
77431	1/2"	0.02	WB07007	---
77432	5/8"	0.03	W 07008	---
77433	3/4"	0.04	WB07009	---
77434	1"	0.08	WB07011	---
77435	1-1/4"	0.11	W 07012	---
77436	1-1/2"	0.18	W 07013	---
77437	2"	0.30	W 07014	---

• More sizes available

WC402 **603** WC402R **603R**

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

WROT SOLDER JOINT

NIPPLES AND FITTINGS

UNIONS C X C

PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77455LF	1/2"	0.17	W 08003	---
77456LF	3/4"	0.37	W 08004	---
77457LF	1"	0.51	W 08005	---
77606LF	1-1/4"	0.98	W08006	---
77607LF	1-1/2"	1.21	W08007	---
77608LF	2"		W08008	---

• LF = Lead Free

WC-415 617

U-TYPE STRAP

PART#	NOMINAL	APPROX NET WT.	IND #	LIST PRICE
77461	1/2"	0.03	A 02529	---
77462	3/4"	0.03	A 02574	---

WC-407
WS-1100

TEE C X C X C

PART#	NOMINAL 1 X 2 X 3	APPROX NET WT.	IND #	LIST PRICE
77467	1/8"	0.02	W 40306	---
77468	1/4"	0.03	W 04000	---
77470	3/8"	0.05	W 04001	---
77473	1/2"	0.08	WB04006	---
77483	3/4"	0.18	WB04031	---
77490	1"	0.35	WB04048	---
77504	1-1/4"	0.58	W 04068	---
77519	1-1/2"	0.72	W 04084	---
77543	2"	1.35	W 40102	---
77489	3/4"x1/2"x1/2"	0.15	WB04043	---
77488	3/4" x 1/2" x 3/4"	0.19	WB04041	---
77486	3/4" x 3/4" x 1/2"	0.15	WB04033	---
77485	3/4"x3/4"x1"	0.25	W 04065	---
77501	1"x1/2"x1"	0.34	W 04061	---
77499	1"x3/4"x3/4"	0.31	W 04056	---
77496	1"x1"x1/2"	0.24	WB04051	---
77493	1"x1"x3/4"	0.29	WB04049	---
77523	1 -1/2" x 1-1/2" x 3/4"	0.51	W 04087	---
77522	1-1/2" x 1-1/2" x1"	0.60	W 04086	---
77547	2"x2"x1"	0.99	W 40105	---

WT-600 611

DROP EAR ELBOWS

• Lead Free Bronze

• Lead Free Brass

PART #	SWT X FIP	LIST PRICE
44840LF	1/2 x 1/2 Bronze	---
44841LF	1/2 x 1/2 Brass	---
44842LF	3/4 x 1/2 Brass	---
44843LF	3/4 x 3/4 Brass	---

• Lead Free Brass

PART #	SWT X SWT	LIST PRICE
44844LF	1/2 x 1/2	---

• Lead Free Bronze

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PLASTIC FITTINGS

SCH 80 PVC NIPPLES

Machined Schedule 80 PVC nipples comply fully with ASTM D2464, threads conform to ASTM F1498, and the pipe is extruded from PVC 1120-1220 meeting ASTM D1784 and meets ASTM D1785, products standard 21-70

PIPE FITTINGS

- Nylon
- Polyethylene
- Polypropylene

HOSE BARB FITTINGS

- Nylon
- Polyethylene
- Polypropylene

NYLON & POLYPROPYLENE COMPRESSION FITTINGS

Machined Schedule 80 PVC nipples comply fully with ASTM D2464,

POLYPROPYLENE PUSH-IN TUBE FITTINGS AND VALVES

- NSF 61 certified for use with drinking (potable) water
- Max Temperature: 140°F
- Max Pressure: Not Rated

GARDEN HOSE FITTINGS

- Nylon

SCH 40 PVC FITTINGS

- NSF 61 certified for use with drinking (potable) water
- Max Temperature: 140°F
- Max Pressure: Not Rated

Resistant to corrosion, strong and rigid - commonly used in low pressure plumbing applications. ASTM D1784 and D2466.

SCH 80 PVC FITTINGS

PVC Material is Type 1 according to the American Society for Testing Materials (ASTM) D-1784. Fittings conform to ASTM D-2464 & ASTM D-2467. Temperature rating is 140°F. PSI is based on water at 73°F. Derate 50% at 110°F and 78% at 140°F. Not recommended for use in compressed air or gas systems.

SEE MIDLAND BLANKET ORDER PROGRAM FOR PVC FITTINGS

SCHEDULE 80 PVC NIPPLES

Machined Schedule 80 PVC nipples comply fully with ASTM D2464, threads conform to ASTM F1498, and the pipe is extruded from PVC 1120-1220 meeting ASTM D1784 and meets ASTM D1785, products standard 21-70

- Dark Grey
- NSF-61 Cert.

1/2" DIAMETER 420 PSI

PART #	LENGTH	LIST PRICE
55060	X Close (1-1/8")	---
55061	1-1/2"	---
55062	2"	---
55063	2-1/2"	---
55064	3"	---
55065	3-1/2"	---
55066	4"	---
55067	4-1/2"	---
55068	5"	---
55069	5-1/2"	---
55070	6"	---
55072	8"	---
55074	10"	---
55075	11"	---
55076	12"	---
	18"	---
55241	24"	---

3/4" DIAMETER 340 PSI

PART #	LENGTH	LIST PRICE
55080	x Close (1-3/8")	---
55081	1-1/2"	---
55082	2"	---
55083	2-1/2"	---
55084	3"	---
55085	3-1/2"	---
55086	4"	---
55087	4-1/2"	---
55088	5"	---
55089	5-1/2"	---
55090	6"	---
55092	8"	---
55093	10"	---
55096	12"	---
55097	18"	---
55098	24"	---

1" DIAMETER 315 PSI

PART #	LENGTH	LIST PRICE
55100	X Close (1-1/2")	---
55101	2"	---
55102	2-1/2"	---
55103	3"	---
55104	3-1/2"	---
55105	4"	---
55106	4-1/2"	---
55107	5"	---
55108	5-1/2"	---
55109	6"	---
55111	8"	---
55115	12"	---
55116	18"	---
55117	36"	---

1-1/4" DIAMETER 210 PSI

PART #	LENGTH	LIST PRICE
55120	X Close (1-5/8")	---
55121	2"	---
55122	2-1/2"	---
55123	3"	---
55124	3-1/2"	---
55125	4"	---
55126	4-1/2"	---
55127	5"	---
55128	5-1/2"	---
55129	6"	---
55132	12"	---

PLASTIC PIPE

PLASTIC FITTINGS

1-1/2" DIAMETER 234 PSI

PART	LENGTH	
55140	X Close (1-5/8")	---
55141	2"	---
55142	2-1/2"	---
55143	3"	---
55144	3-1/2"	---
55145	4"	---
55146	4-1/2"	---
55147	5"	---
55148	5-1/2"	---
55149	6"	---
55150	8"	---
55151	12"	---

2" DIAMETER 200 PSI

PART #	LENGTH	LIST PRICE
55160	X Close (2")	---
55161	2-1/2"	---
55162	3"	---
55163	3-1/2"	---
55164	4"	---
55165	4-1/2"	---
55166	5"	---
55167	5-1/2"	---
55168	6"	---
55170	8"	---
55174	12"	---
55179	60"	---

3" DIAMETER

PART #	LENGTH	BOX QTY	LIST PRICE
55200	x Close	25	---
55201	3"	20	---
55203	4"	30	---
55205	5"	20	---
55207	6"	20	---
55209	8"	10	---
55211	10"	10	---
55213	12"	10	---

PIPE-NYLON POLY

AVAILABLE IN THREE TYPES OF PLASTIC

(W) White Nylon

Made from virgin grade formulated to resist physical stress and abrasion. This material meets F.D.A. requirements of Code of Federal Regulation part 177.1500 and is therefore suitable for food contact surfaces.
Temperature Range: -40^{0}F to 200^0 F
Working Pressure: 125 PSI maximum.

ELBOW

P

POLYPROPYLENE ELBOWS

PART #	SIZE	LIST PRICE
28702P	3/8"	---
28704P	3/4"	---

W

NYLON ELBOWS

PART #	SIZE	LIST PRICE
28703W	1/2"	---
28704W	3/4"	---
28705W	1"	---
28706W	1-1/4"	---
28707W	1-1/2"	---
28708W	2"	----

TEE

P

POLYPROPYLENE TEES

PART #	SIZE	LIST PRICE
28741P	1/4"	---
28742P	3/8"	---
28743P	1/2"	---
28744P	3/4"	---

(B) Black Polyethylene

Made from a high molecular weight linear polyethylene formulated for chemical compatibility and high impact resistance at lower temeratures. Polyethylene is NSF approved for potable water.
Temperature Range: -65^{0}F to 190^{0}F
Working Pressure: 125 PSI maximum.

W

NYLON TEES

PART #	SIZE	LIST PRICE
28741W	1/4"	---
28743W	1/2"	---
28744W	3/4"	---
28745W	1"	---
28746W	1-1/4"	---
28747W	1-1/2"	---
28748W	2"	----

STREET ELBOW

P

POLYPROPYLENE STREET ELBOW

PART #	SIZE	LIST PRICE
28819P	1/8"	---
28723P	1/2"	---
28820P	2"	---

W

NYLON STREET ELBOW

PART #	SIZE	LIST PRICE
28819W	1/8"	---
28720W	1/4"	---
28721W	3/8"	---
28723W	1/2"	---
28724W	3/4"	---
28725W	1"	---
28726W	1-1/4"	---
28727W	1-1/2"	---
28820W	2"	---

(P) Polypropylene

Made from the finest polypropylene resins. Polypropylene is used for its resistance to a wide range of chemicals. Working pressures decrease as temperatures increase.
- NSF-approved materials
- FDA-approved materials

Note: Do not use with compressed air or gas.

- 10% Fiberglass fill for extra strength

HEX HEAD PLUGS

- Cored

B

POLYETHYLENE PLUGS

PART #	SIZE	LIST PRICE
28601B	1/8"	---
28602B	1/4"	---
28603B	3/8"	---
28604B	1/2"	---
28605B	3/4"	---

W

NYLON PLUGS

PART #	SIZE	LIST PRICE
28601W	1/8"	---
28602W	1/4"	---
28603W	3/8"	---
28604W	1/2"	---
28605W	3/4"	---
28606W	1"	---
28607W	1-1/4"	---
28608W	1-1/2"	---
28609W	2 "	---

PLASTIC PIPE
PLASTIC FITTINGS

HEX BUSHING

P

POLYPROPYLENE BUSHINGS

PART #	SIZE	LIST PRICE
28659P	1/4 x 1/8"	---
28660P	3/8 x 1/8"	---
28661P	3/8 x 1/4"	---
28811P	1/2 x 1/8"	---
28663P	1/2 x 1/4"	---
28664P	1/2 x 3/8"	---
28666P	3/4 x 1/4"	---
28668P	3/4 x 1/2"	---
28671P	1 x 1/2"	---
28672P	1 x 3/4"	---
28675P	1-1/4" x 1"	---
28814P	1-1/2" x 1/2"	---
28678P	1-1/2 x 3/4"	---
28680P	1-1/2 x 1-1/4"	---
28816P	2 x 1-1/4"	---

W

NYLON BUSHINGS

PART #	SIZE	LIST PRICE
28659W	1/4 x 1/8"	---
28660W	3/8 x 1/8"	---
28661W	3/8 x 1/4"	---
28663W	1/2 x 1/4"	---
28664W	1/2 x 3/8"	---
28666W	3/4 x 1/4"	---
28667W	3/4 x 3/8"	---
28668W	3/4 x 1/2"	---
28671W	1 x 1/2"	---
28672W	1 x 3/4"	---
28674W	1-1/4 x 3/4"	---
28675W	1-1/4 x 1"	---
28678W	1-1/2 x 3/4"	---
28679W	1-1/2 x 1"	---
28680W	1-1/2 x 1-1/4"	---
28815W	2" x 1/2"	---
28682W	2 x 3/4"	---
28683W	2 x 1"	---
28685W	2 x 1-1/2"	---
28818W	3" x 2"	----

HEX NIPPLES

B

POLYETHYLENE HEX NIPPLES

PART #	SIZE	LIST PRICE
28611B	1/8"	---
28612B	1/4"	---
28613B	3/8"	---

P

POLYPROPYLENE HEX NIPPLES

PART #	SIZE	LIST PRICE
28612P	1/4"	---
28613P	3/8"	---
28614P	1/2"	---
28615P	3/4"	---

W

NYLON HEX NIPPLES

PART #	SIZE	LIST PRICE
28611W	1/8"	---
28612W	1/4"	---
28613W	3/8"	---
28614W	1/2"	---
28615W	3/4"	---
28616W	1"	---
28617W	1 1/4 "	---
28618W	1 1/2"	---

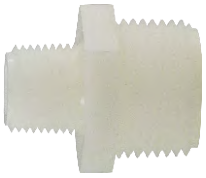
REDUCER NIPPLES

B

POLYETHYLENE HEX NIPPLES

PART #	SIZE	LIST PRICE
28623B	1/2 x 1/4"	---
28624B	1/2 x 3/8"	---
28628B	3/4 x 3/8"	---

W



NYLON REDUCING HEX NIPPLES

PART #	SIZE	LIST PRICE
28620W	1/4 x 1/8"	---
28622W	3/8 x 1/4"	---
28623W	1/2 x 1/4"	---
28624W	1/2 x 3/8"	---
28628W	3/4 x 3/8"	---
28625W	3/4 x 1/2"	---
28663W	1-1/4 x 1"	---

P = Polypropylene
W = White Nylon
B = Black Polyethylene

PLASTIC PIPE/ HOSE BARB

PLASTIC FITTINGS

COUPLING

P

POLYPROPYLENE COUPLINGS

PART #	SIZE	LIST PRICE
28761P	1/4"	---
28762P	3/8"	---
28763P	1/2"	---
28764P	3/4"	---

W

NYLON COUPLINGS

PART #	SIZE	LIST PRICE
28761W	1/4"	---
28762W	3/8"	---
28763W	1/2"	---
28764W	3/4"	---
28765W	1"	---
28803W	1-1/4"	---
28767W	1-1/2"	---
28768W	2"	---

PIPE CAP

W

NYLON CAPS

PART #	SIZE	LIST PRICE
28640W	1/4"	---
28641W	3/8"	---
28642W	1/2"	---

PLASTIC BULKHEAD FITTINGS

P

20% Glass Filled Polypropylene w/ Santoprene Gasket

PART #	FPT	HOLE	LIST PRICE
28693P	1/2"	1-3/8"	---
28694P	3/4"	1-3/8"	---
28695P	1"	1-3/4"	---
28696P	1-1/4"	2"	---
28697P	1-1/2"	3"	---
28698P	2"	3"	---

P = Polypropylene
W = White Nylon
B = Black Polyethylene

MALE ADAPTERS

B

POLYETHYLENE BARB X MALE PIPE

PART #	SIZE	LIST PRICE
33002B	3/16 x 1/8"	---
33003B	3/16 x 1/4"	---
33004B	1/4 x 1/8"	---
33005B	1/4 x 1/4"	---
33006B	1/4 x 3/8"	---
33007B	1/4 x 1/2"	---
33008B	5/16 x 1/8"	---
33009B	5/16 x 1/4"	---
33012B	3/8 x 1/4"	---
33013B	3/8 x 3/8"	---
33014B	3/8 x 1/2"	---
33026B	3/8 x 3/4"	---
33015B	1/2 x 1/4"	---
33016B	1/2 x 3/8"	---
33017B	1/2 x 1/2"	---
33018B	1/2 x 3/4"	---
33020B	5/8 x 1/2"	---
33021B	5/8 x 3/4"	---
33022B	3/4 x 1/2"	---
33023B	3/4 x 3/4"	---
33024B	1 x 3/4"	---

P

POLYPROPYLENE HOSE BARB
Hose ID x MIP

PART #	SIZE	LIST PRICE
33012P	3/8 x 1/4"	---
33013P	3/8 x 3/8"	---
33014P	3/8 x 1/2"	---
33015P	1/2 x 1/4"	---
33016P	1/2 x 3/8"	---
33017P	1/2 x 1/2"	---
33018P	1/2 x 3/4"	---
33020P	5/8 x 1/2"	---
33022P	3/4 x 1/2"	---
33023P	3/4 x 3/4"	---
33000P	3/4 x 1"	---
33024P	1 x 3/4"	---
33025P	1 x 1"	---

PLASTIC BARBS
PLASTIC FITTINGS

W

NYLON BARB MALE ADAPTERS
Hose ID x MIP

PART #	SIZE	LIST PRICE
33002W	3/16 x 1/8"	---
33003W	3/16 x 1/4"	---
33004W	1/4 x 1/8"	---
33005W	1/4 x 1/4"	---
33006W	1/4 x 3/8"	---
33007W	1/4 x 1/2"	---
33380W	1/4 x 3/4"	---
33008W	5/16 x 1/8"	---
33009W	5/16 x 1/4"	---
33010W	5/16 x 3/8"	---
33011W	3/8 X 1/8"	---
33012W	3/8 x 1/4"	---
33013W	3/8 x 3/8"	---
33014W	3/8 x 1/2"	---
33026W	3/8 x 3/4"	---
33015W	1/2 x 1/4"	---
33016W	1/2 x 3/8"	---
33017W	1/2 x 1/2"	---
33018W	1/2 x 3/4"	---
33303W	1/2" x 1"	---
33019W	5/8 x 3/8"	---
33020W	5/8 x 1/2"	---
33021W	5/8 x 3/4"	---
33306W	3/4" x 3/8"	---
33022W	3/4 x 1/2"	---
33023W	3/4 x 3/4"	---
33000W	3/4 x 1"	---
33318W	3/4" x 1-1/4"	---
33024W	1 x 3/4"	---
33025W	1 x 1"	---
33029W	1 x 1-1/4"	---
33320W	1" x 1-1/2"	---
33027W	1-1/8" x 1"	
33028W	1-1/4 x 1"	---
33030W	1-1/4 x 1-1/4"	---
33032W	1-1/4 x 1-1/2"	---
33321W	1-1/2" x 1-1/4"	---
33033W	1-1/2 x 1-1/2"	---
33322W	2" x 1-1/2"	----
33035W	2 x 2"	----

ELBOWS

B

POLYETHYLENE ELBOWS
Hose ID x MALE PIPE

PART #	SIZE	LIST PRICE
33308B	3/16 x 1/8	---
33038B	1/4 x 1/8	---
33039B	1/4 x 1/4	---
33309B	1/4 x 3/8	---
33046B	3/8 x 1/8	---
33041B	3/8 x 1/4	---
33042B	3/8 x 3/8	---
33047B	3/8 x 1/2	---
33043B	1/2 x 3/8	---
33311B	1/2 x 1/2	---
33385B	1/2 x 3/4	---
33044B	5/8 x 3/8	---
33045B	5/8 x 1/2	---
33312B	5/8 x 3/4	---
33313B	3/4 x 1/2	---
33314B	3/4 x 3/4	---

P

POLYPROPYLENE BARB ELBOW

PART #	SIZE	LIST PRICE
33048P	1/2 x 1/4	---
33311P	1/2 x 1/2	---
33385P	1/2 x 3/4	---
33313P	3/4 x 1/2	---
33314P	3/4 x 3/4	---
33316P	1 x 1	---
33334P	1-1/4 x 1	---
33461P	1-1/4 x 1-1/4	---

W

NYLON BARB X MIP ELBOWS

PART #	SIZE	LIST PRICE
33381W	3/16 x 1/4	---
33038W	1/4 x 1/8	---
33039W	1/4 x 1/4	---
33309W	1/4 x 3/8	---
33351W	1/4 x 1/2	---
33040W	5/16 x 1/4	---
33310W	5/16 x 3/8	---
33046W	3/8 x 1/8	---
33041W	3/8 x 1/4	---
33042W	3/8 x 3/8	---
33047W	3/8 x 1/2	---
33384W	3/8 x 3/4	---
33048W	1/2 x 1/4	---
33043W	1/2 x 3/8	---
33311W	1/2 x 1/2	---
33385W	1/2 x 3/4	---
33044W	5/8 x 3/8	---
33045W	5/8 x 1/2	---
33312W	5/8 x 3/4	---
33329W	5/8" x 1"	---
33313W	3/4 x 1/2	---
33314W	3/4 x 3/4	---
33315W	3/4 x 1	---
33386W	1x3/4	---
33316W	1 x 1	---
33460W	1 x 1-1/4	---
33050W	1-1/8" x 1"	
33461W	1-1/4 x 1-1/4	---
33462W	1-1/2 x 1-1/4	---
33463W	1-1/2 x 1-1/2	---

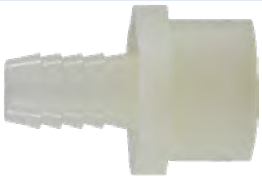
P = Polypropylene
W = White Nylon
B = Black Polyethylene

HOSE BARB X FE ADAPTERS

B

POLYETHYLENE ADAPTER
Hose ID x FIP

PART #	SIZE	LIST PRICE
33053B	1/4 x 1/4"	---



W

NYLON ADAPTER
Barb x FIP

PART #	SIZE	LIST PRICE
33052W	1/4 x 1/8"	---
33053W	1/4 x 1/4"	---
33058W	3/8 x 1/4"	---
33059W	3/8 x 3/8"	---
33060W	3/8 x 1/2"	---
33442W	3/8 x 3/4"	---
33066W	1/2 x 1/4"	---
33062P	1/2 x 3/8"	----
33061W	1/2 x 1/2"	---
33067W	1/2 x 3/4"	---
33068W	5/8 x 1/2"	---
33063W	5/8 x 3/4"	---
33064W	3/4 x 1/2"	---

HOSE BARB X FE ELBOW

P

W

NYLON ELBOW
Hose ID x Female Pipe

PART #	SIZE	LIST PRICE
33342W	3/8 x 1/2"	---
33402W	1/2 x 3/8"	---
33343P	1/2 x 1/2"	---
33343W	1/2 x 1/2"	---
33344P	5/8 x 3/4"	---
33344W	5/8 x 3/4"	---
33470W	5/8 x 1/2"	---
33345W	3/4 x 1/2"	---
33471W	3/4 x 3/4"	---
33471P	3/4 x 3/4"	----

UNION ELBOWS

B

POLYETHYLENE ELBOW

PART #	SIZE	LIST PRICE
33390B	1/4	---
33391B	3/8	---
33394B	1/2	---
33395B	5/8	---

W

NYLON ELBOW

PART #	SIZE	LIST PRICE
33390W	1/4	---
33391W	3/8	---
33394W	1/2	---
33395W	5/8	---
33396W	3/4	---
33397W	1	---
33398W	1-1/4	---
33399W	1-1/2	---

SPLICERS

B

POLYETHYLENE SPLICER

PART #	SIZE	LIST PRICE
33091B	1/8	---
33092B	3/16	---
33093B	1/4	---
33095B	3/8	---
33096B	1/2	---
33097B	5/8	---

POLYPROPYLENE SPLICER

PART #	SIZE	LIST PRICE
33095P	3/8	---
33096P	1/2	---
33098P	3/4	---

SPLICERS

W

NYLON SPLICES

PART #	SIZE	LIST PRICE
33091W	1/8	---
33092W	3/16	---
33093W	1/4	---
33094W	5/16	---
33095W	3/8	---
33096W	1/2	---
33097W	5/8	---
33098W	3/4	---
33099W	1	---
33480W	1-1/4	---
33481W	1-1/2	---

REDUCING SPLICERS

B

POLYETHYLENE SPLICES

PART #	SIZE	LIST PRICE
33406B	3/8 x 1/4	---
33407B	1/2 x 1/4	---
33408B	1/2 x 3/8	---

W

NYLON SPLICES

PART #	SIZE	LIST PRICE
33079W	1/4 x 1/8	---
33347W	1/4 x 3/16	---
33406W	3/8 x 1/4	---
33348W	3/8 x 5/16	---
33407W	1/2 x 1/4	---
33408W	1/2 x 3/8	---
33409W	5/8 x 3/8	---
33410W	5/8 x 1/2	---
33089W	3/4 x 1/2	---

PLASTIC BARBS
PLASTIC FITTINGS

TEES BARBED ON ALL SIDES

B

POLYETHYLENE TEE

PART #	SIZE	LIST PRICE
33415B	1/8	---
33418B*	3/16	---
33420B	3/16	---
33422B	1/4	---
33426B	5/16	---
33429B	3/8	---
33433B	1/2	---
33436B	5/8	---
33437B	3/4	---

P

POLYPROPYLENE TEE

PART #	SIZE	LIST PRICE
33440P	1-1/2	---

ALL HOSE BARB "Y"

P

POLYPROPYLENE WYE

PART #	SIZE	LIST PRICE
33300P*	1/4"	---
33301P*	3/8"	---

***Natural Polypro**

W

NYLON WYE

PART #	SIZE	LIST PRICE
33301W	3/8"	---

W

NYLON TEE

PART #	SIZE	LIST PRICE
33415W	1/8	---
33417W	5/32	---
33420W	3/16	---
33422W	1/4	---
33426W	5/16	---
33429W	3/8	---
33433W	1/2	---
33436W	5/8	---
33437W	3/4	---
33438W	1	---
33439W	1-1/4	---
33440W	1-1/2	---

REDUCING TEES

1 2

B

3

POLYETHYLENE TEE

PART #	SIZE	LIST PRICE
33430B	1/2 x 1/2 x 3/8	---
33434B	1/2 x 1/2 x 5/8	---
33435B	3/4 x 3/4 x 1/2	---

1 2

W

3

NYLON TEE

PART #	SIZE	LIST PRICE
33430W	1/2 x 1/2 x 3/8	---
33431W	5/8 x 5/8 x 3/8	---
33432W	3/8 x 3/8 x 1/2	---
33435W	3/4 x 3/4 x 1/2	---

MALE BRANCH TEE

W

NYLON BRANCH TEE

PART #	SIZE	LIST PRICE
33448W	1/4 x 1/4	---
33450W	3/8 x 1/4	---
33451W	3/8 x 3/8	---
33454W	1/2 x 3/8	---
33455W	1/2 x 1/2	---
33456W	3/4 x 3/4	---

GARDEN HOSE

PLASTIC GARDEN HOSE FITTINGS

FITTINGS WITH GARDEN HOSE THREAD

GARDEN HOSE CAP

- Washer not included

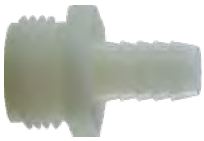
- White Nylon

P

PART #	SIZE	LIST PRICE
30103P	3/4"	---

GARDEN HOSE THREAD ADAPTERS

BARB X MALE GARDEN HOSE



- White Nylon

PART #	SIZE	LIST PRICE
31038	1/4"	---
31039	3/8"	---
31040	1/2"	---
31041	5/8"	---
31042	3/4"	---

GARDEN HOSE ADAPTER INSERTS

- for assembly with 31-022

- White Nylon

PART #	SIZE	LIST PRICE
31030	1/4"	---
31031	3/8"	---
31032	1/2"	---
31033	5/8"	---
31034	3/4"	---

GARDEN HOSE NUT

- White Nylon

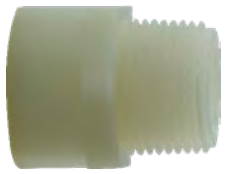
PART #	SIZE	LIST PRICE
31022	3/4"	---

MALE GARDEN HOSE X FEMALE PIPE

- White Nylon

PART #	SIZE	LIST PRICE
31067	MGH X 1/4	---
31068	MGH X 1/2 FIP	---
31069	MGH X 3/4	---

FEMALE GARDEN HOSE X MALE PIPE



- White Nylon

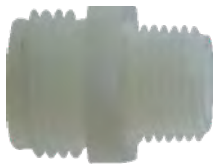
PART #	SIZE	LIST PRICE
31093	FGH X 3/4 MPT	---
31095	FGH X 3/4 MGH	---

FEMALE GARDEN HOSE X FEMALE PIPE

- White Nylon

PART #	SIZE	LIST PRICE
31096	FGH X 1/2 FIP	---

MALE GARDEN HOSE X MALE PIPE



- White Nylon

PART #	SIZE	LIST PRICE
31055	GHT X 3/8 MPT	---
31058	GHT X 1/2 MPT	---
31063	GHT X 3/4 MPT	---
31064	GHT X 1 MPT	---

PLASTIC COMPRESSION
PLASTIC FITTINGS

PLASTIC COMPRESSION FITTINGS

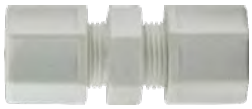
Corrosion resistant thermoresins designed to resist vibration, provide good electrical insulation, low flow resistance, and resistance to scale buildup.

The letter on the end of part no. denotes the type.
N = Nylon
P = Polypropylene
Standard nut and sleeves will be provided (sleeve is integral part of nut). Other sizes available upon request.

FDA and NSF Listed

UNION & REDUCING UNION CONNECTORS

P



PART #	SIZE	LIST PRICE
17064P	1/4"	---
17066P	3/8"	---
17079P	3/8" x 1/4"	---
17068P	1/2"	---

▪ Nylon

PART #	SIZE	LIST PRICE
17064N	1/4"	---
17065N	5/16"	---
17078N	5/16" x 1/4"	---
17066N	3/8"	---
17079N	3/8" x 1/4"	---

BULKHEAD UNIONS

▪ Nylon

PART #	SIZE	LIST PRICE
17088N	1/4"	---
17090N	3/8"	---

UNION TEES

▪ Nylon

PART #	SIZE	LIST PRICE
17103N	1/4"	---
17105N	3/8"	---

UNION ELBOWS

P

PART #	SIZE	LIST PRICE
17124P	1/4"	---
17126P	3/8"	---

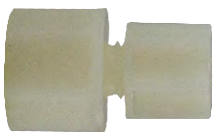
▪ Nylon

PART #	SIZE	LIST PRICE
17124N	1/4"	---

FEMALE CONNECTORS

P

PART #	SIZE	LIST PRICE
17145P	1/4 x 1/8	---
17153P	3/8 x 1/4	---
17154P	3/8 x 3/8	---
17158P	1/2 x 3/8	---



▪ Nylon

PART #	SIZE	LIST PRICE
17146N	1/4 x 1/4	---
17153N	3/8 x 1/4	---

MALE CONNECTORS

P

PART #	SIZE	LIST PRICE
17179P	1/4 x 1/8	---
17180P	1/4 x 1/4	---
17188P	3/8 x 1/4	---
17189P	3/8 x 3/8	---
17190P	3/8 x 1/2	---
17193P	1/2 x 1/4	---
17194P	1/2 x 3/8	---

▪ Nylon

PART #	SIZE	LIST PRICE
17176N	1/8 x 1/8"	
17179N	1/4 x 1/8	---
17180N	1/4 x 1/4	---
17188N	3/8 x 1/4	---
17189N	3/8 x 3/8	---
17190N	3/8 x 1/2	---
17193N	1/2 x 1/4	---
17194N	1/2 x 3/8	---

MALE ELBOWS

P

PART #	SIZE	LIST PRICE
17225P	1/4 x 1/4	---
17233P	3/8 x 1/4	---
17234P	3/8 x 3/8	---
17237P	1/2 x 3/8	---

▪ Nylon

PART #	SIZE	LIST PRICE
17224N	1/4 x 1/8	---
17225N	1/4 x 1/4	---
17233N	3/8 x 1/4	---
17234N	3/8 x 3/8	---
17237N	1/2 x 3/8	---

PLASTIC PUSH-IN TUBE FITTINGS

Manufactured from safe, non-toxic materials meeting the requirements of the US FDA, WRAS, ANSI/NSF-51, 61, and SK Zert. Our products are widely used in water purification, food/beverage and pneumatic systems.

- Function & Quality : provides quick and convenient assembly - saving time & expense. Our ISO9001, 14001 registered quality system ensures our customers a superior level of product quality. Defects are easily detectable and maintenance is easy with its easy dismantling for access.
- Collet Design : Unique oval collet design is superior and more practical.
- Applications : Beyond water and food use, fittings can be used with air, gases, vacuum, & liquids. And all connections can be assembled & disassembled repeatedly.
- Material : Grey Acetal Copolymer, also known as POM. Highly durable and resistant to fatigue and creep. It has high resistance to a wide range of organic & inorganic chemicals and detergents. Not recommended for use with strong acids or repeated exposure to strong oxidizers. (polypropylene may be subbed)

SIZE / Temperature	Small Size						Large Size				
	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	7/8"			28mm
	4mm	5mm	6mm	8mm	10mm	12mm	15mm	16mm	18mm	22mm	
1°C (34°F)	16bar (230PSI)				11bar (170PSI)		11bar (170PSI)				
20°C (68°F)	16bar (230PSI)				11bar (170PSI)		11bar (170PSI)				
65°C (150°F)	10bar (150PSI)				7bar (100PSI)		7bar (100PSI)				

- Fittings are not recommended for use with liquids other than water and food or beverage products.
- Do not use pipe dope or other liquid thread sealers. Use only Teflon tape to seal threaded connections.
- After assembling a tube connection, tug with moderate force to check for proper gripping of the tube.
- Before disassembling tube connections, always verify that pressure has been removed from the system.

UNION CONNECTOR

PART #	TUBE OD	LIST PRICE
20018P	5/32"	---
20019P	1/4"	---
20020P	3/8"	---
20021P	1/2"	---

UNION TEE

PART #	TUBE OD	LIST PRICE
20028P	1/4"	---
20029P	3/8"	---
20030P	1/2"	---

UNION ELBOW

PART #	TUBE OD	LIST PRICE
20152P	1/4"	---
20153P	3/8"	---
20154P	1/2"	---

REDUCING UNION

PART #	TUBE OD	TUBE OD	LIST PRICE
20750P	1/4"	3/16"	---
20755P	3/8"	1/4"	---
20756P	3/8"	5/16"	---
20758P	1/2"	3/8"	---

REDUCING BRANCH TEE

PART #	TUBE OD 1	TUBE OD 2	LIST PRICE
20725P	3/8"	1/4"	---
20724P	1/2"	3/8"	---

REDUCING ELBOW

PART #	TUBE OD	TUBE OD	LIST PRICE
20734P	3/8"	1/4"	---
20736P	1/2"	3/8"	---

BULKHEAD UNION

PART #	TUBE OD	LIST PRICE
20127P	1/4"	---
20128P	3/8"	---
20129P	1/2"	----

PLASTIC PUSH-IN
PLASTIC FITTINGS

FEMALE CONNECTOR

Female Pipe

PART #	TUBE OD	THREAD NPTF	LIST PRICE
20993P	1/4"	1/8"	---
20035P	1/4"	1/4"	---
20944P	3/8"	1/8"	---
20036P	3/8"	1/4"	---

Female Flare

PART #	TUBE OD	FE FLARE	LIST PRICE
20936P	1/4"	1/4"	---
20937P	3/8"	1/4"	---
20938P	3/8"	3/8"	---

Female UNS Cone Type

PART #	TUBE OD	UNS	LIST PRICE
20939P	1/4"	7/16"	---
20940P	3/8"	7/16"	---

Female Comp

PART #	TUBE OD	FE COMP	LIST PRICE
20941P	3/8"	9/16-24"	---

20-152P + 20-525P = 20973P

MALE CONNECTOR

Male Pipe

PART #	TUBE OD	THREAD NPTF	LIST
20050P	5/32"	1/8"	---
20054P	1/4"	1/8"	---
20055P	1/4"	1/4"	---
20056P	1/4"	3/8"	---
20057P	3/8"	1/8"	---
20058P	3/8"	1/4"	---
20059P	3/8"	3/8"	---
20062P	3/8"	1/2"	---
20061P	1/2"	3/8"	---
20063P	1/2"	1/2"	---

Male BSP

AMCB

PART #	TUBE OD	BSP	LIST
20958P	3/8"	3/8"	---

AMCF

PART #	TUBE OD	MALE FLARE	LIST
20960P	3/8"	1/4"	---
20961P	3/8"	1/2"	---

STEM ADAPTER

Part #	stem OD	Thread NPTF	List Price
20524P	1/4"	1/8"	---
20525P	1/4"	1/4"	---
20528P	3/8"	1/4"	---
20529P	3/8"	3/8"	---

REDUCER

PART #	TUBE OD 1	STEM OD 2	LIST PRICE
20512P	3/8"	1/4"	---
20763P	3/8"	5/16"	---
20514P	1/2"	3/8"	---

TUBE BARB CONNECTOR

ATBC

PART #	STEM OD	HOSE BARB ID	LIST PRICE
20964P	1/4"	1/4"	---
20965P	3/8"	1/4"	---
20966P	3/8"	3/8"	---
20967P	3/8"	1/2"	---
20968P	1/2"	3/8"	---
20969P	1/2"	1/2"	---

FIXED ELBOW

Part #	Tube OD	Thread NPTF	List Price
20068P	1/4"	1/8"	---
20069P	1/4"	1/4"	---
20070P	1/4"	3/8"	---
20072P	3/8"	1/4"	---
20073P	3/8"	3/8"	---

SWIVEL ELBOW

Union Elbow + Stem Adapter

AMES

PART #	STEM OD	TUBE ID	LIST PRICE
20973P	1/4"	1/4"	----
20974P	3/8"	3/8"	----

PLUG-IN ELBOW

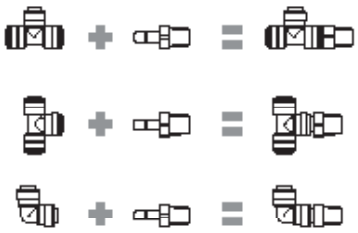
PART #	TUBE OD	STEM	LIST PRICE
20740P	5/32"	5/32"	---
20742P	1/4"	1/4"	---
20745P	3/8"	1/4"	---
20747P	3/8"	3/8"	---
20748P	1/2"	1/2"	---

TUBE ELBOW BARB CONNECTOR

PART #	STEM OD	HB ID	LIST PRICE
20970P	1/4"	1/4"	---
20971P	3/8"	1/4"	---
20972P	3/8"	3/8"	---

ADAPTABILITY

- For maximum flexibility, fittings may be combined to provide wider functions.
- Unlike some competitors products, separation and reuse is easy.



2-WAY DIVIDER

PART #	TUBE OD	LIST PRICE
20775P	1/4"	----
20776P	5/16"	---
20777P	3/8"	---

PLUG

PART #	TUBE OD	LIST PRICE
20876P	5/32"	---
20878P	1/4"	---
20880P	3/8"	---
20881P	1/2"	---

TUBE END STOP

PART #	TUBE OD	LIST PRICE
20925P	1/4"	---

PART #	TUBE OD	FGH	LIST PRICE
20950P	1/4"	3/4"	---
20951P	3/8"	3/4"	---

PART #	TUBE OD	BSP	LIST PRICE
20953P	1/4"	1/2"	---
20954P	1/4"	3/4"	---
20955P	3/8"	3/4"	---
20956P	5/8"	3/4"	---

PL X PL

PART #	TUBE OD	LIST PRICE
20900P	1/4"	---
20901P	3/8"	---

PL X MALE NPTF

PART #	TUBE OD	MALE THREAD NPTF	LIST
20904P	1/4"	1/4"	---
20905P	3/8"	3/8"	---

PLASTIC PUSH-IN
PLASTIC FITTINGS

CHECK VALVE

PART #	TUBE OD	LIST PRICE
20778P	1/4"	---

STOP VALVES

CONNECTOR: Flows in both directions by connection.

DISCONNECTOR: Stop flows in both directions by with separation where pulling to the open position.

ASTVBU

PART #	TUBE OD	LIST PRICE
20910P	1/4"	---

LOCKING CLIP

ALC

PART #		LIST PRICE
20975P	1/4"	---
20976P	3/8"	---
20977P	1/2"	---

FLOW BEND CLIP

AFBC

PART #		LIST PRICE
20980P	1/4"	---
20981P	3/8"	---

SPANNER

PART #	SIZES	LIST PRICE
20983P	3/16,1/4,5/16 3/8,1/2	---

STOP & FAUCET ADAPTER VALVES

AV range of Stop & Faucet Valve Adaptor valves and Slip Tee Valves are manufactured in white Polypropylene, reinforced plastic with EPDM O-rings which provides value- added advantages in the installation of water supply line mainly.

AV range of Stop & Faucet Valve Adaptors and Slip Tee Valves are designed for use in drinking water systems, Refrigerators, Ice-Makers, Humidifiers and Water filtration applications, etc.,. Our valves offer greater efficiency than any traditional valves.
AV valves have been approved in NSF/ANSI 61 & 372.
AV range is 1/4" Turn valves.

STOP VALVE ADAPTER

3/8 MALE COMP X
3/8 FEMALE COMP

PART #	TUBE OD	LIST PRICE
20985P	1/4"	---
20986P	3/8"	---

SLIPTEE VALVE

PART #	RUN X RUN	BRANCH	LIST PRICE
20988P	5/8"	1/4"	---
20989P	5/8"	3/8"	---
20990P	7/8"	1/4"	---

HOSE ACCESSORIES

CAM AND GROOVE

ALUMINIUM

POLYPROPLYENE

STAINLESS STEEL

BRASS

COMBINATION HOSE NIPPLES

FIRE HOSE FITTINGS

UNIVERSAL/ GROUND JOINT COUPLINGS

CAM AND GROOVE

MALE ADAPTER X FEMALE NPT
TYPE A

CGA
6191X

PART#	SIZE	LIST PRICE
CGA-050-A1	1/2"	---
CGA-075-A1	3/4"	---
CGA-100-A1	1"	---
CGA-125-A1	1-1/4"	---
CGA-150-A1	1-1/2"	---
*CGA-200-A1	2"	---
CGA-250-A1	2-1/2"	---
*CGA-300-A1	3"	---
*CGA-400-A1	4"	---
CGA-500-A1	5"	---
CGA-600-A1	6"	---
CGA-800-A1	8"	---
CGA-1000-A	10"	---

FEMALE COUPLER X HOSE SHANK
TYPE C

CGC
6193X

PART#	SIZE	LIST PRICE
CGC-050-A1	1/2"	---
CGC-075-A1	3/4"	---
CGC-100-A1	1"	---
CGC-125-A1	1-1/4"	---
CGC-150-A1	1-1/2"	---
*CGC-200-A1	2"	---
CGC-250-A1	2-1/2"	---
*CGC-300-A1	3"	---
*CGC-400-A1	4"	---
CGC-500-A1	5"	---
CGC-600-A1	6"	---
CGC-800-A1	8"	---
CGC-1000-A	10"	---

FEMALE COUPLER X MALE NPT
TYPE B

CGB
6192X

PART#	SIZE	LIST PRICE
CGB-050-A1	1/2"	---
CGB-075-A1	3/4"	---
CGB-100-A1	1"	---
CGB-125-A1	1-1/4"	---
CGB-150-A1	1-1/2"	---
CGB-200-A1	2"	---
CGB-250-A1	2-1/2"	---
CGB-300-A1	3"	---
*CGB-400-A1	4"	---
CGB-500-A1	5"	---
CGB-600-A1	6"	---
CGB-800-A1	8"	---
CGB-1000-A	10"	---

FEMALE COUPLER X FEMALE NPT
TYPE D

CGD
6194X

PART#	SIZE	LIST PRICE
CGD-050-A1	1/2"	---
CGD-075-A1	3/4"	---
CGD-100-A1	1"	---
CGD-125-A1	1-1/4"	---
CGD-150-A1	1-1/2"	---
*CGD-200-A1	2"	---
CGD-250-A1	2-1/2"	---
*CGD-300-A1	3"	---
*CGD-400-A1	4"	---
CGD-500-A1	5"	---
CGD-600-A1	6"	---
CGD-800-A1	8"	---
CGD-1000-A	10"	---

ALUMINUM CAM AND GROOVE
HOSE ACCESSORIES

MALE ADAPTER X HOSE SHANK
TYPE E

CGE
61-95X

PART#	SIZE	LIST PRICE
CGE-050-A1	1/2"	---
CGE-075-A1	3/4"	---
CGE-100-A1	1"	---
CGE-125-A1	1-1/4"	---
CGE-150-A1	1-1/2"	---
*CGE-200-A1	2"	---
CGE-250-A1	2-1/2"	---
*CGE-300-A1	3"	---
*CGE-400-A1	4"	---
CGE-500-A1	5″	---
CGE-600-A1	6″	---
CGE-800-A1	8"	---
CGE-1000-A	10"	---

DUST CAP
TYPE DC

CDC
61-97X

PART#	SIZE	LIST PRICE
CDC-050-A1	1/2"	---
CDC-075-A1	3/4"	---
CDC-100-A1	1"	---
CDC-125-A1	1-1/4"	---
CDC-150-A1	1-1/2"	---
*CDC-200-A1	2"	---
CDC-250-A1	2-1/2"	---
*CDC-300-A1	3"	---
*CDC-400-A1	4"	---
CDC-500-A1	5″	---
CDC-600-A1	6″	---
CDC-800-A1	8″	---
CDC-1000-A	10"	---

MALE ADAPTER X MALE NPT
TYPE F

CGF
61-96X

PART#	SIZE	LIST PRICE
CGF-050-A1	1/2"	---
CGF-075-A1	3/4"	---
CGF-100-A1	1"	---
CGF-125-A1	1-1/4"	---
CGF-150-A1	1-1/2"	---
*CGF-200-A1	2"	---
CGF-250-A1	2-1/2"	---
CGF-300-A1	3"	---
*CGF-400-A1	4"	---
CGF-500-A1	5″	---
CGF-600-A1	6″	---
CGF-800-A1	8″	---
CGF-1000-A	10"	---

DUST PLUG
TYPE DP

CDP
61-98X

PART#	SIZE	LIST PRICE
CDP-050-A1	1/2"	---
CDP-075-A1	3/4"	---
CDP-100-A1	1"	---
CDP-125-A1	1-1/4"	---
CDP-150-A1	1-1/2"	---
CDP-200-A1	2"	---
CDP-250-A1	2-1/2"	---
CDP-300-A1	3"	---
CDP-400-A1	4"	---
CDP-500-A1	5″	---
CDP-600-A1	6″	---
CDP-800-A1	8"	---
CDP-1000-A	10"	---

ALUMINUM (AL) SPOOL & PART A

MALE ADAPTER X MALE ADAPTER ALUMINUM SPOOL ADAPTER

SA-XXX-A
61910

PART#	SIZE	PART#	LIST PRICE
SA-100-A	1″	61872	---
SA-150-A	1-1/2″	*61873	---
SA-200-A	2″	*61874	---
SA-2030-A	2″ x 3″	*61875	---
SA-250-A	2-1/2″	61876	---
SA-300-A	3″	*61877	---
SA-3040-A	3″ x 4″	*61878	---
SA-400-A	4″	*61879	---

REDUCER ADAPTER FEMALE NPT ALUMINUM

CGA-XXX-A

MALE ADAPTER X FEMALE PIPE

PART#	SIZE	PART#	LIST PRICE
CGA-1520-A	1-1/2" x 2"		---
CGA-2015-A	2" x 1-1/2"		---
CGA-2030-A	2" x 3"	*61-851	---
CGA-3040-A	3" x 4"	*61-853	---
CGA-4030-A	4" x 3"	*61-854	---
*CGA-6040-A	6" x 4"		---

ALUMINUM SWIVEL

PART#	SIZE	LIST PRICE
CGASV-300-A	3"	---
CGASV-400-A	4"	---

REDUCER COUPLER M NPT PART B

CGB-XXX-A

FEMALE COUPLER X MALE PIPE

PART#	SIZE	PART#	LIST PRICE
CGB-3020-A	3" x 2"	61859	---
CGB-3040-A	3" x 4"	*61860	---
CGB-4030-A	4" x 3"	*61861	---

ALUMINUM 90° PART C

PART#	SIZE	LIST PRICE
CGC-1590-A	1-1/2"	---
CGC-2090-A	2"	---

REDUCER COUPLER SHANK PART C

CGC

PART#	SIZE	LIST PRICE
CGC-2015-A	2" x 1-1/2"	---
CGC-3020-A	3" x 2"	---
CGC-3025-A	3" x 2-1/2"	---
CGC-4030-A	4" x 3"	---

REDUCER COUPLER ADAPTER PART D

DA-XXX-A

FEMALE COUPLER X MALE ADAPTER

PART#	SIZE	PART#	LIST PRICE
DA-1510-A	1-1/2″ x 1″	619001	---
DA-1520-A	1-1/2″ x 2″	*619002	---
DA-2015-A	2″ x 1-1/2″	*619003	---
DA-2030-A	2" x 3"	*619004	---
DA-2040-A	2" x 4"	619005	---
DA-3015-A	3″ x 1-1/2″	619006	---
DA-3020-A	3″ x 2″	*619007	---
DA-3040-A	3″ x 4″	*619008	---
DA-4020-A	4" x 2"	*619009	---
DA-4030-A	4″ x 3″	*619010	---
DA-4060-A	4" x 6"	*619011	---

REDUCER COUPLER FEMALE NPT PART D

CGD

FEMALE COUPLER X FEMALE PIPE

PART#	SIZE	PART#	LIST PRICE
CGD-1510-A	1-1/2" x 1"	61865	---
CGD-2015-A	2" x 1-1/2"	61866	---
CGD-3020-A	3" x 2"	61867	---

SPOOL COUPLER PART D

DD

FEMALE COUPLER X FEMALE COUPLER

PART#	SIZE	PART#	LIST PRICE
*DD-1515-A	1-1/2" x 1-1/2"	*619440	---
*DD-2020-A	2" x 2"	*619450	---
*DD-2030-A	2" x 3"		---
*DD-3030-A	3" x 3"	*619470	---
*DD-3040-A	3" x 4"		---

SWIVEL PART D

FEMALE COUPLER X FEMALE PIPE

CGDSV

PART#	SIZE	LIST PRICE
*CGDSV-300-A	3"	---
*CGDSV-400-A	4"	---

REDUCER ADAPTER MALE NPT PART F

CGF

MALE ADAPTER X MIP

Part#	Size		List Price
CGF-1520-A	1-1/2" x 2"		---
*CGF-2030-A	2" x 3"		---
*CGF-3020-A	3" x 2"	61870	---
*CGF-3040-A	3" x 4"	61871	---
CGF-4030-A	4" x 3"		---
CGF-4060-A	4" x 6"		---

POLY CAM AND GROOVE
HOSE ACCESSORIES

POLYPROPYLENE (PP)

MALE ADAPTER X FEMALE NPT
TYPE A

35-91X

PART#	SIZE	LIST PRICE
CGA-050-PP	1/2"	---
CGA-075-PP	3/4"	---
CGA-100-PP	1"	---
CGA-125-PP	1-1/4"	---
CGA-150-PP	1-1/2"	---
*CGA-200-PP	2"	---
CGA-300-PP	3"	---
CGA-400-PP	4"	---

FEMALE COUPLER X MALE NPT
TYPE B

CGB
35-92X

PART#	SIZE	LIST PRICE
CGB-050-PP	1/2"	---
CGB-075-PP	3/4"	---
CGB-100-PP	1"	---
CGB-125-PP	1-1/4"	---
CGB-150-PP	1-1/2"	---
*CGB-200-PP	2"	---
*CGB-300-PP	3"	---
CGB-400-PP	4"	---

FEMALE COUPLER X HOSE SHANK
TYPE C

CGC
35-93X

PART#	SIZE	LIST PRICE
CGC-050-PP	1/2"	---
CGC-075-PP	3/4"	---
CGC-100-PP	1"	---
CGC-125-PP	1-1/4"	---
CGC-150-PP	1-1/2"	---
*CGC-200-PP	2"	---
*CGC-300-PP	3"	---
CGC-400-PP	4"	---

FEMALE COUPLER X FEMALE NPT
TYPE D

35-94X

PART#	SIZE	LIST PRICE
CGD-050-PP	1/2"	---
CGD-075-PP	3/4"	---
CGD-100-PP	1"	---
CGD-125-PP	1-1/4"	---
CGD-150-PP	1-1/2"	---
*CGD-200-PP	2"	---
CGD-300-PP	3"	---
CGD-400-PP	4"	---

MALE ADAPTER X HOSE SHANK TYPE E

35-95X

PART#	SIZE	LIST PRICE
CGE-050-PP	1/2"	---
CGE-075-PP	3/4"	---
CGE-100-PP	1"	---
CGE-125-PP	1-1/4"	---
CGE-150-PP	1-1/2"	---
*CGE-200-PP	2"	---
*CGE-300-PP	3"	---
CGE-400-PP	4"	---

MALE ADAPTER X MALE NPT TYPE F

35-96X

PART#	SIZE	LIST PRICE
CGF-050-PP	1/2"	---
CGF-075-PP	3/4"	---
CGF-100-PP	1"	---
CGF-125-PP	1-1/4"	---
CGF-150-PP	1-1/2"	---
*CGF-200-PP	2"	---
*CGF-300-PP	3"	---
CGF-400-PP	4"	---

DUST CAP TYPE DC

CDC
35-97X

PART#	SIZE	LIST PRICE
CDC-050-PP	1/2"	---
CDC-075-PP	3/4"	---
CDC-100-PP	1"	---
CDC-125-PP	1-1/4"	---
CDC-150-PP	1-1/2"	---
*CDC-200-PP	2"	---
*CDC-300-PP	3"	---
CDC-400-PP	4"	---

DUST PLUG TYPE DP

CDP
35-98X

PART#	SIZE	LIST PRICE
CDP-050-PP	1/2"	---
CDP-075-PP	3/4"	---
CDP-100-PP	1"	---
CDP-125-PP	1-1/4"	---
CDP-150-PP	1-1/2"	---
CDP-200-PP	2"	---
CDP-300-PP	3"	---
CDP-400-PP	4"	---

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STAINLESS STEEL CAM AND GROOVE #316

HOSE ACCESSORIES

MALE ADAPTER X FEMALE NPT
TYPE A

CGA
6391X

PART#	SIZE	LIST PRICE
CGA-050-SS1	1/2"	---
*CGA-075-SS1	3/4"	---
*CGA-100-SS1	1"	---
*CGA-125-SS1	1-1/4"	---
*CGA-150-SS1	1-1/2"	---
*CGA-200-SS1	2"	---
*CGA-250-SS1	2-1/2"	---
*CGA-300-SS1	3"	---
*CGA-400-SS1	4"	---
*CGA-500-SS1	5″	---
CGA-600-SS1	6″	---
CGA-800-SS1	8″	---

FEMALE COUPLER X MALE NPT
TYPE B

CGB
6392X

PART#	SIZE	LIST PRICE
CGB-050-SS1	1/2"	---
*CGB-075-SS1	3/4"	---
*CGB-100-SS1	1"	---
CGB-125-SS1	1-1/4"	---
*CGB-150-SS1	1-1/2"	---
*CGB-200-SS1	2"	---
CGB-250-SS1	2-1/2"	---
*CGB-300-SS1	3"	---
*CGB-400-SS1	4"	---
CGB-500-SS1	5″	---
CGB-600-SS1	6″	---
CGB-800-SS1	8"	---

FEMALE COUPLER X HOSE SHANK
TYPE C

CGC
6393X

PART#	SIZE	LIST PRICE
CGC-050-SS1	1/2"	---
*CGC-075-SS1	3/4"	---
*CGC-100-SS1	1"	---
*CGC-125-SS1	1-1/4"	---
*CGC-150-SS1	1-1/2"	---
*CGC-200-SS1	2"	---
CGC-250-SS1	2-1/2"	---
*CGC-300-SS1	3"	---
*CGC-400-SS1	4"	---
CGC-500-SS1	5″	---
*CGC-600-SS1	6″	---
CGC-800-SS1	8″	---

FEMALE COUPLER X FEMALE NPT
TYPE D

CGD
6394X

PART#	SIZE	LIST PRICE
*CGD-050-SS1	1/2"	---
*CGD-075-SS1	3/4"	---
*CGD-100-SS1	1"	---
*CGD-125-SS1	1-1/4"	---
*CGD-150-SS1	1-1/2"	---
*CGD-200-SS1	2"	---
*CGD-250-SS1	2-1/2"	---
*CGD-300-SS1	3"	---
*CGD-400-SS1	4"	---
*CGD-500-SS1	5″	---
CGD-600-SS1	6″	---

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STAINLESS STEEL CAM AND GROOVE #316

HOSE ACCESSORIES

MALE ADAPTER X HOSE SHANK TYPE E

SA
6395X

PART#	SIZE	LIST PRICE
CGE-050-SS1	1/2"	---
*CGE-075-SS1	3/4"	---
*CGE-100-SS1	1"	---
*CGE-125-SS1	1-1/4"	---
*CGE-150-SS1	1-1/2"	---
*CGE-200-SS1	2"	---
*CGE-250-SS1	2-1/2"	---
*CGE-300-SS1	3"	---
*CGE-400-SS1	4"	---
*CGE-500-SS1	5"	---
*CGE-600-SS1	6"	---
CGE-800-SS1	8"	---

DUST CAP TYPE DC

6397X

PART#	SIZE	LIST PRICE
CDC-050-SS1	1/2"	---
*CDC-075-SS1	3/4"	---
*CDC-100-SS1	1"	---
CDC-125-SS1	1-1/4"	---
*CDC-150-SS1	1-1/2"	---
*CDC-200-SS1	2"	---
CDC-250-SS1	2-1/2"	---
*CDC-300-SS1	3"	---
*CDC-400-SS1	4"	---
CDC-500-SS1	5"	---
CDC-600-SS1	6"	---
CDC-800-SS1	8"	---

MALE ADAPTER X MALE NPT TYPE F

CGF
6396X

PART#	SIZE	LIST PRICE
CGF-050-SS1	1/2"	---
*CGF-075-SS1	3/4"	---
*CGF-100-SS1	1"	---
CGF-125-SS1	1-1/4"	---
*CGF-150-SS1	1-1/2"	---
*CGF-200-SS1	2"	---
CGF-250-SS1	2-1/2"	---
*CGF-300-SS1	3"	---
*CGF-400-SS1	4"	---
CGF-500-SS1	5"	---
*CGF-600-SS1	6"	---
CGF-800-SS1	8"	---

DUST PLUG TYPE DP

6398X

PART#	SIZE	LIST PRICE
*CDP-050-SS1	1/2"	---
*CDP-075-SS1	3/4"	---
*CDP-100-SS1	1"	---
CDP-125-SS1	1-1/4"	---
*CDP-150-SS1	1-1/2"	---
*CDP-200-SS1	2"	---
CDP-250-SS1	2-1/2"	---
*CDP-300-SS1	3"	---
*CDP-400-SS1	4"	---
CDP-600-SS1	6"	---
CDP-800-SS1	8"	---

STAINLESS STEEL CAM AND GROOVE #316

HOSE ACCESSORIES

PART A SPOOL ADAPTER STAINLESS

PART#	SIZE	PART#	LIST PRICE
SA-100-SS	1"	63850	---
SA-150-SS	1-1/2"	63851	---
SA-1520-SS	1-1/2" x 2"	63852	---
SA-200-SS	2"	63853	---
SA-2030-SS	2" x 3"	63854	---
SA-300-SS	3"	63855	---
SA-3040-SS	3" x 4"	63856	---

PART D SPOOL COUPLER STAINLESS 316

PART#	SIZE	PART#	LIST PRICE
*DD-1515-SS	1-1/2" x 1-1/2"	639440	---
*DD-2020-SS	2" x 2"	639450	---
*DD-2030-SS	2" x 3"		---
*DD-3030-SS	3" x 3"	639470	---
*DD-3040-SS	3" x 4"		---
*DD-4040-SS	4" x 4"	639480	---

PART D REDUCER COUPLER ADAPTER STAINLESS 316

PART#	SIZE	PART#	LIST PRICE
*DA-2030-SS	2" x 3"		---
*DA-3020-SS	3" x 2"	639002	---
*DA-3040-SS	3" x 4"		---
*DA-4030-SS	4" x 3"	639003	---

PART D STAINLESS 90° ELBOW

PART#	SIZE	LIST PRICE
*CGD-2090-SS	2"	---

BRASS

MALE ADAPTER X FEMALE NPT TYPE A

4491X

PART#	SIZE	LIST PRICE
CGA-050-B1	1/2"	---
*CGA-075-B1	3/4"	---
*CGA-100-B1	1"	---
CGA-125-B1	1-1/4"	---
CGA-150-B1	1-1/2"	---
*CGA-200-B1	2"	---
CGA-250-B1	2-1/2"	---
*CGA-300-B1	3"	---
*CGA-400-B1	4"	---
CGA-500-B1	5″	---
*CGA-600-B1	6″	---

FEMALE COUPLER X HOSE SHANK TYPE C

4493X

PART#	SIZE	LIST PRICE
CGC-050-B1	1/2"	---
*CGC-075-B1	3/4"	---
*CGC-100-B1	1"	---
CGC-125-B1	1-1/4"	---
CGC-150-B1	1-1/2"	---
*CGC-200-B1	2"	---
CGC-250-B1	2-1/2"	---
*CGC-300-B1	3"	---
*CGC-400-B1	4"	---
CGC-500-B1	5″	---

FEMALE COUPLER X MALE NPT TYPE B

4492X

PART#	SIZE	LIST PRICE
CGB-050-B1	1/2"	---
*CGB-075-B1	3/4"	---
*CGB-100-B1	1"	---
CGB-125-B1	1-1/4"	---
*CGB-150-B1	1-1/2"	---
*CGB-200-B1	2"	---
CGB-250-B1	2-1/2"	---
*CGB-300-B1	3"	---
*CGB-400-B1	4"	---
CGB-500-B1	5″	---
CGB-600-B1	6″	---

FEMALE COUPLER X FEMALE NPT TYPE D

4494X

PART#	SIZE	LIST PRICE
CGD-050-B1	1/2"	---
*CGD-075-B1	3/4"	---
*CGD-100-B1	1"	---
*CGD-125-B1	1-1/4"	---
CGD-150-B1	1-1/2"	---
*CGD-200-B1	2"	---
CGD-250-B1	2-1/2"	---
*CGD-300-B1	3"	---
*CGD-400-B1	4"	---
CGD-500-B1	5″	---

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BRASS CAM AND GROOVE
HOSE ACCESSORIES

MALE ADAPTER X HOSE SHANK
TYPE E

4495X

PART#	SIZE	LIST PRICE
CGE-050-B1	1/2"	---
*CGE-075-B1	3/4"	---
*CGE-100-B1	1"	---
*CGE-125-B1	1-1/4"	---
*CGE-150-B1	1-1/2"	---
*CGE-200-B1	2"	---
CGE-250-B1	2-1/2"	---
*CGE-300-B1	3"	---
*CGE-400-B1	4"	---
CGE-500-B1	5″	---
*CGE-600-B1	6″	---

DUST CAP
TYPE DC

4497X

PART#	SIZE	LIST PRICE
CDC-050-B1	1/2"	---
*CDC-075-B1	3/4"	---
*CDC-100-B1	1"	---
CDC-125-B1	1-1/4"	---
CDC-150-B1	1-1/2"	---
*CDC-200-B1	2"	---
CDC-250-B1	2-1/2"	---
*CDC-300-B1	3"	---
*CDC-400-B1	4"	---
CDC-500-B1	5″	---
CDC-600-B1	6″	---

MALE ADAPTER X MALE NPT
TYPE F

4496X

PART#	SIZE	LIST PRICE
CGF-050-B1	1/2"	---
*CGF-075-B1	3/4"	---
*CGF-100-B1	1"	---
*CGF-125-B1	1-1/4"	---
*CGF-150-B1	1-1/2"	---
*CGF-200-B1	2"	---
CGF-250-B1	2-1/2"	---
*CGF-300-B1	3"	---
*CGF-400-B1	4"	---
CGF-500-B1	5″	---
CGF-600-B1	6″	---

DUST PLUG
TYPE DP

4498X

PART#	SIZE	LIST PRICE
CDP-050-B1	1/2"	---
*CDP-075-B1	3/4"	---
*CDP-100-B1	1"	---
CDP-125-B1	1-1/4"	---
CDP-150-B1	1-1/2"	---
*CDP-200-B1	2"	---
CDP-250-B1	2-1/2"	---
*CDP-300-B1	3"	---
*CDP-400-B1	4"	---
CDP-500-B1	5″	---
CDP-600-B1	6″	---

CRIMPLOK

SELF LOCKING
CAM & GROOVE

STAINLESS STEEL &
ALUMINUM

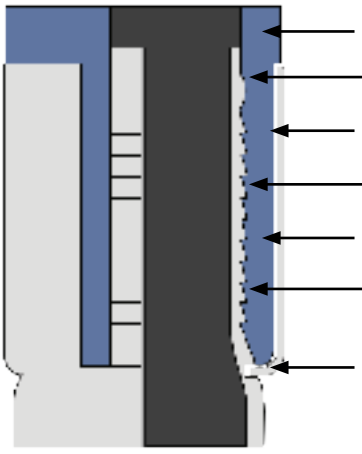
UNIVERSAL FITTINGS

CRIMPLOCK KING NIPPLES

CRIMPLOK FERRULES - PLATED STEEL - STAINLESS STEEL ALUMINUM

SOLID DEPENDABLE SAFE

FEATURES AND BENEFITS



The ferrule is crimped into this groove for hose retention

Crimplok is the best way to ensure a perfect hose connection every time!

- All fittings have a Crimplok groove for the ferrule end the Lok into for a strong permanent seal.
- Serrations on the couplings and fittings are not as sharp at the top, but become sharper towards the Crimplok groove.
- The length of the barb and sleeve/ ferrule are matched for a safer, cleaner connection.
- Crimplok connections do not have sharp clamp buckles or edges
- Interchangeable with most market systems

ALUMINUM SELF LOCKING CAM & GROOVE

- Automatic Self-Locking Arms Prevent Accidental Disconnection
- Machined multi-serrated shank with interlocking groove
- Aluminum with Brass Self Locking Arms
- 316 Stainless with Investment Cast Self-Locking Arms
- Available in sizes 2" through 6"
- 2" @250 psi 3" & 4" @150 psi 6" @75 psi
- 6" @150 psi 4 arms
- Configurations
  - Dust Cap
  - Part B
  - Part C
  - Part D

Sample item code	Description
CDCSL-XXX-A1	X" DUST CAP ALUMINUM CRIMPLOK SELF LOCKING
CGBSL-XXX-A1	X" PART B ALUMINUM CRIMPLOK SELF LOCKING
CGCSL-XXXCR-A1	X" PART C ALUMINUM CRIMPLOK SELF LOCKING
CGDSL-XXX-A1	X" PART D ALUMINUM PRIMPLOK SELF LOCKING

Designed for use with Buchanan Crimp Sleeves and Interlocking Ferrules

FEMALE COUPLER X MALE NPT TYPE B

CGBSL

PART#	SIZE	LIST PRICE
CGBSL-200-A1	2"	---
CGBSL-300-A1	3"	---
CGBSL-400-A1	4"	---
CGBSL-600-A1	6″	---

FEMALE COUPLER X FEMALE NPT TYPE D

CGDSL

PART#	SIZE	LIST PRICE
CGDSL-200-A1	2"	---
CGDSL-300-A1	3"	---
CGDSL-400-A1	4"	---
CGDSL-600-A1	6″	---

FEMALE COUPLER X HOSE SHANK TYPE C

CGCSL

PART#	SIZE	LIST PRICE
CGCSL-200CR-A1	2"	---
CGCSL-300CR-A1	3"	---
CGCSL-400CR-A1	4"	---
CGCSL-600CR-A1	6"	---
CGCSL-600CR-A4	6" w/4 arms	

DUST CAP TYPE DC

CDCSL

PART#	SIZE	LIST PRICE
CDCSL-200-A1	2"	---
CDCSL-300-A1	3"	---
CDCSL-400-A1	4"	---
CDCSL-600-A1	6″	---

STAINLESS STEEL SELF LOCKING CAM & GROOVE

- Automatic Self-Locking Arms Prevent Accidental Disconnection
- Machined multi-serrated shank with interlocking groove
- Aluminum with Brass Self Locking Arms
- 316 Stainless with Investment Cast Self-Locking Arms
- Available in sizes 2" through 6"
- 2" @250 psi 3" & 4" @150 psi 6" @75 psi
- 6" @150 psi 4 arms
- Configurations
  - Dust Cap
  - Part B
  - Part C
  - Part D

Sample item code	Description
CDCL-XXX-SS1	X" DUST CAP STAINLESS CRIMPLOK 316 SELF LOCKING
CGBSL-XXX-SS1	X" PART B STAINLESS CRIMPLOK 316 SELF LOCKING
CGCSL-XXXCR-SS1	X" PART C STAINLESS 316 CRIMPLOK SELF LOCKING
CGDSL-XXX-SS1	X" PART D STAINLESS CRIMPLOK 316 SELF LOCKING

Designed for use with Buchanan Crimp Sleeves and Interlocking Ferrules

FEMALE COUPLER X MALE NPT TYPE B

CGBSL

PART#	SIZE	LIST PRICE
CGBSL-200-SS1	2"	---
CGBSL-300-SS1	3"	---
CGBSL-400-SS1	4"	---

FEMALE COUPLER X HOSE SHANK TYPE C

CGCSL

PART#	SIZE	LIST PRICE
CGCSL-200CR-SS1	2"	---
CGCSL-300CR-SS1	3"	---
CGCSL-400CR-SS1	4"	---
CGCSL-600CR-SS1	6"	---

FEMALE COUPLER X FEMALE NPT TYPE D

CGDSL

PART#	SIZE	LIST PRICE
CGDSL-200-SS1	2"	---
CGDSL-300-SS1	3"	---
CGDSL-400-SS1	4"	---
CGDSL-600-SS1	5″	---

DUST CAP TYPE DC

CDCSL

PART#	SIZE	LIST PRICE
CDCSL-200-SS1	2"	---
CDCSL-300-SS1	3"	---
CDCSL-400-SS1	4"	---
CDCSL-600-SS1	5″	---

CRIMPLOK
HOSE ACCESSORIES

CRIMPLOK ALUMINUM CAM & GROOVE COUPLINGS

TYPE C

PART#	SIZE	LIST PRICE
CGC-150CR-A1	1-1/2"	---
CGC-200CR-A1	2"	---
CGC-250CR-A1	2-1/2"	---
CGC-300CR-A1	3"	---
CGC-400CR-A1	4"	---
CGC-600CR-A1	6"	---
CGC-800CS-A1	8"	---

TYPE E

PART#	SIZE	LIST PRICE
CGE-150CR-A1	1-1/2"	---
CGE-200CR-A1	2"	---
CGE-250CR-A1	2-1/2"	---
CGE-300CR-A1	3"	---
CGE-400CR-A1	4"	---
CGE-600CR-A1	6"	---
CGE-800CS-A1	8"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK STAINLESS CAM & GROOVE COUPLINGS

TYPE C

PART#	SIZE	LIST PRICE
CGC-100CR-SS1	1"	---
CGC-150CR-SS1	1-1/2"	---
CGC-200CR-SS1	2"	---
CGC-300CR-SS1	3"	---
CGC-400CR-SS1	4"	---

TYPE E

PART#	SIZE	LIST PRICE
CGE-100CR-SS1	1"	---
CGE-150CR-SS1	1-1/2"	---
CGE-200CR-SS1	2"	---
CGE-300CR-SS1	3"	---
CGE-400CR-SS1	4"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

QUICKLOK HANDLE FOR ALUMINUM, BRASS & SS

PART#	SIZE	
HSK2-200-SS	1-1/2"	---
HSK2-300-SS	3"	---

QUICKLOK HANDLE FOR SS AND ALUMINUM

PART#	SIZE	
HSK5-200-SS	1-1/2-2"	---
HSK5-300-SS	3-4"	---

INVESTMENT CAST STAINLESS STEEL HANDLE, RING & PIN

PART#	SIZE	
61447	3/4"	---
61448	1"	---
61449	1-1/4" - 2-1/2"	---
61452	3" & 4"	---
61454	6"	---

FORGED BRASS HANDLE - RING & PIN STEEL

PART#	SIZE	
61455	3/4"	---
61450	1"	---
61451	1-1/4" - 2-1/2"	---
61453	3" & 4"	---
61457	6"	HF-600-BCC

SAFETY CLIP

PART #	SIZE	
66015	1-1/4" - 2-1/2"	---

HANDLE + PIN + RING BRASS

GASKETS
HOSE ACCESSORIES

CAMLOCK GASKET EPDM

PART#	SIZE	
CG-050-EPDM	1/2″	---
CG-200-EPDM	2″	---
CG-300-EPDM	3″	---

CAMLOCK GASKET NBR

PART#	SIZE	
CG-075-NBR	3/4	---
CG-100-NBR	1	---
CG-125-NBR	1-1/4	---
CG-150-NBR	1-1/2	---
CG-200-NBR	2	---
CG-250-NBR	2-1/2	---
CG-300-NBR	3	---
CG-400-NBR	4	---
CG-500-NBR	5	---
CG-600-NBR	6	---
CG-800-NBR	8	---

CAMLOCK GASKET VITON

PART#	SIZE	
CG-050-VI	1/2	---
CG-075-VI	3/4	---
CG-100-VI	1	---
CG-125-VI	1-1/4	---
CG-150-VI	1-1/2	---
CG-200-VI	2	---
CG-250-VI	2-1/2	---
CG-300-VI	3	---
CG-400-VI	4	---

BUNA-N GASKET

PART#	SIZE	
BG50	1/2″	---
BG75	3/4″	---
BG100	1″	---
BG125	1-1/4″	---
BG150	1-1/2″	---
BG200	2″	---
BG250	2-1/2″	---
BG300	3″	---
BG400	4″	---
BG500	5″	---
BG600	6″	---
BG800	8″	---

SILICONE GASKET

PART#	SIZE	
SG300	3"	---
SG400	4"	---

VITON GASKET

PART#	SIZE	LIST PRICE
VG100	1"	---
VG150	1-1/2"	---
VG200	2"	---
VG250	2-1/2"	---
VG300	3"	---

COMBINATION NIPPLES

HOSE BARB X MALE PIPE

STEEL HOSE NIPPLES

CNT-XXX-S ▪ BLACK

(BARB X MALE PIPE)

PART #	HOSE SIZE	LIST PRICE
*973850	1/2"	---
*973851	3/4"	---
*973852	1"	---
*973853	1-1/4"	---
*973854	1-1/2"	---
*973855	2"	---
*973856	2-1/2"	---
*973857	3"	---
*973858	4"	---
*CNT-600-S	6"	---
*973861	8"	---
*CNT-1200-S	12"	---

COMBINATION NIPPLE 316 STAINLESS

CNT-XXX-S316

PART #	SIZE	LIST PRICE
973697	1/4" 1/4"	---
973698	3/8" x 3/8"	---
973699	1/2" x 3/8"	---
*973700	1/2"	---
*973701	3/4"	---
*973702	1"	---
973703	1-1/4"	---
*973704	1-1/2"	---
*973705	2"	---
973706	2-1/2"	---
973707	3"	---
973708	4"	---

ZINC PLATED STEEL

CNT-XXX-SP

PART #	SIZE	LIST PRICE
*973870	1/2"	---
*973871	3/4"	---
*973872	1"	---
*973873	1-1/4"	---
*973874	1-1/2"	---
*973875	2"	---
*973876	2-1/2"	---
*973877	3"	---
*973878	4"	---
*973879	5"	---
*973880	6"	---
*973881	8"	---
CNT-1200-SP	12"	---

ZINC PLATED STEEL EXPANDER & REDUCER

EXP
RED

HOSE X MIP

PART #	SIZE	LIST PRICE
*973862	3/4 x 1	---
*973884	1 x 3/4	---
973863	1 x 1-1/4	---
*973885	1-1/4 x 1	---
*973886	1-1/4 x 1-1/2	---
*973887	1-1/2 x 1-1/4	---
*973864	1-1/2 x 2	---
*973888	2 x 1-1/2	---
*973859	2 x 2-1/2	---
*973869	2-1/2 x 2	---
*973865	2-1/2 x 3	---
*973867	3 x 2-1/2	---
*973866	3 x 4	---
*973868	4 x 3	---

COMBINATION NIPPLES
HOSE BARB X MALE PIPE

BRASS

CNT-XXX-B

▪ LEAD FREE

PART #	SIZE	LIST PRICE
973600	1/2"	---
973601	3/4"	---
973602	1"	---
973603	1-1/4"	---
973604	1-1/2"	---
973605	2"	---
973606	2-1/2"	---
973607	3"	---
CNT-400-B	4"	---

ALUMINUM

CNT-XXX-A

PART #	SIZE	LIST PRICE
973620	1/2"	---
973621	3/4"	---
973622	1"	---
973623	1-1/4"	---
973624	1-1/2"	---
*973625	2"	---
*973626	2-1/2"	---
*973627	3"	---
*973628	4"	---

victaulic grooved
combination nipples

COMBINATION NIPPLE PLAIN STEEL VICTAULIC GROOVED

CNG-S

PART #	HOSE SIZE	LIST PRICE
*CNG-200-S	2"	---
*CNG-300-S	3"	---
*CNG-400-S	4"	---
*CNG-600-S	6"	---

COMBINATION NIPPLE PLATED VICTAULIC GROOVED

PART#	SIZE	LIST PRICE
CNG-150-SP	1-1/2"	---
*CNG-200-SP	2"	---
CNG-250-SP	2-1/2"	---
CNG-300-SP	3"	---
*CNG-400-SP	4"	---
CNG-500-SP	5"	---
*CNG-600-SP	6"	---

CRIMPLOK CRIMP UNIVERSAL FITTINGS

PART#	SIZE	MAX OPERATING PSI 70F	LIST PRICE
FHE-075-MP	3/4	150	----
HE-050CF-SP	1/2	150	---
HE-075CF-SP	3/4	150	---
HE-075CR-SP	3/4	150	---
HE-100CF-SP	1	150	---
HE-100CR-SP	1	150	---

HIGH PRESSURE FEMALE STEM

PART#	SIZE	LIST PRICE
GJS-050CR-SP	1/2	---
GJS-075CR-SP	3/4	---
GJS-100CR-SP	1	---
GJS-125CR-DP	1-1/4	----
GJS-150CR-DP	1-1/2	----
GJS-200CR-DP	2	----
GJS-250CR-DP	2-1/2	----
GJS-300CR-DP	3	----

HIGH PRESSURE MALE STEM

PART#	SIZE	LIST PRICE
GJM-050CR-SP	1/2	---
GJM-075CR-SP	3/4	---
GJM-100CR-SP	1	---
GJM-125CR-DP	1-1/4	----
GJM-150CR-DP	1-1/2	----
GJM-200CR-DP	2	----
GJM-250CR-DP	2-1/2	----
GJM-300CR-DP	3	----

CRIMPLOK KING NIPPLES

HOSE ACCESSORIES

CRIMPLOK CRIMP COMBINATION NIPPLES PLATED STEEL

PART#	SIZE	LIST PRICE
*CNT-100CR-SP	1"	---
*CNT-125CR-SP	1-1/4"	---
*CNT-150CR-SP	1-1/2"	---
*CNT-200CR-SP	2"	---
*CNT-250CR-SP	2-1/2"	---
*CNT-300CR-SP	3"	---
*CNT-400CR-SP	4"	---
*CNT-600CR-SP	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK CRIMP COMBINATION NIPPLES STAINLESS

PART#	SIZE	LIST PRICE
*CNT-100CR-SS316	1"	---
CNT-125CR-SS316	1-1/4"	---
*CNT-150CR-SS316	1-1/2"	---
*CNT-200CR-SS316	2"	---
*CNT-250CR-SS316	2-1/2"	---
*CNT-300CR-SS316	3"	---
*CNT-400CR-SS316	4"	---
*CNT-600CR-SS316	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK COMBINATION NIPPLE PLATED LONG NPT

PART#	SIZE	LIST PRICE
*CNL-200CR-SP	2"	---
*CNL-250CR-SP	2-1/2"	---
*CNL-300CR-SP	3"	---
*CNL-400CR-SP	4"	---

Project Information: For use with CRIMPLOK Long Ferrules CF-XXXXXL-SP

CRIMPLOK HD COMBINATION NIPPLE PLATED

PART#	SIZE	LIST PRICE
*CNT-400CS-SP	4"	---
*CNT-600CS-SP	6"	---
*CNT-800CS-SP	8"	---

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK HD COMBINATION NIPPLE UNPLATED

PART#	SIZE	LIST PRICE
*CNT-400CS-S	4"	---
*CNT-600CS-S	6"	---
CNT-800CS-S	8"	---

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK HD COMBINATION NIPPLE VICTAULIC PLATED

PART#	SIZE	LIST PRICE
*CNG-400CS-SP	4"	---
*CNG-600CS-SP	6"	---
*CNG-800CS-SP	8"	---

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK HD COMBINATION NIPPLE VICTAULIC UNPLATED

PART#	SIZE	LIST PRICE
*CNG-400CS-S	4"	---
*CNG-600CS-S	6"	---
*CNG-800CS-S	8"	---

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES PLATED STEEL

PART#	SIZE	LIST PRICE
*CNG-200CR-SP	2"	---
*CNG-300CR-SP	3"	---
*CNG-400CR-SP	4"	---
*CNG-600CR-SP	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES STAINLESS

PART#	SIZE	LIST PRICE
CNG-200CR-SS316	2"	---
CNG-250CR-SS316	2-1/2"	---
CNG-300CR-SS316	3"	---
CNG-400CR-SS316	4"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK FIXED FLANGE NIPPLE STEEL 125 - 150#

PART#	SIZE	LIST PRICE
*CNFL-200CR-S	2"	---
*CNFL-300CR-S	3"	---
*CNFL-400CR-S	4"	---
*CNFL-600CR-S	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP
Stainless Steel available - add S316 to part #

CRIMPLOK CRIMP TURNBACK COMBINATION NIPPLES STEEL

PART#	SIZE	LIST PRICE
*CNTB-200CR-S	2"	---
*CNTB-300CR-S	3"	---
*CNTB-400CR-S	4"	---
*CNTB-600CR-S	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK CRIMP TURN BACK NIPPLES STAINLESS

PART#	SIZE	LIST PRICE
*CNTB-200CR-SS316	2"	---
*CNTB-300CR-SS316	3"	---
*CNTB-400CR-SS316	4"	---
*CNTB-600CR-SS316	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK CRIMP SQUARE CUT COMBINATION NIPPLES UNPLATED

PART#	SIZE	LIST PRICE
*CNSC-300CR-SP	3"	---
*CNSC-400CR-SP	4"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK FIXED FLANGE NIPPLE STAINLESS STEEL 125 - 150#

PART#	SIZE	LIST PRICE
*CNFL-200CR-SS316	2"	---
*CNFL-300CR-SS316	3"	---
*CNFL-400CR-SS316	4"	---
*CNFL-600CR-SS316	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

hose menders

MENDER PLAIN STEEL

HM-S

PART #	HOSE SIZE	LIST PRICE
973890	1/2"	---
HM-063-S	5/8"	---
973891	3/4"	---
973892	1"	---
973893	1-1/4"	---
973894	1-1/2"	---
973895	2"	---
HM-300-S	3"	---
HM-400-S	4"	---
HM-600-S	6"	---
HM-800-S	5"	---

MENDER PLATED STEEL

PART #	SIZE	LIST PRICE
973650	3/8"	---
973651	1/2"	---
HM-063-SP	5/8"	---
973652	3/4"	---
973653	1"	---
973654	1-1/4"	---
973655	1-1/2"	---
973656	2"	---
973657	2-1/2"	---
973658	3"	---
973659	4"	---
HM-600-SP	6"	---
HM-800-SP	8"	---

316 STAINLESS STEEL HOSE MENDER

PART #	SIZE	LIST PRICE
73669	1/2"	---
73670	3/4"	---
73671	1"	---
73672	1-1/4"	---
73673	1-1/2"	---
73674	2"	---
73675	2-1/2"	----
73676	3"	----
73677	4"	----

BRASS HOSE MENDER

▪ LEAD FREE

PART #	SIZE	LIST PRICE
73983	3/4"	---
73984	1"	---
73985	1-1/4"	---
73986	1-1/2"	---
73987	2"	---

UNIVERSAL COUPLING

MALE NPT ENDS

- Twist claw/ universal/ chicago

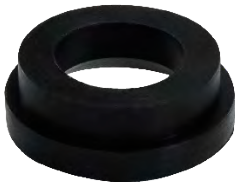
- Malleable iron
- ISO PSI

ME-XXX-SP

* Safety clip included

PART #	SIZE	LIST PRICE
ME-025-SP	1/4	---
66005	3/8"	---
66006	1/2"	---
66007	3/4"	---
66008	1"	---

WASHER



PART #	LIST PRICE
66000	---

FEMALE NPT ENDS

* Safety clip included

PART #	SIZE	LIST PRICE
FE-025-SP	1/4"	---
66009	3/8"	---
66010	1/2"	---
66011	3/4"	---
66012	1"	---
FE-125-SP	1-1/4"	---
FE-150-SP	1-1/2"	---
FE-200-SP	2"	---

HOSE END

SEE CRIMPLOK SECTION

HE-XXX-SP

* Safety clip included

PART #	SIZE	LIST PRICE
66001	3/8"	---
66002	1/2"	---
66003	3/4"	---
66004	1"	---
HE-125-SP	1-1/4"	---
HE-150-SP	1-1/2"	---
HE-200-SP	2"	---

TRIPLE CONNECTIONS

UW-300-SP

PART #	LIST PRICE
66013	---

UNIVERSAL BLANK END

ISO PSI

PART #	SIZE	LIST PRICE
BE-300-SP		---

GROUND JOINT COUPLING

HIGH PRESSURE FEMALE+ WING NUT+FEMALE SPUD

PART #	SIZE	LIST PRICE
73003	1/2	---
73004	3/4	---
73005	1	---
73006	1-1/4	---
73007	1-1/2	---
73008	2	---
73009	2-1/2	---
73010	3	---
73011	4	---

HIGH PRESSURE WING NUT

PART #	SIZE	PART #	LIST PRICE
73033	1/2	*GJN-050-DP	---
73035	3/4	*GJN-075-DP	---
73036	1-1/4	*GJN-125-DP	---
73037	1-1/2	*GJN-150-DP	---
73038	2	*GJN-200-DP	---
73039	2-1/2		---
73040	3	*GJN-300-DP	---

HIGH PRESSURE FEMALE STEM

PART #	SIZE	PART #	LIST PRICE
73023	1/2	*GJS-050-SP	---
73024	3/4	*GJS-075-DP	---
73025	1	*GJS-100-DP	---
73026	1-1/4	*GJS-125-DP	---
73027	1-1/2	*GJS-150-DP	---
73028	2	*GJS-200-DP	---
73029	2-1/2"		---
73030	3"		---
73031	4"		---

HIGH PRESSURE FEMALE SPUD

PART #	SIZE	PART #	LIST PRICE
73063	1/2	*GJF-050-SP	---
73064	3/4	*GJF-075-DP	---
73065	1	*GJF-100-DP	---
73066	1-1/4	*GJF-125-DP	---
73067	1-1/2	*GJF-150-DP	---
73068	2	*GJF-200-DP	---
73070	3	*GJF-300-DP	---

HIGH PRESSURE DOUBLE SPUD

PART #	SIZE	LIST PRICE
GDS-050-B	1/2	---
*GDS-075-B	3/4	---

GROUND JOINT COUPLINGS/ ALUMINUM SHORT SHANKS

HOSE ACCESSORIES

2 BOLT HIGH PRESSURE CLAMP

PART #	HOSE ID	CLAMP RANGE	MAX BOLT TORQUE	LIST PRICE
*BC2-075A-DP	3/4"	1-5/32"-1-9/32"	21FT LBS	---
*BC2-075C-DP	3/4"	1-5/16"-1-1/2"	21FT LBS	---

4 BOLT HIGH PRESSURE CLAMP

PART #	HOSE ID	CLAMP RANGE	MAX BOLT TORQUE	LIST PRICE
BC4-100B-DP	1"	1.53-1.72	21FT LBS	---
BC4-125-DP	1-1/4"	2.06-2.25	40FT LBS	---
BC4-200A-DP	2"	2-11/32"-2-17/32"	60FT LBS	---
BC4-200-DP	2-1/2"	3-3/32"-3-7/16"	60FT LBS	---

HIGH PRESSURE MALE STEM

PART #	LIST	SIZE	PART #	LIST PRICE
73043		1/2	*GJM-050-SP	---
73044		3/4	*GJM-075-SP	---
73045		1	*GJM-100-SP	---
73046		1-1/4	*GJM-125-DP	---
73047		1-1/2	*GJM-150-DP	---
73048		2	*GJM-200-DP	---
73049		2-1/2		---
73050		3		---
73051		4		---

NPT STEEL HEX NIPPLE

PART #	SIZE	LIST PRICE
HNC-04-02-SP	1/4 x 1/8	---
HNC-04-04-SP	1/4 x 1/4	---
HNC-06-04-SP	3/8 x 1/4	---
HNC-06-06-SP	3/8 x 3/8	---
HNC-08-06-SP	1/2 x 3/8	---
HNC-08-08-SP	1/2 x 1/2	---
HNC-12-08-SP	3/4 x 1/2	---
HNC-16-12-SP	1 x 3/4	---

SHORT SHANK ALUMINUM SET NPS

PART #	SIZE	LIST PRICE
PL-150-AD	1-1/2	---
*PL-200-AD	2	---
*PL-300-AD	3	---
*PL-400-AD	4	---

FEMALE END

PART #	SIZE	LIST PRICE
PF-150-AD	1-1/2	---
PF-200-AD	2	---
PF-300-AD	3	---
PF-400-AD	4	---
PF-600-AD	6	---

MALE END

PART #	SIZE	LIST PRICE
PM-150-A	1-1/2	---
PM-200-A	2	---
PM-300-A	3	---

STRAINERS/ NOZZLES
HOSE ACCESSORIES

LARGE SAFETYCHECK FOR HOSE/ HOSE AND HOSE/TOOL

HOSE TO HOSE

PART #	SIZE	LIST PRICE
WHIP-L	1-1/2" HOSE, 37" LONG	---
WHIP-S	1/2-1-1/4" HOSE 22" LONG	---

FOOT VALVE

PART #	SIZE	LIST PRICE
*FV-200-DP	2	---
*FV-300-DP	3	---
*FV-400-DP	4	---
*FV-600-DP	6	---

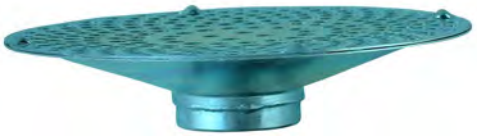
STRAINER ROUND HOLE

PART #	SIZE	LIST PRICE
*SR-200-SP	2	---
*SR-250-SP	2-1/2	---
*SR-300-SP	3	---
*SR-400-SP	4	---
*SR-600-SP	6	---
*SR-800-SP	8	---

STRAINER ROUND HOLE LONG THIN

PART #	SIZE	LIST PRICE
*SL-200-SP	2	---
*SL-300-SP	3	---

STRAINER BOTTOM HOLE



PART #	SIZE	STRAINER HOSE SIZE	LIST PRICE
SB-200-SP	2		---
SB-300-SP	3		---

STRAINER STRAINER BOTTOM HOLE

PART #	SIZE	LIST PRICE
SCR-300-SS304	3	---
SCR-400-SS304	4	---

PLASTIC FOG NOZZLE GHT

PART #	SIZE	LIST PRICE
FN-075	3/4	---
FN-075R	3/4	----

PLASTIC FOG NOZZLE NPS

PART #	SIZE	LIST PRICE
FN-100	1	---
*FN-150	1-1/2	---
FN-200	2	---

GREEN ABS FOG NOZZLE GHT

PART #	SIZE	LIST PRICE
FN-075G	3/4	---

FIRE HOSE FITTINGS

HYDRANT ADAPTERS - BRASS

PART #	DESCRIPTION	LIST PRICE
444011	1-1/2" NST x 3/4" GHT	---
444000	2-1/2" NST x 3/4" GHT	---
444001	2-1/2" NST x 3/4" NPT	---
444002	2-1/2" NST x 1" NPT	---
444005	2-1/2" NST x 1-1/2" NPT	---
444007	2-1/2" NST x 2" NPSH	---
444008	2-1/2" NST x 2" NPT	---
444006	2-1/2" NST x 1-1/2" NST	---

FEMALE TO MALE HEX ADAPTER - BRASS

PART #	FEMALE X MALE	LIST PRICE
444021	1-1/2" NST x 1-1/2" NPSH	---
444023	1-1/2" NPT x 1-1/2" NPSH	---
444020	1-1/2" NST x 1-1/2" NPT	---
444318	2 NPT x 2-1/2" NST	---

CAP - BRASS

PART #	DESCRIPTION	LIST PRICE
444062	2-1/2" NST	---
444313	4-1/2" NST	---
444320	2-1/2" NST PLUG	---
444060	1-1/2" NST	---

DOUBLE MALE HEX NIPPLE - BRASS

PART #	DESCRIPTION	LIST PRICE
444042	1-1/2" NPT x 1-1/2" NPSH	---
444040	1-1/2" NPT x 1-1/2" NST	---
444048	2" NPT x 2-1/2" NST	---
444095	2-1/2" NST x 1-1/2" NST	---
444045	2-1/2" NPT x 2-1/2" NST	---
444049	3" NPT x 2-1/2" NST	---

MALE SWIVEL ADAPTER - BRASS W/ LUGS

PART #	DESCRIPTION FEMALE X MALE	LIST PRICE
444111	2-1/2" NST x 2" NPT	---
444112	2-1/2" NST x 2-1/2" NPT	---
444113	2-1/2" NST x 3" NPT	---

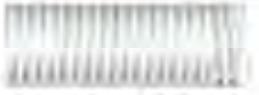
BRASS NOZZLE

PART #	PIPE	LIST PRICE
HN-075-B	3/4"	---
*HN-100-B	1"	---
HN-125-B	1-1/4"	---
HN-150-B	1-1/2"	---
HN-200-B	2"	---

BUCHANAN HOSE

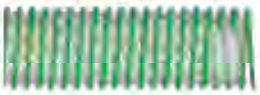
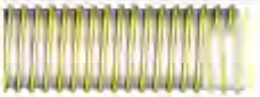
PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Air Hoses - Also Available: Montana, Hi-Temp Steelflex Air, Oroflex Air, Oroflex 20, Duraflex 20 & Hot Air Blower					
Super Service Air	Yellow cut and abrasion resistant cover with blue stripe. Tube is oil resistant synthetic rubber.	A superior quality drilling, construction and industrial hose.	400 PSI	1/2" - 4"	-35°C to +65°C -30°F to +150°F
Contractors Air	Yellow cut and abrasion resistant rubber cover with oil mist resistant synthetic rubber tube.	For mining, construction, and industrial use.	250 - 300 PSI	1/2" - 4"	-35°C to +60°C -30°F to +140°F
SteelFlex Air	Yellow cut and abrasion resistant cover with red stripe. Tube is oil resistant synthetic rubber.	High pressure steel reinforced air service for drilling, construction and industrial use. Wire resistant to external abuse that holds air force. Industrial hose.	400 – 1000 PSI	1/2" - 4"	-35°C to +65°C -30°F to +150°F
Jackhammer	Smooth Yellow cut and abrasion resistant rubber cover with oil mist resistant synthetic rubber tube.	An economical air hose for jackhammer and other uses on construction sites. Also for general industrial use.	300 PSI	3/4"	-35°C to +60°C -30°F to +140°F
General Purpose - Also Available: General Purpose, Urethane General Purpose & Self Storing Air					
Premium General Purpose - Non Conductive	Red, oil, grease, weather and abrasion resistant nitrile/pvc cover with white tube.	A premium quality long length hose for petroleum based fluids, lubricating oils, air, hot water and some chemical solutions.	250 – 300 PSI	1/4" – 1 1/2"	-32°C to +65°C -25°F to +150°F
EPDM General Purpose	Smooth red abrasion and weather resistant EPDM synthetic rubber tube and cover.	Air, water, agricultural spray solutions, and other dilute chemicals. Excellent resistance to heat and weathering. Also resists animal fats, vegetable oils and Methyl Ethyl Ketone.	150 - 250 PSI	1/4" - 2"	-30°C to +93°C -20°F to +200°F
Clear Reinforced PVC	Clear smooth PVC.	An economical FDA quality hose for handling air, water, oil, mild chemicals, and oilfield. Clear wall allows visual inspection of product. SAE/USCG/MSF-81 Compliant.	65 – 250 PSI	5/16" - 2"	-5°C to +65°C +25°F to +150°F
Peak Oil	Black, Grey, Red, Blue, or Yellow oil, weather and abrasion resistant nitrile/pvc cover with nitrile tube.	Transmission of most petroleum-based hydraulic fluids, mineral oil, diesel fuel, engine coolant solutions, agricultural sprays and a wide range of chemical solutions.	250 - 300 PSI	1/4" - 3/4"	-32°C to +60°C -25°F to +140°F
Arctic Diamond Purpose	Blue weather and oil resistant synthetic rubber specially compounded for arctic service featuring a white wire.	A premium general purpose hose for conveying air, water, petroleum products and some chemicals under cold conditions.	300 PSI	1/2" - 2"	-54°C to +82°C -65°F to +150°F
Water Discharge - Also Available: H.D Water Discharge, Garden Hose, High Pressure Water Discharge, Papermill, Packers Washdown, White Sanitary & Single Jacket Industrial Mill					
Oroflex 10 Layflat	Black abrasion, weather and oil resistant nitrile rubber cover with oil resistant white rubber tube.	A lightweight high pressure, extremely strong hose for general water and oil discharge, and for some chemicals.	150 – 200 PSI	1 1/2" - 6"	-20°C to +65°C 0°F to +180°F
Oroflex - Rubber Layflat	Black abrasion, weather and oil resistant nitrile rubber.	This is a lightweight high pressure, extremely strong hose for general water discharge service. Ideal for rental service where long life and competitive pricing is paramount. Its compact characteristics make this an ideal hose for use with portable pumps. Especially suited for pumping oily contaminated water.	150 - 200 PSI	2" - 6"	-20°C to +60°C 0°F to +180°F
Pressure Washer	Smooth cover blue and black (also wrapped version) oil resistant synthetic rubber cover. One high tensile steel braid with oil resistant synthetic rubber tube.	Extremely flexible, compact hose for use on pressure washers with working pressures up to 3000 psi. Available in 4500 psi, 250°F.	3000 PSI	3/8"	-29°C to +100°C -20°F to +212°F

HOSE INFORMATION
HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Water Discharge - *Also Available: H.D Water Discharge, Garden Hose, High Pressure Water Discharge, Paper mill, Packers Washdown & White Sanitary*					
PVC Layflat	Blue, Brown or Green PVC impregnation.	Light (Blue) to Heavy (Brown and Green) duty layflat hose for portable pump and irrigation use.	30 - 150 PSI	3/4" - 12"	-10°C to +60°C +15°F to +140°F
Contractors and Contractors Plus Water Discharge	Black abrasion and weather resistant synthetic rubber cover with synthetic rubber tube.	A lightweight water discharge hose which is ideal for use with portable pumps, and general water discharge service.	75 - 100 PSI	1 1/4" - 12"	-32°C to +60°C -30°F to +140°F
Contractors Water Discharge - Industrial Garden Hose	Black abrasion and weather resistant synthetic rubber cover with synthetic rubber tube.	For use on construction sites and general water service.	150 – 300PSI	1/2" - 1"	-32°C to +60°C -30°F to +140°F
Water Suction - *Also Available: EPDM Aggie Water S & D*					
Superflex	A hose constructed with extra soft PVC, a helix that ensures greater flexibility and ease of handling at very low temperatures. Also available with static wire.	Can be used for light oil, grease and animal fat suction. It can also be used in other general applications where good flexibility is required at very low temperatures.	35 – 70 PSI 29" HG	2" – 6"	-40°C to +60°C -40°F to +140°F
Rubber Water S & D	Black smooth abrasion and weather resistant synthetic rubber.	A heavy duty wire reinforced rubber suction hose for construction, quarries and general use.	50 - 200 PSI 29" HG	3/4" - 12"	-30°C to +80°C -22°F to +180°F
Saturn Water S & D	Clear abrasion and weather resistant extra soft low temperature PVC with blue helix.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations. Soft low temperature compounds allow for increased flexibility.	25 – 45 PSI 29" HG	3/4" – 6"	-40°C to +65°C -40°F to +150°F
Saturn Green PVC Water S & D	Clear abrasion and weather resistant PVC.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.	25 - 90 PSI 28 - 29" HG	3/4" - 8"	-20°C to +65°C -5°F to +150°F
Saturn Low Temperature PVC Water S & D	Clear abrasion and weather resistant extra soft PVC.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations. Specially formulated compounds allow for increased flexibility at low temperatures.	35 – 90 PSI 29" HG	3/4" – 6"	-40°C to +65°C -40°F to +150°F
Saturn Grey PVC Water S & D	Clear abrasion and weather resistant PVC.	An economical, flexible hose for construction pumps, septic tank & irrigation lines. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.	15 - 45 PSI 26 - 29" HG	1" - 12"	-40°C to +65°C -40°F to +150°F
Textile Reinforced S & D	Clear abrasion and weather resistant PVC with high tensile synthetic yarn reinforcement.	Great for both suction and discharge applications, this heavy duty hose can be used for multi-purpose pumping as well as fish suction hose.	40 – 110 PSI 28 – 29" HG	2" – 10"	-23°C to +65°C -10°F to +150°F
 Saturn White PVC Water Suction and Discharge Hose	Clear abrasion and weather resistant PVC with white helix.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Can also be used in air seeder applications.	35 - 90 PSI	3/4" - 8"	-20°C to +65°C -4°F to +150°F

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Water Suction - Also Available: EPDM Aggie Water S & D					
EPDM Water Suction	Great polypropylene and Black EPDM.	Agricultural suction, general industrial use where high working pressures are not required.	22 – 50 PSI 28" HG	1 1/2" – 6"	-40°C to +93°C -40°F to +140°F
Steam - Also Available: Textile Steam					
Steam 250	Red, lined, weather and abrasion resistant EPDM synthetic rubber tube and cover.	An extremely flexible steel reinforced hose for use with saturated steam at pressures to 250 PSI.	250 PSI	1/2" – 6"	-40°C to +210°C -40°F to +406°F
CR Steam 250	Red abrasion resistant EPDM cover with Chlorobutyl synthetic rubber tube.	An extremely flexible steel reinforced hose for use with saturated steam at pressures to 250 PSI.Chlorobutyl tube has a low permeation factor resulting in resistance to popcorning of tube.	250 PSI	1/2" – 2"	-40°C to +210°C -40°F to +406°F
Petroleum - Also Available: Agricultural Farm Tank, Tank Truck Drop, SAE100R4, W187 Vapour Recovery & Hot Tar & Asphalt					
Tank Truck	Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe.	An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic return line and suction.	150 PSI 28" HG	3/4" – 6"	-35°C to +93°C -30°F to +200°F
Super Black 250	Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe and pressure.	An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions up to 250 PSI. May also be used as hydraulic return line and suction.	250 PSI	2" - 6"	-35°C to +93°C -30°F to +200°F
LW Arctic Superflex 150 Petroleum	Blue weather and oil resistant synthetic rubber specially compounded for arctic service. Corrugated with white stripe.	Specially designed to remain flexible while handling a wide range of petroleum products, including gasoline and diesel under arctic conditions.	150 PSI	1 1/2" – 6"	-54°C to +88°C -65°F to +185°F
H.D.T Oil Tank Truck	Black, abrasion and oil resistant synthetic rubber with red stripe.	Specially designed for conveying hot oil and/or Glycol at temperatures up to 120°C (250°F).	150 PSI	2" - 4"	up to +120°C 250°F
LW Petroleum Tank 150	Black, abrasion, gasoline and oil resistant synthetic rubber with green stripe.	An all purpose lightweight and flexible petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic return line and suction.	150 PSI	2" – 6"	-40°C to +93°C -40°F to +200°F
Petroleum Discharge	Red, heat, oil and weather resistant Neoprene cover with nitrile tube.	For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.	150 - 200 PSI	3/4" - 4"	-35°C to +88°C -30°F to +190°F
Petroleum Discharge 250	Black, heat, oil and weather resistant Neoprene.	For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.	250 PSI	2" – 6"	-35°C to +88°C -30°F to +190°F
Petroleum Drop Hose	Orange PVC helix with high tensile synthetic yarn reinforcement and built in static wire.	For use as a tank truck gravity drop hose. Also for use with oil, fuel and grease transfer, oil slurry, hydrocarbons and animal fat handling. Features an external helix that protects the hose cover as well as enabling the hose to slide over rough surface.	65 - 70 PSI 28" HG	2" - 4"	-29°C to +65°C -20°F to +150°F

HOSE INFORMATION
HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Petroleum - *Also Available: Agricultural Farm Tank, Tank Truck Drop, SAE100R4, W187 Vapour Recovery & Hot Tar & Asphalt*					
 Urethane Bio-Drop Fuel Hose	Green PVC helix with polyurethane cover. BDR10P is clear wall for flow visibility and BDR10PB is black with added UV resistance.	For use as a tank truck gravity drop hose with nitrile, gasoline, diesel and ethanol. Lightweight and flexible with exposed pvc helix making it very user friendly.	65 PSI	3" - 4"	-40°C to +65°C -40°F to +150°F
 Vapour Three Duct & Vapour Recovery Hose	Convoluted yellow helix.	Vapour recovery from petroleum transfer operations. Embedded static wire serves to dissipate static electricity. NOT SUITABLE FOR CONVEYING LIQUIDS	9 - 17 PSI	2" - 4"	-40°C to +65°C -40°F to +150°F
Material Handling - *Also Available: Tan Bulkmaster, Furnace Door Cooling, Concrete Boom, Concrete Placement & Bulkmaster Hardwall*					
Aztec	Thick black corrugated abrasion and weather resistant synthetic blend cover. Red 3/8" thick super abrasion resistant natural rubber tube.	Primarily designed for handling abrasive slurries in mines and quarries. Can also be used for dry material handling of sand, gravel, grain, slag, and other such materials. External re-wettle belt at flanges allow for ease of installation, and uninterrupted free flow.	150 PSI 30" HG	3" - 12"	-40°C to +80°C -40°F to +180°F
Bulkmaster Sentinel	Black abrasion and weather resistant synthetic rubber cover with black abrasion resistant natural rubber tube. Green stripe on 1/4" thick tube.	Dry bulk discharge including limestone, ground silica, chalk, dry cement, fertilizer etc. May also be used for wet abrasive applications.	75 PSI	3" - 6"	-30°C to +80°C -25°F to +180°F
Sandblast	Black static conductive synthetic rubber cover with thick black static conductive abrasive resistant natural rubber tube.	For conducting sand, steel shot, and other abrasives for blast cleaning.	150 PSI	1/2" - 8"	-35°C to +80°C -28°F to +180°F
Industrial Vacuum	Black weather and abrasion resistant cover with black abrasion resistant pure gum rubber tube.	For handling abrasive dust from wood, metal, rock, marble and concrete grinding machines under vacuum.	40 PSI 10 - 24" HG	1" - 6"	-30°C to +80°C -25°F to +180°F
Chemical - *Also Available: Hypalon Acid S & D, Viton Lined S & D, EPDM Acid S & D*					
Chemical	Green oil/acid/chemical resistant EPDM rubber cover with cross-linked polyethylene tube.	The cross-linked polyethylene tube makes this one of the most versatile types of hose available to the chemical industry today. It will handle 98% of known chemical and petroleum products in both suction and discharge applications.	200 PSI 29" HG	1/2" - 4"	-29°C to +120°C -20°F to +248°F
Flexchem	Green corrugated chemical resistant EPDM rubber with FDA UHMW polyethylene tube.	Similar to Chemical hose above but may be used at lower temperatures. More versatile than our Chemical hose, Flexchem handles 98 per cent of known chemicals and can be steam cleaned. Corrugated cover results in a more flexible hose.	200 PSI 29" HG	3/4" - 4"	-40°C to +65°C -40°F to +150°F
Material Handling Polyurethane and PVC - *Also Available: Grey PVC Vacuum*					
B Flex/B Flex Static	Corrugated clear PVC rigid helix. FDA, 3A and USDA compliant.	Conveying of dry powders, grains and plastic pellets where viewing the product is important. B Flex Static has built-in static wire.	25 - 45 PSI 29" HG	1 1/2" - 8" and Sizes	-25°C to +65°C -10°F to +150°F
Neptune Suction/Neptune Static Suction	Corrugated clear PVC with clear rigid PVC helix. FDA, 3A and USDA compliant.	Suction and discharge of liquids, grains, plastic pellets and powders where moderate abrasion is a factor. Neptune Static has built-in static wire.	20 - 55 PSI 29" HG	1" - 8"	-22°C to +65°C -10°F to +150°F

Other Hoses Available: Auto Heater Hose, Marine Hardwall/SloFlow/Fuel Fill Hose, Silicone Coolant and Heater Hose. Garage Exhaust Hose, Welding Hose, Pressure Washer Hose, Paint Spray Hose, Auto Fuel Line Hose.

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Material Handling Polyurethane and PVC - Also Available: Grey PVC Vacuum					
PU Vac/PU Vac Lite/PU Vac Static	Corrugated clear abrasion and weather resistant Polyurethane with grey PVC helix. FDA, 3A and USDA compliant.	Ideal for applications where conventional rubber or PVC hose will wear rapidly, i.e. grain loading, abrasive powder recovery, dust collection. PU Vac Static has built-in static wire.	8 – 50 PSI 28" HG	1 1/2" – 8"	-40°C to +65°C -40°F to +150°F
ARJ HD	Blue HMW PVC up to 5" I.D. Black cover in 6" and 8" I.D	Used in a variety of material handling application where a good resistance to abrasion is required, such as transfer of sands, plastic pellets, gravel, wood chips, slurries and fly ash. Also for use on vacuum excavation trucks. Cover is a specially formulated static dissipative compound with low temperature flexibility.	30 - 45 PSI 28 - 29" HG	2" - 8"	-40°C to +65°C -40°F to +150°F
ARJ	This hose has a polyurethane tube with an HMC cover. Cover is a specially formulated technical alloy that makes this hose antistatic.	Used in a variety of material handling application where a good resistance to abrasion is required, such as transfer of sands, plastic pellets, gravel, wood chips, slurries and fly ash.	30 - 45 PSI 29" HG	2" - 8"	-40°C to +65°C -40°F to +150°F
Food - Also Available: Pure Gum Tubing, Polyethylene Tubing & Clear Vinyl Tubing					
Bacco	Extruded clear, food grade PVC non-marking with red stripe FDA compliant. FDA, 3A and USDA compliant.	Alcoholic beverages up to 25% alcohol content. Fruit juices, soft drinks and other liquid foodstuffs. Also suitable for dry bulk foodstuffs.	85 – 85 PSI 28" HG	3/4" – 5" and 38 – 50mm	-23°C to +65°C -10°F to +150°F
Brewers and Beverage Discharge	Red abrasion resistant natural rubber tube and cover.	Will handle a wide range of non fatty-oily food products up to 80°C where taste and aroma must not be affected.	140 PSI	3/4" - 3"	-55°C to +80°C -30°F to +180°F
Wirevac	Extruded clear PVC with wire helix. Super Wirevac has additional layer of fabric reinforcement. FDA, 3A, USDA and NSF-51 compliant.	An extremely flexible transparent hose for use where full vacuum performance is required while monitoring the contents of the hose. Ideal for use with short food-stuffs, cosmetics, beverages, and a wide range of chemical solutions. Also suitable for lubricating oils and animal fats.	45 – 250 PSI 28" HG	5/8" – 3"	-10°C to +65°C +15°F to +150°F
Foodflex PVC S & D	Clear PVC non-marking. FDA, 3A and USDA compliant.	For dry bulk foodstuffs, pharmaceuticals, cosmetics, milk, fruit and vegetable juices, soft drinks, alcoholic beverages, flour, sugar etc. Clear wall allows visual inspection of the product.	50 - 85 PSI 29" HG	3/4" - 4"	-23°C to +65°C -10°F to +150°F
Foodflex Textile Reinforced S & D (Food Grade)	Clear PVC non-marking with high tensile yarn reinforcement. FDA, 3A and USDA compliant.	For liquid or dry bulk foodstuffs, pharmaceuticals, cosmetics, milk, fruit and vegetable juices, soft drinks, alcoholic beverages, flour, sugar, poultry or meat packing etc. Clear wall allows visual inspection of the product.	60 – 110 PSI 28 – 29" HG	2" – 8"	-23°C to +65°C -10°F to +150°F

HOSE INFORMATION
HOSE ACCESSORIES

CLEAR REINFORCED PVC (FOOD QUALITY)

APPLICATION:An economical hose for handling air, water, oil, mild chemicals, and alkalis. Clear wall allows visual inspection of product. COVER:Clear smooth PVC REINFORCEMENT:Multiple layers of synthetic yarns TUBE:Clear smooth PVC
TEMPERATURE:-5C to +65C(+25F to +150F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
CRPVC-019	3/16	0.38	250	300	0.05	---
CRPVC-025	1/4	0.43	250	300	0.07	---
CRPVC-025-100	1/4	0.43	250	100	0.07	---
CRPVC-031	5/16	0.53	300	300	0.08	---
CRPVC-031-100	5/16	0.53	300	100	0.08	---
*CRPVC-038	3/8	0.59	250	300	0.09	---
CRPVC-038-100	3/8	0.59	250	100	0.09	---
*CRPVC-050	1/2	0.71	250	300	0.15	---
*CRPVC-050-100	1/2	0.71	250	100	0.15	---
CRPVC-063	5/8	0.87	200	300	0.17	---
CRPVC-063-100	5/8	0.87	200	100	0.17	---
CRPVC-075	3/4	1.02	180	300	0.23	---
CRPVC-075-100	3/4	1.02	180	100	0.23	---
*CRPVC-100	1	1.30	150	300	0.32	---
*CRPVC-100-100	1	1.30	150	100	0.32	---
CRPVC-125	1-1/4	1.61	100	100	0.58	---
CRPVC-150	1-1/2	1.89	85	100	0.69	---
CRPVC-200	2	2.44	65	100	1.00	---

Standard Length: 3/16"-3/4" 100'/300' coil, 1" 100'/200' coil, 1-1/4"-2" 100' coil
Product Info: Compliant with the applicable requirements and standards of FDA USDA 3-A and NSF-51. Please specify length when ordering i.e. 100' or 300'
Safety Info: Working pressure ratings are based on 20C (68F). At operating temperature of +65C (150F) reduce working pressure by 50%. Recommended Couplings: Combination nipples, short shank, brass barbed, cam and groove. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

AIR & GENERAL PURPOSE HOSE

HOSE ACCESSORIES

HOT AIR BLOWER HOSE

APPLICATION:FOR CONVEYING HOT AIR FROM BLOWER TO TANK ON DRY BULK TRUCKS.
COVER:Black heat and weather resistant EPDM rubber.
REINFORCEMENT:High tensile wire helix embedded between layers of heat resistant synthetic fabric.
TUBE:Black specially compounded heat resistant EPDM rubber.
TEMPERATURE:-40C to +163C(-40F to +350F)

PART #	NOM. ID"	NOM. OD"	PSI	BEND RADIUS	STD PACK	WEIGHT#	LIST PRICE
*BLOW150-300	3	3.62	150	12.00	100	1.75	---
*BLOW150-400	4	4.65	150	15.00	100	2.40	---

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipples or short shank. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

JACKHAMMER - AIR

APPLICATION:AN ECONOMICAL AIR HOSE FOR JACKHAMMER AND OTHER USES ON CONSTRUCTION SITES. ALSO FOR GENERAL INDUSTRIAL USE
COVER:Red smooth cut and abrasion resistant REINFORCEMENT:Multiple layers of synthetic yarn
TUBE:Synthetic oil mist resistant
TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	COLOR	LIST PRICE
JACK-075-50	3/4	1.14	300	50	0.40	Yellow	---
JACK-075R-50	3/4	1.14	300	50	0.40	Red	---
JACK-075G-50	3/4	1.14	300	50	0.40	Green	---
JACK-075BL-50	3/4	1.14	300	50	0.40	Blue	---
JACK-075-CUASSP*	3/4"	1.14	300	50	0.40	Yellow	---
JACK-075R-CUASSP	3/4"	1.14	300	50	.40	Red	

Standard Length: 50'
Recommended Couplings: High Pressure, mine stem and nut, Universal quick acting. Crimplok universals. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

* C/W CRIMP UNIVERSAL ASSEMBLED

EPDM GENERAL PURPOSE 300

APPLICATION:Air, water, agricultural spray solutions, and other dilute chemicals Excellent resistance to heat and weathering Also resists animal fats, vegetable oils.
COVER:Smooth red abrasion and weather resistant EPDM synthetic rubber
REINFORCEMENT:Multiple layers of synthetic yarn TUBE:Synthetic oil mist resistant EPDM synthetic rubber
TEMPERATURE:-30C to +93C(-20F to +200F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
*GPE-025-300	1/4	0.55	300	300	0.14	---
*GPE-038-300	3/8	0.70	300	300	0.20	---
*GPE-050-300	1/2	0.87	300	300	0.27	---
*GPE-063-300	5/8	0.98	300	300	0.31	---
GPE-075-300	3/4	1.16	300	300	0.44	---
* GPE-100-300	1	1.42	300	300	0.59	---

Standard Length: 300'
Recommended Couplings: High Pressure, Short shank, universal, or Combination nipples all other sizes. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PREMIUM GENERAL PURPOSE NON CONDUCTIVE WITH REEL

APPLICATION:Air, water, agricultural spray solutions, and other dilute chemicals Excellent resistance to heat and weathering Also resists animal fats, vegetable oils.
COVER: Red, Oil, Grease, Weather & Abrasion resistent nitrile
REINFORCEMENT:Multiple layers of synthetic yarn TUBE:Synthetic oil mist resistant EPDM synthetic rubber
TEMPERATURE:-30C to +93C(-20F to +200F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
PREMR-038-300	3/8	0.67	300	300	0.17	---
PREMR-050-300	1/2	0.79	300	300	0.21	---
PREMR-075-300	3/4	1.14	300	300	0.39	---
PREMR-100-300	1	1.42	300	300	0.51	---
PREM-125-250	1-1/4	1.77	300	200	0.70	---

Standard Length: 1/4"- 1" 50'/100'/300'. 1-1/4" - 2" 50'/100'.
Recommended Couplings: High Pressure 1"to 1-1/2" for air service if the working pressure exceeds 150 psi. High Pressure, Short shank, universal, or Combination nipples all other sizes. Crimplok universals. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

AIR & GENERAL PURPOSE HOSE

HOSE ACCESSORIES

PUSH-ON BLACK

APPLICATION:Transmission of most petroleum-based hydraulic fluids, mineral oil, diesel fuel, engine coolant solutions, agricultural sprays and a wide range of chemical solutions. Also suitable for air and water service
COVER:Black, oil, weather and abrasion resistant Neoprene.
REINFORCEMENT:Multiple layers of polyester yarns.
TUBE:Black oil resistant nitrile rubber.
TEMPERATURE:-32C to +80C(-25F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
PON-025-B	1/4	0.50	250	700'	0.10	---
PON-038-B	3/8	0.63	250	700'	0.14	---
PON-050-B	1/2	0.75	250	700'	0.17	---
PON-063-B	5/8	0.91	250	700'	0.19	---
PON-075-B	3/4	1.03	250	700'	0.19	---

Standard Length: Supplied on reels
Recommended Couplings: Push-on

MARINE EXHAUST HARDWALL

APPLICATION:Marine exhaust applications, and other general applications where non-standard sizes are specified. Meets SAEJ 2006 R1
COVER:Black heat and weather resistant synthetic rubber with blue identification stripe.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black heat resistant rubber specially compounded for wet marine exhaust service.
TEMPERATURE:-40C to +100C(-40F to +212F)

PART #	NOM. ID"	NOM. OD"	STD PACK	WEIGHT#	LIST PRICE
MXH-238	2-3/8	2.68	100'	1.98	---
MXH-250	2-1/2	2.81	100'	1.82	---
MXH-300	3	3.54	100'	2.12	---
MXH-350	3-1/2	4.09	100'	2.77	---
MXH-400	4	4.57	100'	3.22	---
MXH-500	5	5.55	100'	3.59	---

Standard Length: not on reels
Recommended Couplings: Push-on

FUEL LINE

APPLICATION:Fuel and vapour emission lines, meets SAE 30R7 specification and is USCG Type B and BIA approved.
COVER:Black heat and fuel resistant Hypalon.
REINFORCEMENT:Two layers of synthetic yarns.
TUBE:Black fuel resistant nitrile rubber.
TEMPERATURE:-40C to +120C(-40F to +250F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
FUEL-025	1/4	0.49	50	300'	0.10	---
FUEL-031	5/16	0.58	50	300'	0.13	---
FUEL-038	3/8	0.63	50	300'	0.13	---

Cut Lengths: Plus 5%
Standard Length: 300' coils:
Recommended Couplings: Barbed short shank, combination nipples.

ARI SUCTION

APPLICATION:Used in a variety of material handling application where a good resistance to abrasion is required, such as transfer of sands, plastic pellets, gravel, wood chips, slurries and fly ash. Cover is a specially formulated static dissapative compound with low temperature flexibility.
COVER:Black HMW PVC
REINFORCEMENT:Anti shock rigid pvc helix
TUBE:Polyurethane
TEMPERATURE:-40C to +65C(-40F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
ARI-300	3	3.65	29	40	4.00	100'	1.18	---
ARI-400	4	4.76	29	35	6.00	100'	1.95	---
ARI-600	6	6.80	28	30	12.00	100'	3.51	---

Standard Length: 100'
Safety Info: Suction and pressure ratings are based on a temperature of 20C (68F), reduce ratings by 50% at maximum working temperature. This hose has no fabric reinforcement and normally should not be used under pressure for service at temperatures above 25C (75F).
Recommended Couplings: Cam and groove

MATERIAL HANDLING
HOSE ACCESSORIES

BULKMASTER SOFTWALL

APPLICATION:Dry bulk discharge including limestone, ground silica, chalk, dry cement, fertilizer etc. May also be used for wet abrasive applications.
COVER:Black abrasion and weather resistant synthetic rubber.
REINFORCEMENT:Multiple layers of high tensile synthetic cords.
TUBE:Black abrasion resistant ant-static natural rubber in 1/8", 3/16" and 1/4"
TEMPERATURE:-30C to +80C(-25F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
BSB-400-187	4	4.64	75	100'	2.33	---
BSB-400-250	4	4.72	75	100'	2.65	---
BSB-450-125	4-1/2	5.00	75	100'	2.09	---
BSB-500-187	5	5.63	75	100'	2.75	---
BSB-500-250	5	5.79	75	100'	3.50	---
BSB-600-250	6	6.81	75	100'	4.29	---

Standard Length: 100'
Product Info: Longer lengths available, check for price and availability
Recommnded Couplings: Cam and groove. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

INDUSTRIAL VACUUM HEAVY DUTY LENGTHS

APPLICATION:For handling abrasive dust from wood, metal, rock, marble and concrete grinding machines under vacuum.
COVER:Black abrasion resistant rubber, corrugated for flexibility.
REINFORCEMENT:A high tensile steel helix embedded between layers of textile cords.
TUBE:1/4" or 1/8" red Pure Gum abrasion resistant rubber standard.
TEMPERATURE:-30C to +80C(-25F to +180F)

PART #	ASSEMBLY DESCRIPTION	NOM. OD"	VACUUM	PSI	BEND RADIUS"	WEIGHT#	LIST PRICE
IVB-800-250RPG2	8"x25' H.D.IND VAC. 1/4" Red w/cuffs	9.01	28	50	30.00	190.00	---
IVB-800-250RPG3	8"x32' H.D.IND VAC. 1/4" Red w/cuffs	9.01	28	50	30.00	243.80	---
IVB-800-250RPG7	8"x70' H.D.IND VAC. 1/4" Red Tube	9.01	28	50	30.00	716.10	----

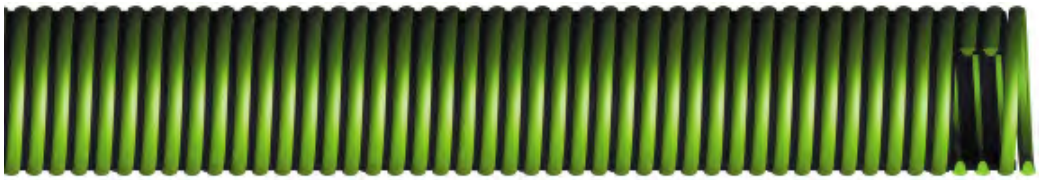
SANDBLAST

APPLICATION:For conducting sand, steel shot, and other abrasives for blast cleaning.
COVER:Black static conductive synthetic rubber.
REINFORCEMENT:Two (SBB) or Four (SBB4) layers of synthetic textile cords.
TUBE:Thick black static conductive abrasion resistant natural rubber.
TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
SBB-075-100	3/4	1.50	150	100'	0.68	---
SBB-075-50	3/4	1.50	150	50'	0.68	---
SBB-125-100S	1-1/4	2.16	150	100'	1.22	---
SBB-125-50S	1-1/4	2.16	150	50'	1.22	---
SBB-150-50	1-1/2	2.36	150	50'	1.36	---
SBB-300	3	3.98	150	100'	2.57	---

Standard Length: 50'/100'
Product Info: Longer lengths available up to 200'. Surcharges may apply
Recommended Couplings: Sandblast

EPDM WATER SUCTION



APPLICATION:For use in liquid waste suction application. Also for use with liquid or dry chemcial suction applications or general industrial use where high working pressures are not required.
COVER:Green Polyethylene helix and specially formulated rubber.
REINFORCEMENT:Rigid green Polyethylene helix.
TUBE:Smooth specially formulated rubber
TEMPERATURE:-40C to +60C(-40F to +140F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
EPDM-150	1-1/2	1.85	29	50	3.50	100'	0.40	---
EPDM-200	2	2.44	29	50	5.50	100'	0.67	---
EPDM-300	3	3.52	29	42	7.50	100'	1.10	---
EPDM-400	4	4.61	29	38	12.00	100'	1.84	---

Standard Length: 100'
Recommended Couplings: Cam and groove or short shank, Crimplok camd and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM & CHEMICAL HOSE
HOSE ACCESSORIES

FLEXLITE UHMW

APPLICATION:The (UHMW) Ultra High Molecular Weight polyethylene tube makes this one of the most versatile types of hose available to the chemical industry today. It will handle 94% of common chemical and petroleum products in both suction and discharge applications.This hose is very flexible due to its corrugated cover and low temperature characteristics. This hose can also be used in dry food applications due to its FDA Compliant tube.
COVER:Green corrugated chemical resistant EPDM rubber
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Smooth chemical resistant (UHMW) Ultra High Molecular Weight polyethylene FDA Compliant tube
TEMPERATURE:-40C to +100C(-40F to +212F) Can be open end steam cleaned to 120C or 248F for 30 minutes

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
FLX-075	3/4	1.22	29	200	2.00	100'	0.40	---
FLX-100	1	1.46	29	200	2.50	100'	0.47	---
FLX-150	1-1/2	2.01	29	200	3.75	100'	0.80	---
FLX-200	2	2.52	29	200	5.00	100'	1.00	---
FLX-300	3	3.58	29	200	7.50	100'	1.74	---
FLX-400	4	4.64	29	150	10.00	100'	2.48	---

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose.

FLXLITE UHMW

APPLICATION:The (UHMW) Ultra High Molecular Weight polyethylene tube makes this one of the most versatile types of hose available to the chemical industry today. It will handle 94% of common chemical and petroleum products in both suction and discharge applications.This hose is very flexible due to its corrugated cover and low temperaqture characteristics. This hose can also be used in dry food applications due to its FDA Compliant tube.
COVER:Green chemical resistant EPDM rubber
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Smooth chemical resistant (UHMW) Ultra High Molecular Weight polyethylene FDA Compliant tube
TEMPERATURE:-40C to +100C(-40F to +212F) Can be open end steam cleaned to 120C or 248F for 30 minutes

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
FLXS-100	1	1.46	29	200	4.00	100'	0.62	---
FLXS-200	2	2.60	29	200	6.00	100'	1.14	---
FLXS-300	3	3.62	29	200	8.00	100'	2.26	---
FLXS-400	4	4.65	29	200	12.00	100'	3.25	---

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

FLEXLITE PETROLEUM TANK 150

APPLICATION:An all purpose lightweight and flexible petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black corrugated, abrasion, gasoline and oil resistant synthetic rubber with green stripe.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-40C to +93C(-40F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
TTD150-200	2	2.53	29	150	4.00	100'	1.44	---
TTD150-300	3	3.62	29	150	6.00	100'	2.48	---
TTD150-400	4	4.72	29	150	9.00	100'	3.63	---

Standard Length: 100'
Product Info: Longer lengths available on request. Please check for availability and pricing
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

TANK TRUCK 150

APPLICATION: An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with red stripe and pressure.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST
TLBS150-100	1	1.42	29	150	3.00	100	0.57	---
TLBS150-150	1-1/2	1.93	29	150	4.00	100	0.81	---
TLBS150-200	2	2.52	29	150	4.50	100	1.38	---
TLBS150-300	3	3.54	29	150	7.00	100	2.19	---
TLBS150-400	4	4.68	29	150	10.00	100	3.56	---
TLBS150-600	6	6.89	29	150	21.00	100	6.65	---

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM & CHEMICAL HOSE
HOSE ACCESSORIES

TANK TRUCK

APPLICATION:An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe and pressure
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
TLB-075	3/4	1.14	29	150	3.00	100'	0.43	---
TLB-100	1	1.42	29	150	3.00	100'	0.57	---
TLB-125	1-1/4	1.65	29	150	3.50	100'	0.62	---
TLB-150	1-1/2	1.93	29	150	4.00	100'	0.81	---
TLB-200	2	2.52	29	150	4.50	100'	1.38	---
TLB-250	2-1/2	2.99	29	150	4.75	100'	1.72	---
TLB-400	4	4	29	150	10.00	100'	3.56	---

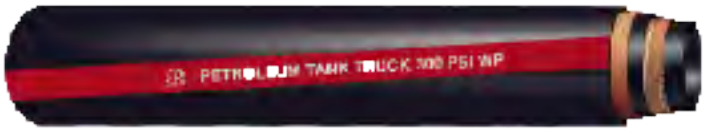
OIL VACUUM - SMOOTH

APPLICATION:An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with red stripe and pressure.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
OILVS-150	1-1/2	1.89	29	150	4.00	100	0.75	---
OILVS-200	2	2.43	29	150	4.50	100	1.07	---
OILVS-300	3	3.47	29	150	7.00	100	1.78	---
OILVS-400	4	4.52	29	150	10.00	100	2.58	---

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

TANK TRUCK 300



APPLICATION:An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions up to 300 PSI. May also be used as hydraulic suction and return line.
COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with red stripe and pressure
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
TLBS300-200	2	2.62	29	300	5.00	100'	1.43	---
TLBS300-300	3	3.67	29	300	7.00	100'	2.20	---
TLBS300-400	4	4.71	29	300	10.00	100'	3.63	---
TLBS300-600	6	6.91	29	300	21.00	100'	6.90	---

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

OIL VACUUM CORRUGATED

APPLICATION:Designed for transferring petroleum waste, sediments, sludge, diluted mild chemicals, brine and water in oil field tank and waste pit recovery applications, not suitable for refined petroleum products or high concentrations of chemicals
COVER:Black, corrugated abrasion oil resistant synthetic rubber with blue stripe and pressure
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black synthetic rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
OILVC-200	2	2.44	29	150	4.00	100'	0.89	---
OILVC-300	3	3.46	29	150	6.00	100'	1.42	---
OILVC-400	4	4.52	29	150	9.00	100'	2.44	---

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM AND CHEMICAL HOSE
HOSE ACCESSORIES

FRACLINE 400

APPLICATION:For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions. Specifically designed for use in Frac service.
COVER:Black, heat, oil and weather resistant Neoprene.
REINFORCEMENT:Multiple layers of synthetic textile cords, with static wire.
TUBE:Black, heat and oil resistant synthetic rubber.
TEMPERATURE:-35C to +88C(-30F to +190F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
FRAC400-300	3	3.65	400	100'	1.80	---
FRAC400-400	4	4.80	400	100'	2.81	---
FRAC400-600	6	6.80	400	100'	5.20	---

Standard Length: 100'
Recommended Couplings: Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM DISCHARGE

APPLICATION:For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.
COVER:Red, heat, oil and weather resistant Neoprene.
REINFORCEMENT:Multiple layers of synthetic textile cords, with static wire.
TUBE:Black, heat and oil resistant synthetic rubber.
TEMPERATURE:-35C to +88C(-30F to +190F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
PDR-125	1-1/4	1.69	150	100'	0.58	---
PDR-150	1-1/2	1.97	150	100'	0.78	---
PDR-300	3	3.50	150	100'	1.64	---
PDR-400	4	4.57	150	100'	2.46	---
PDR-600	6	6.72	150	100'	3.89	---

Standard Length: 50'/100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference.

PETROLEUM DISCHARGE 250

APPLICATION:For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions. Specifically designed for use in Frac service.
COVER:Black, heat, oil and weather resistant Neoprene.
REINFORCEMENT:Multiple layers of synthetic textile cords, with static wire.
TUBE:Black, heat and oil resistant synthetic rubber.
TEMPERATURE:-35C to +88C(-30F to +190F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
PDB250-200	2	2.50	250	100'	1.14	---
PDB250-300	3	3.54	250	100'	1.80	---
PDB250-400	4	4.64	250	100'	2.81	---
PDB250-600	6	6.69	250	100'	5.20	---

Standard Length: 50'/100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

HOT TAR AND ASPHALT

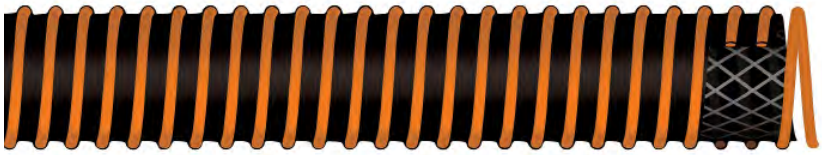
APPLICATION:Specially designed for conveying hot tar and asphalt at temperatures up to 160 C (350 F).
COVER:Black Neoprene synthetic rubber.
REINFORCEMENT:High tensile wire helix embedded between multiple layers of heat resistant synthetic yarns
TUBE:Specially compounded heat resistant synthetic rubber compound.
TEMPERATURE:up to +177C(350F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
HTA-300	3	3.77	150	100'	2.94	---
HTA-400	4	4.85	150	100'	4.20	---

Standard Length: 100'
Recommended Couplings: Cam and Grove, combination nipple. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM AND CHEMICAL HOSE
HOSE ACCESSORIES

PETROLEUM TRANSFER



APPLICATION:For use with oil, fuel and grease transfer, oil slurry, hydrocarbons and animal fat handling.
Features an external helix that protects the hose cover as well as enabling the hose to slide over rough surface.
Static wire embedded in helix for ease of grounding.
COVER:Orange PVC Helix with built in static wire
REINFORCEMENT:High tensile synthetic textile yarn
TUBE:Specially formulated compound for fuel transfer
TEMPERATURE:-40C to +93C(-40F to +200F)

PART #	NOM. ID"	NOM. OD"	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
FLDROP-200	2	2.87	150	5.00	100'	1.29	---
FLDROP-400	4	5.00	75	12.00	100'	2.51	---

Standard Length: 50'/100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

STEAM 250 BLACK

APPLICATION:An extremely flexible hose for use with saturated steam at pressures to 250 PSI .
COVER:Black abrasion and heat resistant EPDM rubber, with embossed brand and pressure.
REINFORCEMENT:Multiple layers of high tensile steel cords.
TUBE:Black heat resistant EPDM synthetic rubber.
TEMPERATURE:-40C to +210C(-40F to +406F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
ST250B-075-50	3/4	1.26	250	50'	0.48	---
ST250B-100-50	1	1.50	250	50'	0.60	---
ST250B-150-50	1-1/2	2.13	250	50'	1.10	---
ST250B-200-50	2	2.64	250	50'	1.48	---

Standard Length: 50'
Recommended Couplings: High Pressure with interlocking clamps

STEAM 250

APPLICATION:An extremely flexible hose for use with saturated steam at pressures to 250 PSI .
COVER:Red abrasion and heat resistant EPDM rubber, with embossed brand and pressure.
REINFORCEMENT:Multiple layers of high tensile steel cords.
TUBE:Black heat resistant EPDM synthetic rubber.
TEMPERATURE:-40C to +210C(-40F to +406F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
ST250-075-50	3/4	1.26	250	50'	0.48	---
ST250-075-100	3/4	1.26	250	100'	0.48	---
ST250-100-50	1	1.50	250	50'	0.60	---
ST250-100-100	1	1.50	250	100'	0.60	---
ST250-200-50	2	2	250	50'	1.48	---
ST250-200-100	2	2	250	100'	1.48	---
ST250-300	3	3	250	100'	3.40	---

Standard Length: 50'/100'
Product Info: Longer lengths available on request. Please check for availability and pricing
Recommended Couplings: High Pressure with interlocking clamps

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

BLUE LAYFLAT

APPLICATION:A LIGHT DUTY LAYFLAT HOSE FOR PORTABLE PUMP AND IRRIGATION USE.
COVER:Blue PVC impregnation. REINFORCEMENT:Woven high tensile synthetic yarns. TUBE:Blue PVC impregnation.
TEMPERATURE:-10C to +55C(15F to +130F)

PART #	NOM. ID"	NOM.OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
BLAY-100	1	1.11	150	300	0.13	---
BLAY-125	1-1/4	1.37	130	300	0.15	---
BLAY-150	1-1/2	1.63	70	300	0.15	---
*BLAY-200	2	2.13	65	300	0.20	---
BLAY-250	2-1/2	2.63	65	300	0.27	---
*BLAY-300	3	3.13	60	300	0.33	---
*BLAY-400	4	4.14	60	300	0.46	---
*BLAY-600	6	6.15	35	300	0.78	---

Standard Length: Multiples of 50' up to 300' maximum
Product Info: Please specify length required when ordering, i.e.50', 100'
Safety Info: Reduce pressures by 50% at maximum working temperature
Recommended Couplings: Cam and groove or short shank

BLUE LAYFLAT ASSEMBLY

PART #	ASSEMBLY DESCRIPTION	WEIGHT#	LIST PRICE
BLAY-150-CASS	1-1/2" X 50' BLUE LAYFLAT +C/E CAMLOCK	7.00	---
BLAY-200-CASS	2"X50'BLUE LAYFLAT+C/E CAMLOCK	12.20	---
*BLAY-300-CASS	3"X50'BLUE LAYFLAT+C/E CAMLOCK	20.63	---
*BLAY-400-CASS	4"X50'BLUE LAYFLAT+C/E CAMLOCK	29.49	---
BLAY-600-CASS	6"X50'BLUE LAYFLAT+C/E CAMLOCK	51.08	---

BROWN LAYFLAT - HEAVY DUTY

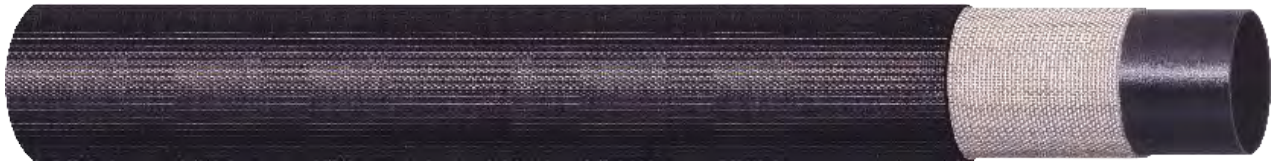
APPLICATION:Heavy duty layflat hose for portable pump and irrigation use.
COVER:Brown PVC impregnation.
REINFORCEMENT:Woven high tensile synthetic yarns.
TUBE:Brown heavy PVC impregnation.
TEMPERATURE:-10C to +60C(15F to +140F)

PART #	NOM. ID"	NOM.OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
BRLAYHD-200	2	2.15	150	300'	0.26	---
BRLAYHD-300	3	3.19	150	300'	0.52	---
BRLAYHD-400	4	4.27	135	300'	0.74	---
BRLAYHD-600	6	6.26	115	300'	1.21	---

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

DURAFLEX - RUBBER LAYFLAT



APPLICATION:SPECIFICALLY MANUFACTURED TO COMPETE WITH OROFLEX IMITATION HOSE. THIS IS A LIGHTWEIGHT HIGH PRESSURE, EXTREMELY STRONG HOSE FOR GENERAL WATER DISCHARGE SERVICE. IDEAL FOR RENTAL SERVICE WHERE LONG LIFE AND
competitive pricing is paramount. Its compact characteristics make this an ideal hose for use with portable pumps. Especially suited for pumping oily contaminated water. COVER:Black abrasion, weather and oil resistant nitrile rubber. REINFORCEMENT:Circular woven synthetic yarns.
TUBE:Black abrasion and oil resistant nitrile rubber.
TEMPERATURE:-20C to +80C(0F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
DURFL-200	2	2.18	200	300	0.31	---
*DURFL-300	3	3.22	175	300	0.59	---
*DURFL-400	4	4.24	150	300	0.65	---
*DURFL-600	6	6.26	150	300	1.10	---

Standard Length: 50'/100'
Product Info: 200 Lengths Will Be Shipped Unless Otherwise Specified On Duraflex
Recommended Couplings: Cam and groove, combination nipples or short shank. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases, the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

DURAFLEX - RUBBER LAYFLAT ASSEMBLY

PART #	ASSEMBLY DESCRIPTION	WEIGHT#	LIST PRICE
DURFL-200-CASSP	2"x50' DURAFLEX + C/E CAMLOCK	14.20	---
DURFL-300-CASSP	3"x50' DURAFLEX + C/E CAMLOCK	21.63	---
DURFL-400-CASSP	4"x50' DURAFLEX + C/E CAMLOCK	28.99	---
DURFL-600-CASSP	6"x50' DURAFLEX + C/E CAMLOCK	51.67	----
DURFL-400-CCASSP	4" x 50' DURAFLEX + C/E CAMLOCK	28.99	----

HIGH PRESSURE CONTRACTORS WATER DISCHARGE

APPLICATION:For use on construction sites and general water service. High pressure allows pumping against greater vertical heads
COVER:Black abrasion and weather resistant synthetic rubber, with embossed brand and pressure.
REINFORCEMENT:Multiple layers of synthetic yarn.
TUBE:Black synthetic rubber compounded for water service.
TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
HPCWB-150	1-1/2	1.77	150	100'	0.49	---
HPCWB-200	2	2.28	150	100'	0.48	---
HPCWB-300	3	3.35	150	100'	1.08	---
HPCWB-400	4	4.37	150	100'	1.38	---
HPCWB-600	6	6.46	150	100'	2.62	---

Standard Length: 50'/100'
Recommended Couplings: Cam and groove, combination nipples or short shank. Crimplok camd and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

HIGH PRESSURE WATER DISCHARGE 250

APPLICATION:For use on construction sites and general water service. High pressure allows pumping against greater vertical heads
COVER:Black abrasion and weather resistant synthetic rubber, with embossed brand and pressure.
REINFORCEMENT:Multiple layers of synthetic yarn.
TUBE:Black synthetic rubber compounded for water service.
TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
HPCWB200-150	1-1/2			100'		---
HPCWB250-200	2	2.40	250	100'	1.15	---
HPCWB250-300	3	3.46	250	100'	1.60	---
HPCWB200-400	4	4.48	200	100'	2.15	---

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipples or short shank. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

SATURN GREEN PVC WATER S&D

APPLICATION:An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.
COVER:Clear abrasion and weather resistant PVC.
REINFORCEMENT:Green PVC helix.
TUBE:Smooth clear PVC.
TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
SATG-075	3/4	0.95	29	90	2.00	100	0.16	---
*SATG-100	1	1.24	29	85	3.00	100	0.26	---
*SATG-125	1-1/4	1.54	29	80	4.00	100	0.34	---
*SATG-150	1-1/2	1.81	29	70	6.00	100	0.44	---
*SATG-200	2	2.29	29	65	5.00	100	0.57	---
SATG-250	2-1/2	2.85	29	60	6.00	100	0.87	---
*SATG-300	3	3.43	29	60	12.00	100	1.21	---

Standard Length: 100'
Safety Info: Reduce pressures by 50% at maximum working temperature
Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

SATURN OLIVE GREEN PVC WATER S&D

APPLICATION:AN ECONOMICAL, FLEXIBLE HOSE FOR CONSTRUCTION PUMPS, SEPTIC TANK & MARINE PUMP-OUT SERVICE. RESISTANT TO SOME CHEMICALS, MILD ACIDS & ALKALIS. CONSULT US FOR RECOMMENDATIONS.
COVER:Green abrasion and weather resistant PVC.
REINFORCEMENT:Green PVC helix
TUBE:Smooth green PVC
TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
*SATO-200	2	2.34	29	5.00	100	0.66	---
*SATO-300	3	3.46	29	12.00	100	1.24	---

Standard Length: 100'
Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature
Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

SATURN PVC WATER S&D

APPLICATION:An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations. Specially formulated compounds and a slightly corrugated cover allow for increased flexibility at low temperatures.
COVER:Clear abrasion and weather resistant extra soft PVC.
REINFORCEMENT:Blue PVC helix. SAT-XXX-BLK - Black helix
TUBE:Smooth clear extra soft PVC.
TEMPERATURE:-40C to +65C(-40F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
SAT-200	2	2.35	26	35	5.00	100'	0.49	---
SAT-300	3	3.42	24	30	7.50	100'	0.81	---
SAT-400	4	4.50	22	25	10.00	100'	1.52	---

Standard Length: 100'
Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

SATURN WHITE PVC WATER SUCTION AND DISCHARGE HOSE

APPLICATION:An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.
COVER:Clear abrasion and weather resistant PVC.
REINFORCEMENT:White PVC helix.
TUBE:Smooth clear PVC.
TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
SATW-100	1	1.18	29	85	3.00	100'	0.19	---
SATW-125	1-1/4	1.47	29	80	3.00	100'	0.29	---
SATW-150	1-1/2	1.72	29	70	4.00	100'	0.35	---
SATW-200	2	2.29	29	65	5.00	100'	0.57	---
SATW-300	3	3.35	29	55	8.00	100'	1.03	---
SATW-400	4	4.45	29	50	10.00	100'	1.78	---

Standard Length: 100'
Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

SUPERFLEX PVC SUCTION

APPLICATION:Specially designed for use in the installation of pool, spa and hot tubs. Can also be used in a variety of water transfer applications where flexible lines are needed to replace rigid piping.
COVER:Soft white PVC
REINFORCEMENT:White PVC helix
TUBE:Smooth white PVC
TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
SUPER-200	2	2.39	29	70	7.00	100'	0.75	---

Standard Length: 100'
Product Info: Our warranty does not cover damage caused by rodents or any insect. Not for underground use in areas infested by termites.
Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature
Recommended Couplings: SCH40

RUBBER WATER S&D

APPLICATION:A heavy duty wire reinforced rubber suction hose for construction, quarries and general use.
COVER:Black smooth abrasion and weather resistant synthetic rubber. REINFORCEMENT:High tensile wire helix embedded between layers of textile cords. TUBE:Smooth black synthetic rubber.
TEMPERATURE:-30C to +80C(-22F to +180F)

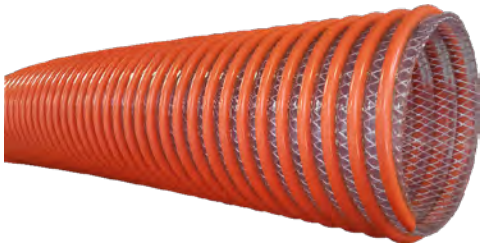
PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
WSB-125	1-1/4	1.65	29	150	4.00	100	0.77	---
*WSB-150	1-1/2	1.93	29	150	4.00	100	1.00	---
*WSB-200	2	2.48	29	150	5.00	100	1.37	---
*WSB-300	3	3.50	29	150	10.00	100	2.23	---
*WSB-400	4	4.64	29	150	14.00	100	3.73	---

Standard Length: 3/4" to 4" - 50'/100' -- 5" and 6" - 20'/100' -- 8" - 20'/60' -- 10" - 40' -- 12" - 20'
Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. Cam and groove,
combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are
derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working
pressure of the lowest rated component in the assembly.

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

TEXTILE REINFORCED S&D



APPLICATION:GOOD FOR BOTH SUCTION AND DISCHARGE APPLICATIONS, THIS HEAVY DUTY HOSE CAN BE USED FOR RENTAL/CONSTRUCTION PUMPING AS WELL AS FISH SUCTION HOSE.
COVER:Clear abrasion and weather resistant PVC. REINFORCEMENT:Orange PVC helix with high tensile synthetic textile yarn. TUBE:Smooth clear PVC.
TEMPERATURE:-23C to +65C(-10F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST
*RSPVC -200	2	2.59	29	110	4.00	100	0.65	----
*RSPVC-300	3	3.71	29	100	6.00	100	1.12	---
*RSPVC-400	4	4.78	29	80	7.00	100	1.74	---
*RSPVC-600	6	7.17	28	70	10.50	100	3.87	---

Standard Length: 100'
Safety Info: Reduce pressures by 50% at maximum working temperature
Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

CRIMPLOK FERRULES PLATED

HOSE ACCESSORIES

CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CFT-08106T-SP	3/4	FLPS075112	1.1875"	2.14"	0.04	---
CFT-08107T-SP	3/4	FLPS075114	1.2188"	2.14"	0.04	---
CFT-08108T-SP	3/4	FLPS075116	1.2500"	2.14"	0.04	---
CFT-08109T-SP	3/4	FLPS075118	1.2812	2.14"	0.04	---

Project Information: For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - HD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-05101S-SP	3/4	FPS050104S	1.0625"	1.41"	0.06	---

Project Information: For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP) I.D Tolerance = +/-0.012

CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-08105-SP	3/4	FPS075120	1.3125"	2.14"	0.06	---

Project Information: For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CFT-10114T-SP	1	FLPS100128	1.4375"	2.29"	0.04	---
CFT-10115T-SP	1	FLPS100130	1.4687"	2.29"	0.04	---
CFT-10117T-SP	1	FLPS100134	1.5000"	2.29"	0.04	---
CFT-10118T-SP	1	FLPS100136	1.5312"	2.29"	0.04	---

Project Information: For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-10109-SP	1	FPS100136	1.5625"	2.29"	0.06	---
CF-10110-SP	1	FPS100140	1.6250"	2.29"	0.06	---
CF-10111-SP	1	FPS100144	1.6875"	2.29"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 1-1/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-13113-SP	1-1/4	FPS125152	1.8125"	2.32"	0.06	---
CF-13114-SP	1-1/4	FPS125156	1.8750"	2.32"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES PLATED

HOSE ACCESSORIES

CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-15115-SP	1-1/2	FPS150160	1.9375"	2.36"	0.06	---
CF-15201-SP	1-1/2	FPS150204	2.0625"	2.36"	0.06	---
CF-15202-SP	1-1/2	FPS150208	2.1250"	2.36"	0.06	---
CF-15203-SP	1-1/2	FPS150212	2.1875"	2.36"	0.06	---
CF-15205-SP	1-1/2	FPS150220	2.3125	2.36"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-15202L-SP	1-1/2	FPS150208L	2.1250"	2.91	0.06	---

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-20208-SP	2	FPS200232	2.5000"	2.79"	0.06	---
CF-20209-SP	2	FPS200236	2.5625"	2.79"	0.06	---
CF-20210-SP	2	FPS200240	2.6250"	2.79"	0.06	---
CF-20211-SP	2	FPS200244	2.6875"	2.79"	0.06	---
CF-20212-SP	2	FPS200248	2.7500"	2.79"	0.06	---
CF-20213-SP	2	FPS200252	2.8125"	2.79"	0.06	---
CF-20214-SP	2	FPS200256	2.8750"	2.79"	0.06	---
CF-20215-SP	2	FPS200260	2.9375"	2.79"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-20209L-SP	2	FPS200236L	2.5625"	3.41"	0.06	---
CF-20211L-SP	2	FPS200244L	2.6875"	3.41"	0.06	---
CF-20212L-SP	2	FPS200248L	2.7500"	3.41"	0.06	---
CF-20213L-SP	2	FPS200252L	2.8125"	3.41"	0.06	---

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES PLATED
HOSE ACCESSORIES

CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-25303-SP	2-1/2	FPS250312	3.1875"	3.11"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-25303L-SP	2-1/2	FPS250312L	3.1875"	3.88"	0.06	---

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-30309-SP	3	FPS300336	3.5625"	3.94"	0.09	---
CF-30310-SP	3	FPS300340	3.6250"	3.94"	0.09	---
CF-30311-SP	3	FPS300344	3.6875"	3.94"	0.09	---
CF-30312-SP	3	FPS300348	3.7500"	3.94"	0.09	---
CF-30313-SP	3	FPS300352	3.8125"	3.94"	0.09	---
CF-30314-SP	3	FPS300356	3.8750"	3.94"	0.09	---
CF-30315-SP	3	FPS300360	3.9375"	3.94"	0.09	---
CF-30400-SP	3	FPS300400	4.000"	3.94"	0.09	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-30310L-SP	3	FPS300340L	3.6250"	4.36"	0.09	---
CF-30311L-SP	3	FPS300344L	3.6875"	4.36"	0.09	---
CF-30312L-SP	3	FPS300348L	3.7500"	4.36"	0.09	---
CF-30313L-SP	3	FPS300352L	3.8125"	4.36"	0.09	---
CF-30314L-SP	3	FPS300356L	3.8750"	4.36"	0.09	---
CF-30315L-SP	3	FPS300360L	3.9375"	4.36"	0.09	---
CF-30400L-SP	3	FPS300400L	4.000"	4.36"	0.09	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES PLATED

HOSE ACCESSORIES

CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-40409-SP	4	FPS400436	4.5625"	4.19"	0.09	---
CF-40410-SP	4	FPS400440	4.6250"	4.19"	0.09	---
CF-40411-SP	4	FPS400444	4.6875"	4.19"	0.09	---
CF-40412-SP	4	FPS400448	4.7500"	4.19"	0.09	---
CF-40413-SP	4	FPS400452	4.8125"	4.19"	0.09	---
CF-40414-SP	4	FPS400456	4.8750"	4.19"	0.09	---
CF-40415-SP	4	FPS400460	4.9375"	4.19"	0.09	---
CF-40500-SP	4	FPS400500	5.000"	4.19"	0.09	---
CF-40501-SP	4	FPS400504	5.0625"	4.19"	0.09	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-40410L-SP	4	FPS400440L	4.6250"	5.20"	0.09	---
CF-40411L-SP	4	FPS400444L	4.6875"	5.20"	0.09	---
CF-40412L-SP	4	FPS400448L	4.7500"	5.20"	0.09	---
CF-40413L-SP	4	FPS400452L	4.8125"	5.20"	0.09	---
CF-40414L-SP	4	FPS400456L	4.8750"	5.20"	0.09	---
CF-40415L-SP	4	FPS400460L	4.9375"	5.20"	0.09	---
CF-40500L-SP	4	FPS400500L	5.000"	5.20"	0.09	---
CF-40501L-SP	4	FPS400504L	5.0625"	5.20"	0.09	---

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 6" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-60610-SP	6	FPS600640	6.6250"	5.67"	0.12	---
CF-60612-SP	6	FPS600648	6.7500"	5.67"	0.12	---
CF-60614-SP	6	FPS600656	6.8750"	5.67"	0.12	---
CF-60702-SP	6	FPS600708	7.1250"	5.67"	0.12	---
CF-60704-SP	6	FPS600716	7.2500"	5.67"	0.12	---

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS

HOSE ACCESSORIES

CRIMPLOK FERRULES STAINLESS 304 FOR 1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-05101-SS304	1/2	FSS050104	1.0625"	2.14"	0.06	---
CF-05102-SS304	1/2	FSS050108	1.1250"	2.14"	0.06	---

Project Information: For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-08105-SS304	3/4	FSS075120	1.3125"	2.14"	0.06	---
CF-08106-SS304	3/4	FSS075124	1.3750"	2.14"	0.06	---
CF-08108-SS304	3/4	FSS075132	1.5000"	2.14"	0.06	---

Project Information: For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CFT-08104T-SS304	3/4	FLSS075108	1.1250"	2.14"	0.04	---
CFT-08106T-SS304	3/4	FLSS075112	1.1875"	2.14"	0.04	---
CFT-08107T-SS304	3/4	FLSS075114	1.2188"	2.14"	0.04	---
CFT-08108T-SS304	3/4	FLSS075116	1.2500"	2.14"	0.04	---
CFT-08109T-SS304	3/4	FLSS075118	1.2812"	2.14"	0.04	---

Project Information: For use with CRIMPLOK Universal crimp fittings (HE-XXXCR-SP) Ferrule thickness is .040"

CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-10108-SS304	1	FSS100132	1.5000"	2.29"	0.06	---
CF-10109-SS304	1	FSS100136	1.5625"	2.29"	0.06	---
CF-10110-SS304	1	FSS100140	1.6250"	2.29"	0.06	---
CF-10111-SS304	1	FSS100144	1.6875"	2.29"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CFT-10117T-SS304	1	FLSS100134	1.5312"	2.29"	0.04	---

Project Information: For use with CRIMPLOK Universal crimp fittings (HE-XXXCR-SP) Ferrule thickness is .040"

CRIMPLOK FERRULES STAINLESS

HOSE ACCESSORIES

CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-13114-SS304	1-1/4	FSS125156	1.8750"	2.32"	0.06	---
CF-13115-SS304	1-1/4	FSS125160	1.9375"	2.32"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-15115-SS304	1-1/2	FSS150160	1.9375"	2.36"	0.06	---
CF-15200-SS304	1-1/2	FSS150200	2.000"	2.36"	0.06	---
CF-15201-SS304	1-1/2	FSS150204	2.0625"	2.36"	0.06	---
CF-15202-SS304	1-1/2	FSS150208	2.1250"	2.36"	0.06	---
CF-15203-SS304	1-1/2	FSS150212	2.1875"	2.36"	0.06	---
CF-15204-SS304	1-1/2	FSS150216	2.2500"	2.36"	0.06	---
CF-15205-SS304	1-1/2	FSS150220	2.3125"	2.36"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-20208-SS304	2	FSS200232	2.5000"	2.79"	0.06	---
CF-20209-SS304	2	FSS200236	2.5625"	2.79"	0.06	---
CF-20210-SS304	2	FSS200240	2.6250"	2.79"	0.06	---
CF-20211-SS304	2	FSS200244	2.6875"	2.79"	0.06	---
CF-20212-SS304	2	FSS200248	2.7500"	2.79"	0.06	---
CF-20213-SS304	2	FSS200252	2.8125"	2.79"	0.06	---
CF-20214-SS304	2	FSS200256	2.8750"	2.79"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-30309-SS304	3	FSS300336	3.5625"	3.94"	0.10	---
CF-30310-SS304	3	FSS300340	3.6250"	3.94"	0.10	---
CF-30311-SS304	3	FSS300344	3.6875"	3.94"	0.10	---
CF-30312-SS304	3	FSS300348	3.7500"	3.94"	0.10	---
CF-30313-SS304	3	FSS300352	3.8125"	3.94"	0.10	---
CF-30314-SS304	3	FSS300356	3.8750"	3.94"	0.10	---
CF-30315-SS304	3	FSS300360	3.9375"	3.94"	0.10	---
CF-30400-SS304	3	FSS300400	4.000"	3.94"	0.10	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM
HOSE ACCESSORIES

CRIMPLOK FERRULES STAINLESS 304 FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-40410-SS304	4	FSS400440	4.6250"	4.19"	0.10	---
CF-40411-SS304	4	FSS400444	4.6875"	4.19"	0.10	---
CF-40412-SS304	4	FSS400448	4.7500"	4.19"	0.10	---
CF-40413-SS304	4	FSS400452	4.8125"	4.19"	0.10	---
CF-40414-SS304	4	FSS400456	4.8750"	4.19"	0.10	---
CF-40415-SS304	4	FSS400500	5.000"	4.19"	0.10	---

Project Information: For use with crimp cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-20209-A	2	SAL200236	2.5625"	2.79"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-20210-A	2	SAL200240	2.6250"	2.79"	0.12	---
CSL-20211-A	2	SAL200244	2.6875"	2.79"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-30310-A	3	SAL300340	3.6250"	3.94"	0.12	---
CSL-30313-A	3	SAL300352	3.8125"	3.94"	0.12	---
CSL-30314-A	3	SAL300356	3.8750"	3.94"	0.12	---
CSL-30315-A	3	SAL300360	3.9375"	3.94"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-40411-A	4	SAL400444	4.6875"	4.19"	0.12	---
CSL-40412-A	4	SAL400448	4.7500"	4.19"	0.12	---
CSL-40413-A	4	SAL400452	4.8125"	4.19"	0.12	---
CSL-40414-A	4	SAL400456	4.8750"	4.19"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED

HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-08106-SP	3/4	SPS075124	1.3750"	2.14"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 3/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-05100S-SP	1/2	SPS050100S	1.0000"	0.91"	0.06	---
CSL-08102S-SP	3/4	SPS075108S	1.1250"	1.10"	0.06	---
CSL-08105S-SP	3/4	SPS075120S	1.3125"	1.10"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-10107-SP	1	SPS100128	1.4375"	2.29"	0.06	---
CSL-10108-SP	1	SPS100132	1.5000"	2.29"	0.06	---
CSL-10109-SP	1	SPS100136	1.5625"	2.29"	0.06	---
CSL-10110-SP	1	SPS100140	1.6250"	2.29"	0.06	---
CSL-10111-SP	1	SPS100144	1.6875"	2.29"	0.06	---
CSL-10112-SP	1	SPS100148	1.7500"	2.29"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-10107S-SP	1	SPS100128S	1.4375"	2.26"	0.06	---
CSL-10108S-SP	1	SPS100132S	1.5000"	2.26"	0.06	---
CSL-10109S-SP	1	SPS100136S	1.5625"	2.26"	0.06	---
CSL-10111S-SP	1	SPS100144S	1.6875"	2.26"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1-1/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-13113S-SP	1-1/4	SPS125152S	1.8125"	1.26"	0.06	---
CSL-13114S-SP	1-1/4	SPS125156S	1.8750"	1.26"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED
HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-15112-SP	1-1/2	SPS150148	1.7500"	2.36"	0.06	---
CSL-15115-SP	1-1/2	SPS150160	1.9375"	2.36"	0.06	---
CSL-15200-SP	1-1/2	SPS150200	2.0000"	2.36"	0.06	---
CSL-15201-SP	1-1/2	SPS150204	2.0625"	2.36"	0.06	---
CSL-15202-SP	1-1/2	SPS150208	2.1250"	2.36"	0.06	---
CSL-15203-SP	1-1/2	SPS150212	2.1875"	2.36"	0.06	---
CSL-15204-SP	1-1/2	SPS150216	2.2500"	2.36"	0.06	---
CSL-15205-SP	1-1/2	SPS150220	2.3125"	2.36"	0.06	---
CSL-15206-SP	1-1/2	SPS150224	2.3750"	2.36"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1-1/2" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-15202S-SP	1-1/2	SPS150208S	2.1250"	1.46"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-20204-SP	2	SPS200216	2.2500"	2.79"	0.06	---
CSL-20206-SP	2	SPS200224	2.3750"	2.79"	0.06	---
CSL-20207-SP	2	SPS200228	2.4375"	2.79"	0.06	---
CSL-20208-SP	2	SPS200232	2.5000"	2.79"	0.06	---
CSL-20209-SP	2	SPS200236	2.5625"	2.79"	0.06	---
CSL-20210-SP	2	SPS200240	2.6250"	2.79"	0.06	---
CSL-20211-SP	2	SPS200244	2.6875"	2.79"	0.06	---
CSL-20212-SP	2	SPS200248	2.7500"	2.79"	0.06	---
CSL-20213-SP	2	SPS200252	2.8125"	2.79"	0.06	---
CSL-20214-SP	2	SPS200256	2.8750"	2.79"	0.06	---
CSL-20215-SP	2	SPS200260	2.9375"	2.79"	0.06	---
CSL-20300-SP	2	SPS200300	3.0000"	2.79"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-20206S-SP	2	SPS200224S	2.3750"	1.81"	0.06	---
CSL-20207S-SP	2	SPS200228S	2.4375"	1.81"	0.06	---
CSL-20209S-SP	2	SPS200236S	2.5625"	1.81"	0.06	---
CSL-20210S-SP	2	SPS200240S	2.6250"	1.81"	0.06	---
CSL-20211S-SP	2	SPS200244S	2.6875"	1.81"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED

HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 2-1/2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-25302-SP	2-1/2	SPS250308	3.1250"	3.11"	0.06	---
CSL-25306-SP	2-1/2	SPS250324	3.3750"	3.11"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-30304-SP	3	SPS300316	3.2500"	3.94"	0.09	---
CSL-30306-SP	3	SPS300324	3.3750"	3.94"	0.09	---
CSL-30307-SP	3	SPS300328	3.4375"	3.94"	0.09	---
CSL-30308-SP	3	SPS300332	3.5000"	3.94"	0.09	---
CSL-30309-SP	3	SPS300336	3.5625"	3.94"	0.09	---
CSL-30310-SP	3	SPS300340	3.6250"	3.94"	0.09	---
CSL-30311-SP	3	SPS300344	3.6875"	3.94"	0.09	---
CSL-30312-SP	3	SPS300348	3.7500"	3.94"	0.09	---
CSL-30313-SP	3	SPS300352	3.8125"	3.94"	0.09	---
CSL-30314-SP	3	SPS300356	3.8750	3.94"	0.09	---
CSL-30400-SP	3	SPS300400	4.000"	3.94"	0.09	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-30306S-SP	3	SPS300324S	3.3750"	2.44"	0.09	---
CSL-30308S-SP	3	SPS300332S	3.5000"	2.44"	0.09	---
CSL-30309S-SP	3	SPS300336S	3.5625"	2.44"	0.09	---
CSL-30310S-SP	3	SPS300340S	3.6250"	2.44"	0.09	---
CSL-30311S-SP	3	SPS300344S	3.6875"	2.44"	0.09	---
CSL-30312S-SP	3	SPS300348S	3.7500"	2.44"	0.09	---
CSL-30313S-SP	3	SPS300352S	3.8125"	2.44"	0.09	---
CSL-30314S-SP	3	SPS300356S	3.8750"	2.44"	0.09	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED
HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-40406-SP	4	SPS400424	4.3750"	4.19"	0.09	---
CSL-40408-SP	4	SPS400432	4.5000"	4.19"	0.09	---
CSL-40409-SP	4	SPS400436	4.5625"	4.19"	0.09	---
CSL-40410-SP	4	SPS400440	4.6250"	4.19"	0.09	---
CSL-40411-SP	4	SPS400444	4.6875"	4.19"	0.09	---
CSL-40412-SP	4	SPS400448	4.7500"	4.19"	0.09	---
CSL-40413-SP	4	SPS400452	4.8125"	4.19"	0.09	---
CSL-40414-SP	4	SPS400456	4.8750"	4.19"	0.09	---
CSL-40415-SP	4	SPS400460	4.9375"	4.19"	0.09	---
CSL-40500-SP	4	SPS400500	5.0000"	4.19"	0.09	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-40410S-SP	4	SPS400440S	4.6250"	3.31"	0.09	---
CSL-40411S-SP	4	SPS400444S	4.6875"	3.31"	0.09	---
CSL-40412S-SP	4	SPS400448S	4.7500"	3.31"	0.09	---
CSL-40413S-SP	4	SPS400452S	4.8125"	3.31"	0.09	---
CSL-40414S-SP	4	SPS400456S	4.9375"	3.31"	0.09	---
CSL-40500S-SP	4	SPS400500S	5.0000"	3.31"	0.09	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 6" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-60604-SP	6	SPS600616	6.2500"	5.67"	0.12	---
CSL-60606-SP	6	SPS600624	6.3750"	5.67"	0.12	---
CSL-60608-SP	6	SPS600632	6.5000"	5.67"	0.12	---
CSL-60610-SP	6	SPS600640	6.6250"	5.67"	0.12	---
CSL-60612-SP	6	SPS600648	6.7500"	5.67"	0.12	---
CSL-60614-SP	6	SPS600656	6.8750"	5.67"	0.12	---
CSL-60700-SP	6	SPS600700	7.0000"	5.67"	0.12	---
CSL-60702-SP	6	SPS600708	7.1250"	5.67"	0.12	---
CSL-60704-SP	6	SPS600716	7.2500"	5.67"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 8" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-80812-SP	8	SPS800848	8.7500"	6.50"	0.12	---
CSL-80900-SP	8	SPS800900	9.0000"	6.50"	0.12	---
CSL-80904-SP	8	SPS800916	9.2500"	6.50"	0.12	---
CSL-80908-SP	8	SPS800932	9.5000"	6.50"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 10" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-100108-SP	10	SPS100132	10.5000"	7.25"	0.12	---
CSL-100114-SP	10	SPS100156	10.8750"	7.25"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1/2" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-05100S-SS304	1/2	SSS050100S	1.000"	0.91"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-08104-SS304	3/4	SSS075116	1.2500"	2.14"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-08104S-SS304	3/4	SSS075116S	1.2500"	1.10"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-10108-SS304	1	SSS100132	1.5000"	2.29"	0.06	---
CSL-10110-SS304	1	SSS100140	1.6250"	2.29"	0.06	---
CSL-10112-SS304	1	SSS100148	1.7500"	2.29"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-10109S-SS304	1	SSS100136S	1.5625"	1.26"	0.06	---
CSL-10110S-SS304	1	SSS100140S	1.6250"	1.26"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS
HOSE ACCESSORIES

CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-13114-SS304	1-1/4	SSS125156	1.8750"	2.32"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-13113S-SS304	1-1/4	SSS125152S	1.8125"	1.26"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-15201-SS304	1-1/2	SSS150204	2.0625"	2.36"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-20206-SS304	2	SSS200224	2.3750"	2.79"	0.06	---
CSL-20207-SS304	2	SSS200228	2.4375"	2.79"	0.06	---
CSL-20208-SS304	2	SSS200232	2.5000"	2.79"	0.06	---
CSL-20209-SS304	2	SSS200236	2.5625"	2.79"	0.06	---
CSL-20210-SS304	2	SSS200240	2.6250"	2.79"	0.06	---
CSL-20211-SS304	2	SSS200244	2.6875"	2.79"	0.06	---
CSL-20212-SS304	2	SSS200248	2.7500"	2.79"	0.06	---
CSL-20214-SS304	2	SSS200256	2.8750"	2.79"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-30309-SS304	3	SSS300336	3.5625"	3.94"	0.10	---
CSL-30310-SS304	3	SSS300340	3.6250"	3.94"	0.10	---
CSL-30311-SS304	3	SSS300344	3.6875"	3.94"	0.10	---
CSL-30312-SS304	3	SSS300348	3.7500"	3.94"	0.10	---
CSL-30313-SS304	3	SSS300352	3.8125"	3.94"	0.10	---
CSL-30314-SS304	3	SSS300356	3.8750"	3.94"	0.10	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

HOSE CLAMPS

WORM GEAR

QUICK RELEASE

MEGA & MAXI T-BOLT CLAMPS

SPRING LOADED T-BOLT

CONSTANT TORQUE & V-BAND

DOUBLE BOLT CLAMP

SPIRAL CLAMP
MAXI CLAMP

MUFFLER & EXHAUST

1 EAR, 2 EAR, GAPLESS

HAMMERLOCK & PUNCH-LOK

TOOLS

NON-PERFORATED OR LINED BAND MARINE CLAMPS

RUBBER LINED

HOSE FERRULES

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

WORM GEAR CLAMPS

MINIATURE CLAMPS - 5/16" BAND

300 Series
- 1/4" Hex Slotted Carbon Steel Screw
- 5/16" Wide 301 Stainless Steel Band
- Carbon Steel Housing

Applications: For marine, agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

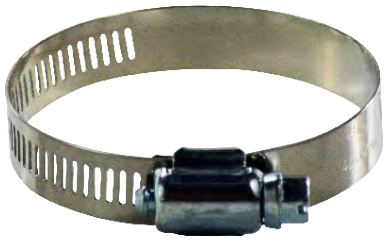
Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

Stainless Steel band with Carbon Steel Housing and Screw

5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	LIST PRICE
	MIN.	MAX.		
3000004	7/32"	5/8"	200/2400	---
300005	7/16"	11/16"	200/2400	---
3000006	5/16"	7/8"	200/2400	---
3000008	7/16"	1"	200/1200	---
300010	1/2"	1-1/16"	200/1200	---
300012	9/16"	1-1/4"	200/1200	---
300016	11/16"	1-1/2"	200/1200	---
3000020	7/8"	1-3/4"	200/1200	---

1/2" BAND CLAMPS



600 Series
- 5/16" Hex Slotted Carbon Steel Screw
- 1/2" Wide 201 Stainless Steel Band
- Carbon Steel Housing

Applications: A general purpose clamp for automobiles, plumbing, home and garden general clamping applications, with anti-corrosive properties varying with the number of components made from stainless steel.

- No PSI Rating
- 50lb/ Inch Torque Rating Die Set Function

Stainless Steel band with Carbon Steel Housing and Screw

1/2" band, 5/16" screw

PART #	#	DIA. RANGE		BAG/CASE	LIST PRICE
		MIN.	MAX.		
600006	6	3/8"	7/8"	100/600	---
600008	8	7/16"	1"	100/600	---
600010	10	9/16"	1-1/16"	100/600	---
600012	12	9/16"	1-1/4"	100/600	---
600016	16	11/16"	1-1/2"	100/600	---
600020	20	3/4"	1-3/4"	100/300	---
600024	24	1-1/16"	2"	100/300	---
600028	28	1-5/16"	2-1/4"	100/300	---
600032	32	1-9/16"	2-1/2"	100/300	---
600036	36	1-13/16"	2-3/4"	50/200	---
600040	40	2-1/16"	3"	50/200	---
600044	44	2-5/16"	3-1/4"	50/200	---
600048	48	2-9/16"	3-1/2"	50/200	---
600052	52	2-13/16"	3-3/4"	25/100	---
600056	56	3-1/16"	4"	25/100	---
600060	60	3-5/16"	4-1/4"	25/100	---
600064	64	2-1/2"	4-1/2"	25/100	---
600072	72	3"	5"	25/100	---
600080	80	3-1/2"	5-1/2"	10/100	---
600088	88	4"	6"	10/100	---
600096	96	4-1/2"	6-1/2"	10/100	---
600104	104	5"	7"	10/100	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

325 & 611 WORM GEAR CLAMPS
HOSE CLAMPS

MINIATURE CLAMPS - 5/16" BAND

Stainless Steel band and housing with Carbon Steel Screw

5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	LIST PRICE
	MIN.	MAX.		
325004	7/32"	5/8"	200/2400	---
325005	7/16"	11/16"	200/2400	---
325006	5/16"	7/8"	200/2400	---
325008	7/16"	1"	200/1200	---
325010	1/2"	1-1/16"	200/1200	---
325012	9/16"	1-1/4"	200/1200	---
325016	11/16"	1-1/2"	200/1200	---
325020	7/8"	1-3/4"	200/1200	---

325 Series
- 1/4" Hex Slotted Carbon Steel Screw
- 5/16" Wide 301 Stainless Steel Band
- 301 Stainless Steel Housing

Applications: For agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

1/2" BAND CLAMPS

Stainless Steel band and housing with Carbon Steel Screw

1/2" band, 5/16" screw

PART #	#	DIA. RANGE		BAG/CASE	LIST PRICE
		MIN.	MAX.		
611006	6	3/8"	7/8"	100/600	---
611008	8	7/16"	1"	100/600	---
611010	10	9/16"	1-1/16"	100/600	---
611012	12	9/16"	1-1/4"	100/600	---
611016	16	11/16"	1-1/2"	100/600	---
611020	20	3/4"	1-3/4"	100/300	---
611024	24	1-1/16"	2"	100/300	---
611028	28	1-5/16"	2-1/4"	100/300	---
611032	32	1-9/16"	2-1/2"	100/300	---
611036	36	1-13/16"	2-3/4"	50/200	---
611040	40	2-1/16"	3"	50/200	---
611044	44	2-5/16"	3-1/4"	50/200	---
611048	48	2-9/16"	3-1/2"	50/200	---
611052	52	2-13/16"	3-3/4"	25/100	---
611056	56	3-1/16"	4"	25/100	---
611060	60	3-5/16"	4-1/4"	25/100	---
611064	64	2-1/2"	4-1/2"	25/100	---
611072	72	3"	5"	25/100	---
611080	80	3-1/2"	5-1/2"	10/100	---
611088	88	4"	6"	10/100	---
611096	96	4-1/2"	6-1/2"	10/100	---
611104	104	5"	7"	10/100	---
611116	116	5-3/4"	7-3/4"	100/100	---
611128	128	6-1/2"	8-1/2"	100/100	---
611152	152	2"	10"	100/100	---
611164	164	1-3/4"	10-3/4"	100/100	---
611176	176	9-1/4"	11-1/4"	100/100	---
611188	188	2-1/16"	12-1/4"	100/100	---
611200	200	11"	13"	100/100	---
611212	212	11-3/4"	13-3/4"	100/100	---
611224	224	12-1/2"	14-1/2"	100/100	---
611248	248	10-3/4"	16"	100/100	---
611270	270	15-3/8"	17-3/8"	100/100	---
611312	312	18"	20"	100/100	---
611332	332	19-1/8"	21-1/4"	100/100	---
611390	390	22-7/8"	24-7/8"	100/100	---

611 Series
- 5/16" Hex Slotted Carbon Steel Screw
- 1/2" Wide 201 Stainless Steel Band
- 301 Stainless Steel Housing

Applications: The perfect clamp for automobiles, plumbing, home and garden general clamping applications, with anti-corrosive properties varying with the number of components made from stainless steel.

- No PSI Rating
- 50lb/ Inch Torque Rating Die Set Function

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

350 & 620 WORM GEAR CLAMPS

HOSE CLAMPS

MINIATURE CLAMPS - 5/16" BAND

350 Series
- 1/4" Hex Slotted 410 Stainless Steel Screw
- 5/16" Wide 301 Stainless Steel Band
- 301 stainless Steel Housing
- 6mm thick

All Stainless Steel
5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	LIST PRICE
	MIN.	MAX.		
350004	7/32"	5/8"	200/2400	---
350005	7/16"	11/16"	200/2400	---
350006	5/16"	7/8"	200/2400	---
350008	7/16"	1"	200/1200	---
350010	1/2"	1-1/16"	200/1200	---
350012	9/16"	1-1/4"	200/1200	---
350016	11/16"	1-1/2"	200/1200	---
350020	7/8"	1-3/4"	200/1200	---

Applications: For agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

1/2" WIDE BAND CLAMPS (12.70MM)

620 Series
- 5/16" Hex Slotted 305 Stainless Steel Screw
- 1/2" Wide 301 Stainless Steel Band
- 301 Stainless Steel Housing

- 60mm Thickness
- Use for underground and other high corrosive applications.
- For a sure grip application.
- Especially suited to industrial applications

All Stainless Steel
1/2" band, 5/16" screw

PART #	#	DIA. RANGE		BOX/CASE	LIST PRICE
		MIN.	MAX.		
620006	6	3/8"	7/8"	100/600	---
620008	8	7/16"	1"	100/600	---
620010	10	9/16"	1-1/16"	100/600	---
620012	12	9/16"	1-1/4"	100/600	---
620016	16	11/16"	1-1/2"	100/600	---
620020	20	3/4"	1-3/4"	100/300	---
620024	24	1-1/16"	2"	100/300	---
620028	28	1-5/16"	2-1/4"	100/300	---
620032	32	1-9/16"	2-1/2"	100/300	---
620036	36	1-13/16"	2-3/4"	50/200	---
620040	40	2-1/16"	3"	50/200	---
620044	44	2-5/16"	3-1/4"	50/200	---
620048	48	2-9/16"	3-1/2"	50/200	---
620052	52	2-13/16"	3-3/4"	25/100	---
620056	56	3-1/16"	4"	25/100	---
620060	60	3-5/16"	4-1/4"	25/100	---
620064	64	2-1/2"	4-1/2"	25/100	---
620072	72	3"	5"	25/100	---
620080	80	3-1/2"	5-1/2"	10/100	---
620088	88	4"	6"	10/100	---
620096	96	4-1/2"	6-1/2"	10/100	---
620104	104	5"	7"	10/100	---
620116	116	5-3/4"	7-3/4"	100/100	---
620128	128	6-1/2"	8-1/2"	100/100	---
620152	152	2"	10"	100/100	---
620164	164	1-3/4"	10-3/4"	100/100	---
620176	176	9-1/4"	11-1/4"	100/100	---
620188	188	9.9"	12-1/4"	100/100	---
620200	200	11"	13"	100/100	---
620212	212	11-3/4"	13-3/4"	100/100	---
620224	224	12-1/2"	14-1/2"	100/100	---
620248	248	10-3/4"	16"	100/100	---
620270	270	15-3/8"	17-3/8"	100/100	---
620312	312	18"	20"	100/100	---
620332	332	19-1/8"	21-1/4"	100/100	---
620390	390	22-7/8"	24-7/8"	100/100	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

#316 MARINE WORM GEAR CLAMPS

HOSE CLAMPS

MINIATURE CLAMPS - 5/16" BAND

All #316 SS for Marine Environments

5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	LIST PRICE
	MIN.	MAX.		
350004SS	7/32"	5/8"	200/2400	---
350005SS	7/16"	11/16"	200/2400	---
350006SS	5/16"	7/8"	200/2400	---
350008SS	7/16"	1"	200/1200	---
350010SS	1/2"	1-1/16"	200/1200	---
350012SS	9/16"	1-1/4"	200/1200	---
350016SS	11/16"	1-1/2"	200/1200	---
350020SS	7/8"	1-3/4"	200/1200	---

350SS Series

- 1/4" Hex Slotted 316 Stainless Steel Screw
- 316 Stainless Steel Band
- 8mm wide
- 60 mm thick
- 316 stainless Steel Housing

Applications: For marine, agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

1/2" WIDE BAND CLAMPS (12.70MM)

All #316 SS for Marine Environments

1/2" band, 5/16" screw

ALL 316SS PART #	#	DIA. RANGE		BOX/CASE	LIST PRICE
		MIN.	MAX.		
620006SS	6	3/8"	7/8"	100/600	---
620008SS	8	7/16"	1"	100/600	---
620010SS	10	9/16"	1-1/16"	100/600	---
620012SS	12	9/16"	1-1/4"	100/600	---
620016SS	16	11/16"	1-1/2"	100/600	---
620020SS	20	3/4"	1-3/4"	100/300	---
620024SS	24	1-1/16"	2"	100/300	---
620028SS	28	1-5/16"	2-1/4"	100/300	---
620032SS	32	1-9/16"	2-1/2"	100/300	---
620036SS	36	1-13/16"	2-3/4"	50/200	---
620040SS	40	2-1/16"	3"	50/200	---
620044SS	44	2-5/16"	3-1/4"	50/200	---
620048SS	48	2-9/16"	3-1/2"	50/200	---
620052SS	52	2-13/16"	3-3/4"	25/100	---
620056SS	56	3-1/16"	4"	25/100	---
620060SS	60	3-5/16"	4-1/4"	25/100	---
620064SS	64	2-1/2"	4-1/2"	25/100	---
620072SS	72	3"	5"	25/100	---

620SS Series

- 5/16" Hex Slotted 316 Stainless Steel Screw
- 1/2" Wide 316 Stainless Steel Band
- 316 Stainless Steel Housing

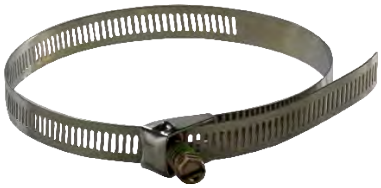
- 60mm Thickness
- Use for marine, underground and other high corrosive applications.

QUICK RELEASE

500/550 SERIES

These clamps feature a unique quick release design between the one piece housing and band allowing for quick and easy installation in restricted or difficult areas.

Applications: Quick release action permits easy installation in applications where clamp must be opened to be applied. Quick release clamps are used extensively in the telecommunications industry on cable enclosures where open air application demands durability.



Open/Close design allows easy installation.

500 Series
- 5/16" Hex Slotted Carbon Steel Screw
- 1/2" 301 Stainless Steel band
- 301 Stainless Steel Housing
- 410 Stainless Steel Bridge

550 Series
- 5/16" Hex Slotted 410 Stainless Steel Screw
- 1/2" 301 Stainless Steel band
- 301 Stainless Steel Housing
- 410 Stainless Steel Bridge

PART #	LIST PRICE	#	DIA. RANGE		PART #	LIST PRICE
			MIN.	MAX.		
500012	---	12	1/2"	1-1/4"	550012	---
500020	---	20	3/4"	1-3/4"	550020	---
500028	---	28	1"	2-1/4"	550028	---
500036	---	36	1"	2-3/4"	550036	---
500048	---	48	1-1/2"	3-1/2"	550048	---
500056	---	56	1"	4"	550056	---
500072	---	72	2"	5"	550072	---
500088	---	88	2-1/16"	6"	550088	---
500104	---	104	1-3/4"	7"	550104	---
500128	---	128	1-3/4"	8-9/16"	550128	---
500152	---	152	2"	10"	550152	---
500188	---	188	2-1/16"	12-5/16"	550188	---
500216	---	216	10-3/16"	14"	550216	---
500248	---	248	10-3/4"	16"	550248	---
500280	---	280	14-1/4"	18"	550280	---
		312	14"	20"	550312	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

T-Bolt Clamps

- All designs meet SAE J1508 specifications.
- .025" Band Thickness
- 3/4" Wide Band
- Band Material: 301 Series Stainless Steel
- Bolt Material: 304 Series Stainless Steel
- Nut Material: 304 Series Stainless Steel
- Nuts are Self-locking
- Torque Rating 75 in/lb

Opens 1/16" above and tightens 1/8" smaller
then nominal I.D. for a total of 3/16" range for clamps sizes 150 through 250. Opens 1/16" above and tightens 7/32" smaller then nominal I.D. for clamps sizes 256 through 750.

Purpose: To provide a quick, yet effective means of clamping a variety of fittings to a wide range of hose. T-Bolts can be applied with a standard 7/16" socket wrench. They provide 3600 sealing surface by using a shoe or formed bridge.

Services: The T-Bolt clamp is a high strength, reliable clamp with numerous applications in both the commercial and industrial markets including hose and duct-work connections for air, oil, water, other types of low pressure fluid lines, engine air intake, exhaust, hose and filters.

ALL STAINLESS STEEL

NOMINAL SIZE	O.D. RANGE		PART#	LIST PRICE
	FROM:	TO:		
1-1/4	1-5/32"	1-15/32"	840131	---
1-1/2	1-3/8"	1-9/16"	840150	---
1-3/4	1-5/8"	1-13/16"	840175	---
1-7/8	1-3/4"	1-15/16"	840188	---
2	1-7/8"	2-1/16"	840200	---
2-1/4	2-1/8"	2-5/16"	840225	---
2-3/8	2-1/4"	2-7/16"	840238	---
2-1/2	2-3/8"	2-9/16"	840250	---
2-9/16	2-11/32"	2-5/8"	840256	---
2-5/8	2-13/32"	2-11/16"	840263	---
2-3/4	2-17/32"	2-13/16"	840275	---
2-7/8	2-21/32"	2-15/16"	840288	---
3	2-25/32"	3-1/16"	840300	---
3-1/8	2-29/32"	3-3/16"	840312	---
3-1/4	3-1/32"	3-5/16"	840325	---
3-1/2	3-9/32"	3-9/16"	840350	---
3-3/4	3-17/32"	3-13/16"	840375	---
3-53/64	3-19/32"	3-7/8"	840382	---
4	3-25/32"	4-1/16"	840400	---
4-1/4	4-1/32"	4-5/16"	840425	---
4-1/2	4-9/32"	4-9/16"	840450	---
4-3/4	4-17/32"	4-13/16"	840475	---
5	4-25/32"	5-1/16"	840500	---
5-1/4	5-1/32"	5-5/16"	840525	---
5-1/2	5-9/32"	5-9/16"	840550	---
5-3/4	5-17/32"	5-13/16"	840575	---
6	5-25/32"	6-1/16"	840600	---
6-1/4	6-1/32"	6-5/16"	840625	---
6-1/2	6-9/32"	6-9/16"	840650	---
6-3/4	6-17/32"	6-13/16"	840675	---
7	6-25/32"	7-1/16"	840700	---
7-1/2	7-9/32"	7-9/16"	840750	---
8	7-25/32"	8-1/16"	840800	---
8-1/4	8-9/32"	8-9/16"	840850	---
8-7/8	8-21/32"	8-15/16"	840888	---
10-7/8	10-21/32"	10-15/16"	8401088	---

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mega clamps

Rugged heavy duty wide band clamps for use in medium duty air and water, general industrial, automotive, food and agricultural applications.

MEGAKLAMP

IMPORT

Megaklamp Series
Clamp sizes for hose O.D. from 17 mm to 252 mm
Yellow zinc plated steel Band/Bridge/Trunnion/Sleeve/Bolt
Band gauge from 0.6 mm to 1.7 mm depending upon clamp size
Band width from 18 mm to 26 mm depending upon clamp size
Bolt size from 5 mm to 10 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	LIST PRICE
MKL-019-SP	17-19	0.67	0.75	1.02	---
MKL-022-SP	20-22	0.79	0.87	1.02	---
MKL-025-SP	23-25	0.87	0.98	1.02	---
MKL-028-SP	26-28	1.02	1.10	1.02	---
MKL-031-SP	29-31	1.14	1.22	1.02	---
MKL-035-SP	32-35	1.26	1.38	1.02	---
MKL-039-SP	36-39	1.42	1.54	1.02	---
MKL-043-SP	40-43	1.57	1.69	0.87	---
MKL-047-SP	44-47	1.73	1.85	0.87	---
MKL-051-SP	48-51	1.89	2.01	0.87	---
MKL-055-SP	52-55	2.05	2.17	0.87	---
MKL-059-SP	56-59	2.20	2.32	0.87	---
MKL-063-SP	60-63	2.36	2.48	0.87	---
MKL-067-SP	64-67	2.52	2.64	0.94	---
MKL-073-SP	68-73	2.68	2.87	0.94	---
MKL-079-SP	74-79	2.91	3.11	0.94	---
MKL-085-SP	80-85	3.15	3.35	0.94	---
MKL-091-SP	86-91	3.39	3.58	0.94	---
MKL-097-SP	92-97	3.62	3.82	0.94	---
MKL-103-SP	98-103	3.86	4.06	0.94	---
MKL-112-SP	104-112	4.09	4.41	0.94	---
MKL-121-SP	113-121	4.45	4.76	0.94	---
MKL-130-SP	122-130	4.80	5.12	0.94	---
MKL-139-SP	131-139	5.16	5.47	1.02	---
MKL-148-SP	140-148	5.51	5.83	1.02	---
MKL-161-SP	149-161	5.87	6.34	1.02	---
MKL-174-SP	162-174	6.38	6.85	1.02	---
MKL-187-SP	175-187	6.89	7.36	1.02	---
MKL-200-SP	188-200	7.40	7.87	1.02	---
MKL-213-SP	201-213	7.91	8.39	1.02	---
MKL-226-SP	214-226	8.43	8.90	1.02	---
MKL-239-SP	227-239	8.94	9.41	1.02	---

M6 MAXI CLAMP LIGHT

IMPORT

M6 Maxiclamp Series
Clamp sizes for hose O.D. from 23 mm to 43 mm
Silver (clear) zinc plated steel Band/Bridge/Trunnion/Sleeve/Bolt
Band gauge from 0.6 mm to 0.8 mm depending upon clamp size
Band width from 18 mm to 20 mm depending upon clamp size
Bolt size from 5 mm to 6 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	LIST PRICE
M6-23	23-25	0.87	1.01	0.71	---
M6-26	26-28	1.02	1.13	0.71	---
M6-29	29-31	1.14	1.25	0.79	---
M6-32	32-35	1.26	1.41	0.79	---
M6-36	36-39	1.42	1.56	0.79	---
M6-40	40-43	1.57	1.72	0.79	---

M6 STAINLESS MAXI CLAMP LIGHT

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	LIST
M6S-23	23-25	0.87	1.01	0.71	---
M6S-26	26-28	1.02	1.13	0.71	---
M6S-29	29-31	1.14	1.25	0.79	---
M6S-32	32-35	1.26	1.41	0.79	---
M6S-36	36-39	1.42	1.56	0.79	---
M6S-40	40-43	1.57	1.72	0.79	---

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HOSE CLAMPS
HOSE CLAMPS

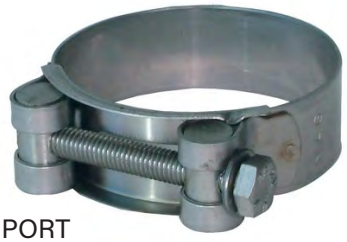
M8 MAXI CLAMP STANDARD

IMPORT

M8 Maxiclamp Series
Clamp sizes for hose O.D. from 44 mm to 130 mm
Silver (clear) zinc plated steel Band/Bridge/Trunnion/Sleeve
8 mm silver zinc plated bolt
Band gauge from 1.2 mm to 1.5 mm depending upon clamp size
Band width from 22 mm to 24 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	LIST PRICE
M8-44	44-47	1.73	1.88	0.87	---
M8-48	48-51	1.89	2.04	0.87	---
M8-52	52-55	2.05	2.17	0.87	---
M8-56	56-59	2.20	2.35	0.87	---
M8-60	60-63	2.36	2.51	0.87	---
M8-64	64-67	2.52	2.67	0.87	---
M8-68	68-73	2.68	2.90	0.94	---
M8-74	74-79	2.91	3.14	0.94	---
M8-80	80-85	3.15	3.38	0.94	---
M8-86	86-91	3.39	3.61	0.94	---
M8-92	92-97	3.62	3.85	0.94	---
M8-98	98-103	3.86	4.08	0.94	---
M8-104	104-112	4.09	4.44	0.94	---
M8-113	113-121	4.45	4.79	0.94	---
M8-122	122-130	4.80	5.15	0.94	---

M8 MAXI CLAMP STANDARD



IMPORT

M8S Maxiclamp Series
Clamp sizes for hose O.D. from 44 mm to 130 mm
301 Stainless steel Band/Bridge/Trunnion/Sleeve
8 mm A2-70 Stainless steel bolt
0.8 mm thick band
Band width from 22 mm to 24 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	LIST PRICE
M8S-44	44-47	1.73	1.88	0.87	---
M8S-48	48-51	1.89	2.04	0.87	---
M8S-52	52-55	2.05	2.17	0.87	---
M8S-56	56-59	2.20	2.35	0.87	---
M8S-60	60-63	2.36	2.51	0.87	---
M8S-64	64-67	2.52	2.67	0.87	---
M8S-68	68-73	2.68	2.90	0.94	---
M8S-74	74-79	2.91	3.14	0.94	---
M8S-80	80-85	3.15	3.38	0.94	---
M8S-86	86-91	3.39	3.61	0.94	---
M8S-92	92-97	3.62	3.85	0.94	---
M8S-98	98-103	3.86	4.08	0.94	---
M8S-104	104-112	4.09	4.44	0.94	---
M8S-113	113-121	4.45	4.79	0.94	---
M8S-122	122-130	4.80	5.15	0.94	---
M8S-131	131-139	5.16	5.50	1.02	---
M8S-140	140-148	5.51	5.86	1.02	---
M8S-149	149-161	5.87	6.37	1.02	---
M8S-162	162-174	6.38	6.88	1.02	---

M10 MAXI CLAMP HEAVY

IMPORT

M10S Maxiclamp Series
Select sizes available
301 Stainless steel Band/Bridge/Trunnion/Sleeve
10 mm A2-70 Stainless steel bolt
1.7 mm thick x 26 mm wide band

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	LIST PRICE
M10-131	131-139	5.16	5.50	1.02	---
M10-140	140-148	5.51	5.86	1.02	---
M10-149	149-161	5.87	6.37	1.02	---
M10-162	162-174	6.38	6.88	1.02	---
M10-175	175-187	6.89	7.39	1.02	---
M10-188	188-200	7.40	7.86	1.02	---
M10-201	201-213	7.91	8.42	1.02	---
M10-214	214-226	8.43	8.90	1.02	---
M10-227	227-239	8.94	9.44	1.02	---
M10-240	240-252	9.45	9.92	1.02	---

SPRING LOADED T-BOLT
HOSE CLAMPS

SPRING LOADED T-BOLT HOSE CLAMP

- Per SAE standard J1508 Type "SLTB"
- .025 Band Thickness
- 3/4 (19mm) band width
- Heavy duty springs
- Band Material: 300 stainless
- T-bolt: Carbon steel w/ zinc plating
- Housing (Bridge): 300 Stainless
- Hex nut: Carbon Steel, Nylon insert
- Torque rating: 150 in-lbs (8.5 mm)

Purpose: To provide constant tension performance to compensate for the expansion and contraction when temperatures fluctuate. Provides high strength and a 360° seal. Tighten with a 7/16" wrench or hex nutdriver.

Services: Designed for use in high vibration and large diameter applications common in heavy trucks, industrial machinery, off road equipment, agricultural irrigation and machinery, for air intake and coolant adapter

PART #	SAE #	MIN - MAX	WGT	BOX QTY	LIST PRICE
844213	40	2.13 - 2.44	0.170	100	---
844225	44	2.25 - 2.56	0.174	100	---
844238	48	2.38 - 2.69	0.179	100	---
844250	52	2.50 - 2.81	0.181	100	---
844263	56	2.63 - 2.94	0.183	100	---
844275	60	2.75 - 3.06	0.185	100	---
844300	68	3 - 3.31	0.187	100	---
844306	70	3.06 - 3.38	0.190	100	---
844313	72	3.13 - 3.44	0.192	100	---
844325	76	3.25 - 3.56	0.194	100	---
844338	80	3.38 - 3.69	0.196	100	---
844350	84	3.50 - 3.81	0.196	100	---
844356	86	3.56 - 3.88	0.196	100	---
844363	88	3.63 - 3.94	0.198	100	---
844375	92	3.75 - 4.06	0.198	100	---
844406	102	4.06 - 4.38	0.203	100	---
844413	104	4.13 - 4.44	0.209	100	---
844425	108	4.25 - 4.56	0.214	100	---
844456	118	4.56 - 4.88	0.216	100	---
844500	132	5 - 5.31	0.218	100	---
844525	140	5.25 - 5.56	0.220	100	---
844600	164	6 - 6.31	0.223	100	---
844625	172	6.25 - 6.56	0.225	100	---

Automatically adjust diameter for hose expansion and contraction due to temperature changes.

Constant Torque Hose Clamps

- All designs meet SAE J1508 specifications type "SLHD"
- .028 Band thickness
- Band material: 304 thickness
- Band width: 9/16" for 45in-lb
  5/8" for 90in-lb
- Band material: 304 stainless
- Housing: 304 stainless steel
- Bridge: 410 stainless steel
- Hex screw: 410 stainless steel

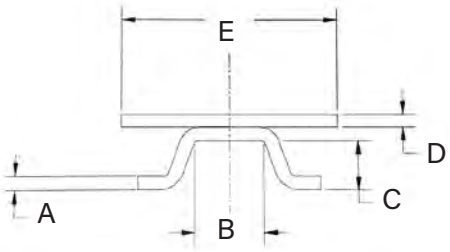
Purpose: To eliminate leaks by automatically incerasing or decreasing the clamps diameter, decreasing the need for retightening. Constant torque clamps have an extended tail on the band to protect soft hose or tube from being cut.

Services: Constant torque clamps are an excellent choice for fluctuating and extreme temperature applications and thermal compensation.

PART #	CLAMPING RANGE	BAND WIDTH	TORQUE	SCREW SIZE	WGT	BOX QTY	LIST PRICE
842010	9/16" - 1 1/16"	9/16"	72 in-lb	5/16"	0.106	100	---
842012	11/16" - 1 1/4"	9/16"	72 in-lb	5/16"	0.108	100	---
842016	13/16" - 1 1/2"	9/16"	72 in-lb	5/16"	0.112	100	---
842020	13/16" - 1 3/4"	9/16"	72 in-lb	5/16"	0.119	100	---
842024	1 1/16" - 2"	9/16"	72 in-lb	5/16"	0.121	100	---
842200	1 1/4" - 2 1/8"	5/8"	130 in-lb High	3/8"	0.207	100	---
842250	1 3/4" - 2 5/8"	5/8"	130 in-lb High	3/8"	0.216	100	---
842300	2 1/4" - 3 1/8"	5/8"	130 in-lb High	3/8"	0.220	100	---
842350	2 3/4" - 3 5/8"	5/8"	130 in-lb High	3/8"	0.225	100	---
842400	3 1/4" - 4 1/8"	5/8"	130 in-lb High	3/8"	0.231	100	---
842450	3 3/4" - 4 5/8"	5/8"	130 in-lb High	3/8"	0.238	100	---
842500	4 1/4" - 5 1/8"	5/8"	130 in-lb High	3/8"	0.256	100	---
842550	4-3/4"-5-5/8"	5/8"	130 in-lb High	3/8"	0.284	100	

V-BAND HOSE CLAMPS

- Band thickness: see chart
- Band width: see chart
- Band material: 300 stainless
- Trunnion: 300 stainless
- 1/4" T-bolt: 300 Ziac plated steel



Purpose: to provide a fast, secure cupling for connecting flanged joints.

Services: V-Band clamps feature high strength and positive sealing integrity for applications including: heavy duty diesel engine exhaust and turbochargers, filter housings, emissions and general industrial applications.

PART#	NOMINAL DIAMETER	V-INSERT SECTIONS			BANDS		WGT	BOX QTY	LIST PRICE
		A	B	C	D	E			
843321	3.21	0.050	0.262	0.141	0.035	0.750	0.525	100	---
843382	3.82	0.077	0.207	0.281	0.040	0.875	0.531	100	---
843388	3.88	0.050	0.400	0.281	0.040	0.875	0.536	100	---
843450	4.50	0.077	0.207	0.281	0.040	0.875	0.547	100	---
843461	4.61	0.050	0.156	0.281	0.035	0.750	0.549	100	---
843475	4.75	0.050	0.400	0.281	0.040	0.875	0.553	100	---
843525	5.25	0.050	0.262	0.141	0.035	0.750	0.567	100	---
843588	5.88	0.050	0.400	0.281	0.040	0.875	0.575	100	---

HOSE CLAMPS
HOSE CLAMPS

DOUBLE BOLT CLAMPS

IMPORT

DBC Series

Rugged, heavy duty two bolt clamps with saddles
Zinc plated ductile iron clamps and saddles
Zinc plated carbon steel bolt and nuts

PART #	SIZE	SIZE RANGE	MAX TORQUE FT LBS	LIST PRICE
DBC-40-DP	1-5/16	1-5/16" - 1-19/32"	20	---
DBC-60-DP	1-7/8	1-7/8" - 2-3/8"	25	---
DBC-76-DP*	2-3/8	2-3/8" - 3-1/16"	25	---
DBC-94-DP*	3-1/2	3-1/2" - 3-11/16"	40	---
DBC-400-DP*	3-1/2	3-1/2" - 4"	40	---
DBC-431-DP	3-13/16	3-13/16" - 4-1/16"	40	---
DBC-463-DP	4-1/16	4-1/16" - 4-7/16"	40	---
DBC-525-DP*	4-3/16	4-3/16" - 5"	60	---
DBC-550-DP*	5	5" - 5-1/2"	60	---
DBC-600-DP*	5-1/2	5-1/2" - 5-15/16"	60	---
DBC-639-DP	5-11/16	5-11/16" - 5-15/16"	60	---
DBC-675-DP*	6-1/8	6-1/8" - 6-7/8"	60	---
DBC-769-DP*	6-15/16	6-15/16" - 7-5/8"	60	---
DBC-818-DP	7-11/16	7-11/16" - 8-3/16"	125	---
DBC-875-DP*	8-1/4	8-1/4" -8-7/8"	125	---
DBC-988-DP*	8-15/16	8-15/16" - 9-7/8"	125	---
DBC-1125-DP*	9-15/16	9-15/16" - 11-3/8"	125	---
DBC-1275-DP*	11-3/16	11-3/16" - 13"	125	---
DBC-1360-DP	12-3/16	12-3/16" - 14"	200	---

R88 Series

IMPORT

Rugged, heavy duty two bolt clamps without saddles
Zinc plated ductile iron clamp
Zinc plated carbon steel bolt and nuts

PART #	SIZE	SIZE RANGE	MAX TORQUE FT LBS	LIST PRICE
R88DB-12-DP*	1-1/8	1-1/8" - 1-1/4"	15	---
R88DB-16-DP*	1-3/8	1-3/8" - 1-1/2"	20	---
R88DB-20-DP*	1-5/8	1-5/8" - 1-3/4"	25	---
R88DB-24-DP*	2	2" - 2-1/8"	25	---
R88DB-32-DP*	2-1/4	2-1/4" - 2-3/8"	30	---

SC SPIRAL CLAMP SERIES

IMPORT

Spiral wound clamps specifically designed for use
on heavily corrugated suction hoses.
Available in left hand (counter clock-wise) and right hand (clockwise) spiral.
Zinc plated steel construction.

PART #	LIST	HOSE ID	O.D. RANGE MM	PART #	LIST PRICE
SC-200R-SP*	---	2"	51 - 56	SC-200L-SP	---
SC-250R-SP	---	2-1/2"	61 - 76	SC-250L-SP	---
SC-300R-SP*	---	3"	76 - 90	SC-300L-SP	---
SC-400R-SP*	---	4"	106 - 118	SC-400L-SP	---
SC-500R-SP	---	5"	129 - 140	SC-500L-SP	---
SC-600R-SP*	---	6"	151 - 170	SC-600L-SP	---
SC-800R-SP	---	8"	198 - 217	SC-800L-SP	---
SC-1000R-SP	---	10"	274 - 290	SC-1000L-SP	---
SC-1200R-SP	---	12"	304 - 329	SC-1200L-SP	---

IMPORT

M10DC MAXICLAMP SERIES

Clamp sizes for hose O.D. from 131 mm to 252 mm
Silver (clear) zinc plated steel Band/Bridge/Trunnion/Sleeve/Bolt
10 mm silver zinc plated steel bolts
1.7 mm thick x 30 mm wide band
Suggested installation torque 30 Nm (22 Ft lbs)
Minimum breaking torque 40 Nm (29.5 ft.lbs.)

PART #	SIZE MM	RANGE	LIST PRICE
M10DC-86	86 - 91	3.38" - 3.58"	---
M10DC-92	92 - 97	3.62" - 3.82"	---
M10DC-104	104 - 112	4.09" - 4.41"	---
M10DC-113	113 - 121	4.45" - 4.76"	---
M10DC-122	122 - 130	4.80" - 5.12"	---
M10DC-131	131 - 139	5.16" - 5.47"	---
M10DC-140	140 - 148	5.51" - 5.83"	---
M10DC-149	149 - 161	5.87" - 6.34'	---
M10DC-162	162 - 174	6.38" - 6.85"	---
M10DC-175	175 - 187	6.89" - 7.36"	---
M10DC-188	188 - 200	7.40" - 7.87"	---
M10DC-200	200 - 220	7.87" - 8.66"	---
M10DC-220	220 - 240	8.66" - 9.45"	---
M10DC-240	240 - 260	9.45" - 10.24"	---
M10DC-260	260 - 280	10.24" - 11.02"	---
M10DC-280	280 - 300	11.02" - 11.81"	---
M10DC-300	300 - 325	11.81" - 12.80"	---
M10DC-325	325 - 350	12.80" - 13.78"	---
M10DC-350	350 - 375	13.78" - 14.76"	---
M10DC-375	375 - 400	14.76" - 15.75"	---
M10DC-400	400 - 425	15.75" - 16.73"	---
M10DC-425	425 - 450	17.73" - 17.72"	---
M10DC-450	450 - 475	17.72" - 18.70"	---

MUFFLER Clamps

Muffler Clamps are designed with elongated and tapered holes that pulls the legs around the pipe as the nuts tighten, making a tight seal. Other clamps legs do not wrap around the pipe, they stay straight and the clamp only connects at two points.

- Carbon steel band, housing and bridge
- All muffler clamps are zinc plated for superior corrosion resistance
- Heavy duty U-Bolt and band construction
- 3/8 U-bolt
- Base 2.4mm

SADDLE

PART #	SIZE	WGT	BOX QTY	LIST PRICE
841175	1-3/4"	0.335	50	---
841200	2"	0.410	50	---
841250	2-1/2"	0.448	50	---
841300	3"	0.582	50	---
841350	3-1/2"	0.741	50	---
841400	4"	0.847	25	---
841450	4-1/2"	1.023	25	---
841500	5"	1.067	25	---

FLAT BAND

PART #	SIZE	WGT	BOX QTY	LIST PRICE
841004	4"	0.847	25	---
841005	5"	1.093	25	---

GUILLOTINE - PROVIDES A COMPLETE 360° HEAVY DUTY SEAL

PART #	SIZE	WGT	BOX QTY	LIST PRICE
841040	4"	0.820	25	---
841045	4-1/2"	0.847	25	---
841050	5"	0.988	25	---

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

EXHAUST Clamps

Complete with:
- One metal band - 76mm width
- One spacer
- Two bolts
- Two reaction blocks
- Individually boxed

- Pre-attached hardware for easy and accurate installation.

- Conforms to pipe and flex tubing to create the best seal available without distorting any pipes.

ALUMINIZED STEEL BUTT CLAMPS

- .7mm band thickness
- 76mm band width

PART #	SIZE	WGT	BOX QTY	LIST PRICE
845200	2"	0.970	50	---
845300	3"	1.058	50	---
845350	3.50"	1.102	50	---
845400	4"	1.146	50	---
845500	5"	1.235	50	---
845600	6"	1.323	50	---

*Light pattern .5mm band thickness

ALUMINIZED STEEL LAP CLAMPS

- .7mm band thickness
- 76mm band width

PART #	SIZE	WGT	BOX QTY	LIST PRICE
846200	2"	0.970	50	---
846250	2.50"	1.014	50	---
846275	2.75"	1.036	50	---
846300	3"	1.058	50	---
846350	3.50"	1.102	50	---
846400	4"	1.146	50	---
846500	5"	1.235	50	---

STAINLESS STEEL LAP CLAMPS

- .5mm band thickness
- 76mm band width

PART #	SIZE	WGT	BOX QTY	LIST PRICE
847200	2"	0.926	50	---
847250	2.50"	0.970	50	---
847275	2.75"	0.992	50	---
847300	3"	1.014	50	---
847350	3.50"	1.058	50	---
847400	4"	1.102	50	---
847500	5"	1.190	50	---
847600	6"	1.279	50	---

STAINLESS STEEL EASY-FORM CLAMPS

- .5mm band thickness
- 76mm band width

PART #	SIZE	WGT	BOX QTY	LIST PRICE
848200	2"	0.926	50	---
848225	2.25"	0.948	50	---
848250	2.50"	0.970	50	---
848275	2.75"	0.992	50	---
848300	3"	1.014	50	---
848350	3.50"	1.058	50	---
848400	4"	1.102	50	---
848500	5"	1.190	50	---
848600	6"	1.279	50	---
848700	7"	1.367	50	---

WARNING: This product can expose you to chemicals, including chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CARBON STEEL 1-EAR CLAMPS

1-Ear Clamps are intended for low pressure applications such as automotive (not fuel lines), appliances, industrial machinery, underground irrigation systems and beverage dispensing equipment. They are specifically designed for mass production applications where inexpensive clamps are needed.

Pressure:
As a guideline, 1-Ear Clamps have held
30 bar - 441 psi.
This was done using a static water pressure test.

- 100 PER BAG

Material:
Hot dipped galvanized carbon steel band - G90

PART #	REF#	NOMINAL SIZE	INCHES		LIST PRICE
			CLOSE	OPEN	
1050000	105	3/8"	0.350	0.414	---
1050001	113	7/16"	0.381	0.444	---
1050002	123	15/32"	0.394	0.486	---
1050003	133	1/2"	0.453	0.524	---
1050006	140	35/64"	0.472	0.551	---
1050007	145	9/16"	0.496	0.571	---
1050008	157	5/8"	0.543	0.618	---
1050009	170	11/16"	0.594	0.669	---
1050010	185	23/32"	0.618	0.728	---
1050011	198	3/4"	0.669	0.779	---
1050012	210	13/16"	0.716	0.827	---
1050013	226	7/8"	0.779	0.890	---
1050014	241	15/16"	0.839	0.949	---
1050015	256	1"	0.898	1.008	---
1050016	271	1-1/16"	0.945	1.067	---
1050017	286	1-1/8"	1.004	1.126	---
1050018	301	1-3/16"	1.063	1.185	---
1050020	331	1-5/16"	1.181	1.303	---
1050021	346	1-3/8"	1.240	1.362	---
1050023	376	1-15/32"	1.358	1.480	---
1050025	396	1-9/16"	1.437	1.559	---
1050026	410	1-5/8"	1.492	1.614	---
1050029	455	1-3/4"	1.669	1.791	---
1050030	470	1-16/16"	1.728	1.850	---
1050032	500	1-15/16"	1.846	1.968	---
1050033	515	2"	1.905	2.028	---

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

EAR CLAMPS

2-EAR PINCH CLAMPS

Robust, durable one-piece design offers positive, tamper resistant seal for air and fluid media lines smooth edges prevent damage to hose designed for one time use only

CIRCLE CLAMP 2 EAR

White zinc plated carbon steel

PART #	SIZE	CLOSED	OPEN	LIST PRICE
CC-1113	1/2	0.433	0.512	---
CC-1315	9/16	0.512	0.591	---
CC-1517	19/32	0.591	0.669	---
CC-1518	5/8	0.591	0.709	---
CC-1720	3/4	0.669	0.787	---
CC-2023	7/8	0.787	0.906	---
CC-2225	15/16	0.866	0.984	---
CC-2327	1	0.906	1.063	---
CC-2528	1-1/16	0.984	1.102	---
CC-2731	1-1/8	1.063	1.220	---
CC-3134	1-5/16	1.220	1.339	---
CC-3437	1-7/16	1.339	1.457	---

GAPLESS EAR CLAMPS

Features
- Assured clamping seal
- For low durometer and/ or thin-walled hose/ tubing
- Perfect for silicon, vinyl, polyurethane or other high tech materials used in all industries.
- Once installed, smooth inner band circumference prevents damage to the hose while the unique tongue-in-groove design provides a 360° seal
- There are no steps or gaps inside clamp Material
  - Stainless steel tubing UNS S30400 or DIN 1.4301
- 100 PER BAG

PART #	NOMINAL SIZE	BAND WIDTH	INCHES CLOSE	INCHES OPEN	LIST PRICE
16700001	9/32"	5mm	0.228	0.276	---
16700004	3/8"	5mm	0.307	0.374	---
16700007	7/16"	5mm	0.378	0.445	---
16700010	1/2"	7mm	0.425	0.524	---
16700012	35/64"	7mm	0.453	0.551	---
16700013	9/16"	7mm	0.472	0.571	---
16700016	5/8"	7mm	0.520	0.618	---
16700017	11/16"	7mm	0.571	0.669	---
16700022	3/4"	7mm	0.654	0.780	---
16700024	13/16"	7mm	0.701	0.827	---

hammerlock CLAMPS

HAMMERLOCK CPHL SERIES

Double wrapped galvanized steel band preformed to a given diameter and ready for application.

IMPORT

PART #	SIZE	WIDTH	LIST PRICE
CPHL-03	1-3/16"	3/8"	---
CPHL-04	1"	5/8"	---
CPHL-05*	1-1/4"	5/8"	---
CPHL-06	1-1/2"	5/8"	---
CPHL-07*	1-3/4"	5/8"	---
CPHL-08*	2"	5/8"	---
CPHL-09	2-1/4"	5/8"	---
CPHL-10*	2-1/2"	5/8"	---
CPHL-11*	2-3/4"	5/8"	---
CPHL-12	3"	5/8"	---
CPHL-14*	3-1/2"	5/8"	---
CPHL-16*	4"	5/8"	---
CPHL-18	4-1/2"	5/8"	---
CPHL-20*	5"	5/8"	---
CPHL-24*	6"	5/8"	---
CPHL-26	6-1/2"	5/8"	---
CPHL-28*	7"	5/8"	---
CPHL-32	8"	5/8"	---

HAMMERLOCK CPHLS SERIES

Double wrapped stainless steel band preformed to a given diameter and ready for application. Stainless steel lok for strength.

IMPORT

PART #	SIZE	WIDTH	LIST PRICE
CPHLS-04*	1"	5/8"	---
CPHLS-05*	1-1/4"	5/8"	---
CPHLS-06*	1-1/2"	5/8"	---
CPHLS-07*	1-3/4"	5/8"	---
CPHLS-08*	2"	5/8"	---
CPHLS-09*	2-1/4"	5/8"	---
CPHLS-10*	2-1/2"	5/8"	---
CPHLS-11*	2-3/4"	5/8"	---
CPHLS-12*	3"	5/8"	---
CPHLS-14*	3-1/2"	5/8"	---
CPHLS-16*	4"	5/8"	---
CPHLS-18*	4-1/2"	5/8"	---
CPHLS-20*	5"	5/8"	---
CPHLS-24*	6"	5/8"	---
CPHLS-28*	7"	5/8"	---
CPHLS-32	8"	5/8"	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CLAMPING TOOLS
HOSE CLAMPS

MODEL 1098 I STANDARD JAW PINCERS

Domestic

PART #	LIST PRICE
OETP-1098	---

Import

PART #	LIST PRICE
CCP-1098	---

PART #	LIST PRICE
1410118	---

SIDE JAW PINCERS

This dual purpose, side jaw design allows clamps to be applied or removed in confined areas with pincers held parallel to the hose. Also used like standard Pincers.

Domestic

PART #		LIST PRICE
1410083	Model 10991	---

TPT TOOLS AND PARTS

PART #	LIST PRICE
TPT-1	---

HOSE CRIMPER

HOSE CRIMPER COMES WITH 5 DIES

Die Sizes = 5/8", 37/64", 12/32", 31/64", 11/16"

PART #		LIST PRICE
308070	Hose Crimper	---

LOKING TOOL

PART #	LIST PRICE
F38	---

Portable hand tool used to apply punch Type 3/8 & 5/8 Clamps

BUCHANANTYPE

LOKING TOOL

PART #	LIST PRICE
F40	---

Used to apply Punch Type 3/8 & 5/8 clamps. Order mallet separately

LOKING TOOL

Used to apply Punch Type 3/8 & 5/8 clamps. Order mallet separately

PART #	LIST PRICE
F100	---

LOKING TOOL HD

PART #		LIST PRICE
P1	HEAVY DUTY	---

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

LINED BAND CLAMPS
HOSE CLAMPS

Features unique one-piece housing, rolled-up band edges and a non-perforated (embossed) band that protects the hose. For added corrosion resistance, the band in the 12mm Standard is made of Aluzinc which gives three times the protection offered by conventional galvanized steel.
- Features high clamping force and high durability torque.
- Stainless: All parts in AISI 304 Stainless Steel.

A non-perforated band with rolled up edges eliminates hose damage while increasing clamping force.
Per SAE standard J1508 Type "FEO"

GENERAL PURPOSE EMBOSSED WORM-GEAR HOSE CLAMPS

- Minimum Qty may apply

Part # Aluzinc	List Price	SAE Size	Clamping Range		Bag	Part# 304 SS	List Price
			Inches	mm			
88024	------	8	5/8-1	15-24	1000	89024	------
88028	------	10	3/4-1-1/8	19-28	500	89028	------
88032	------	12	7/8-1-1/4	22-32	500	89032	------
88038	------	16	1-1/16-1-1/2	26-38	500	89038	------
		20	1-1/4-1-3/4	32-44	500	89044	------
88050	------	24	1-1/2-2	38-50	500	89050	------
88056	------	28	1-3/4-2-1/4	44-56	500	89056	------
88065	------	32	2-2-9/16	50-65	200	89065	------
88075	------	40	2-5/16-3	58-75	200	89075	------
88085	------	44	2-11/16-3-3/8	68-85	200	89085	------
88095	------	52	3-3-3/4	77-95	200	89095	------
88112	------	64	3-7/16-4-7/16	87-112	200	89112	------

MINI CLAMPS

Sure seal for small, thin walled hoses. The nut is secured to the clamp, making installation easier and the hexagonal head can be tightened with a socket wrench or screw driver. Bandwidth is 9mm.

PAINTED ALUZINC STANDARD MINI CLAMPS

PART # ALUZINC	CLAMPING RANGE		QTY PER BAG	LIST PRICE
	INCHES	MM		
92010	.36-.41	9-10.5	1000	------
92011	.37-.45	9.5-11.5	900	------
92012	.41-.49	10.5-12.5	800	------
92013	.45-.53	11.5-13.5	800	------
92014	.49-.57	12.5-14.5	700	------
92015	.53-.61	13.5-15.5	600	------
92016	.55-.65	14-16.5	500	------
92017	.59-.69	15-17.5	500	------

MARINE - EMBOSSED
NON-PERFORATED WORM GEAR CLAMPS

- Meets the DIN 3017 Standard
- Replaces the Ultra Clamps 316 stainless steel
- 12mm band widths
- Installation torque 60lbs
- General purpose non perforated band especially suited for most hoses and soft silicone hoses.
- Band edges rolled to protect soft hoses from shearing and fraying
- Common applications include: vehicular, industrial, mechanical engineering, plumbing and marine.
- ROLLED EDGES
- BAND WILL NOT DAMAGE SOFT HOSES

ALL #316 SS MATERIAL

12MM WIDE EMBOSSED ALL 316 BAND CLAMPS

PART #	RANGE OF ADJUST (IN MM)	RANGE OF ADJUST (INCHES)	LIST PRICE
96022	12-22	.469-.859	----
96027	16-27	.625-1.06	------
96032	20-32	.787-1.26	------
96040	25-40	.984-1.575	------
96050	35-50	1.26-1.969	------
96060	40-60	1.575-2.362	------
96070	50-70	1.969-2.756	------
96080	60-80	2.362-3.15	------
96090	70-90	2.756-3.543	------
96100	80-100	3.15-3.937	------
96110	90-110	3.543-4.33	------
96120	100-120	3.937-4.724	------
96130	110-130	4.33-5.118	------
96140	120-140	4.72-5.512	------
96150	130-150	5.118-5.906	------
96160	140-160	5.512-6.299	------

MINI CLAMPS

304 SS MINI CLAMPS

PART # 304 SS	CLAMPING RANGE		QTY PER BAG	LIST PRICE
	INCHES	MM		
93008	.30-.34	7.5-8.5	1000	---
93009	.34-.37	8.5-9.5	1000	---
93011	.41-.47	10.5-12	900	---
93013	.49-.55	12.5-14	800	---
93017	.63-.71	16-18	500	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LINED, MINI/ RUBBER LINED

HOSE CLAMPS

RUBBER LINED CLAMPS

Multiple uses for holding cable, wire, pipe and hose. The rubber cushion absorbs vibration, provides protection against scratching and is made of black EPDM type rubber.

Rubber cushion clamps are used in a variety of industries and applications including automotive, truck, hydraulics and pneumatics, ship building, refrigeration, large equipmetnt packaging etc.

Bandwidths and mounting hose sizes vary by diameter and material.

- Aluzinc clamps have a .26 hole diameter
- Stainless Steel .20 diameter

PART # ALUZ-INC	QTY PER BAG	LIST PRICE	CLAMPING RANGE		PART# 304 SS	QTY PER BAG	LIST PRICE
			INCHES	MM			
95300	100	------	1/8	3			
95301	100	------	3/16	5	96301	1000	---
95302	100	------	1/4	6	96302	200	---
95303	100	------	5/16	8	96303	1000	---
95304	100	------	3/8	10	96304	100	---
95305	100	------	7/16	11	96305	1000	---
95306	100	------	1/2	13	96306	100	---
95307	100	------	9/16	14	96307	100	---
95308	100	------	5/8	16	96308	100	---
95309	50	------	11/16	18			
95310	50	------	3/4	19	96310	500	---
95311	50	------	13/16	21			
95312	50	------	7/8	22	96312	500	---
95313	50	------	15/16	24			
95314	50	------	1	25	96314	500	---
95315	50	------	1-1/16	27			
95316	50	------	1-1/8	29	96316	500	---
95317	50	------	1-3/16	30			
95318	50	------	1-1/4	32	96318	500	---
95319	50	------	1-5/16	33			
95320	50	------	1-3/8	35	96320	500	---
95321	50	------	1-7/16	36			
95322	500	------	1-1/2	38	96322	100	---
95326	50	------	1-5/8	41			
95323	25	------	1-3/4	45	96323	500	---
95328	25	------	1-7/8	47			
95324	25	------	2	51			
95325	25	------	2-1/8	54			
95329	25	------	2-3/8	60			
95327	25	------	2-1/2	65			
95330	15	------	2-15/16	74			
95331	10	------	4-5/16	110			

RUBBER CUSHIONED CLAMP, ZINC PLATED STEEL

PART #	MOUNTING DIA	CLAMP DIA	LIST PRICE
95402	3/8"	1/4"	------
95404	3/8"	3/8"	------
95406	3/8"	1/2"	------
95408	3/8"	5/8"	------
95410	3/8"	3/4"	------
95414	3/8"	1"	------
95418	3/8"	1 1/4"	------
95422	3/8"	1 1/2"	------
95424	3/8"	2"	------
95427	3/8"	2 1/2"	------
95432	3/8"	3"	------
95433	3/8"	4"	------

GALVANIZED STEEL VINYL COATED CLAMP

PART #	MOUNTING DIA	CLAMP DIA	LIST PRICE
95504	1/4"	3/8"	------
95506	1/4"	1/2"	------
95508	1/4"	5/8"	------
95510	1/4"	3/4"	------
95512	1/4"	7/8"	------
95514	1/4"	1"	------
95516	1/4"	1 1/8"	------
95518	1/4"	1 1/4"	------
95522	1/4"	1 1/2"	------
95523	1/4"	1 3/4"	------
95524	1/4"	2"	------

HOSE FERRULES

Brass Hose Ferrules offer an alternative to hose clamps. After crimping, the ferrule will provide a permanent clamping force on both the hose and fitting.

I.D. Pierce/ Hole

- ASTMB36 Alloy 268

PART #	FERRULE #	I.D.	LENGTH	PIERCE	GAUGE	LIST
32500	6231	0.330	0.49	0.250	0.020	---
32501	833	0.358	0.500	0.265	0.020	---
32503	833B	0.375	0.718	0.265	0.025	---
32502	622	0.380	0.500	0.265	0.020	---
32550	619	0.400	0.47	0.27	0.020	---
32504	620	0.410	0.500	0.265	0.020	---
32551	769R	0.450	0.562	0.343	0.020	---
32552	4750	0.478	0.687	0.328	0.025	---
32553	624R	0.500	0.500	0.343	0.020	---
32506	7322A	0.500	1.000	0.343	0.025	---
32554	7322	0.500	1.000	0.328	0.025	---
32555	625	0.525	0.47	0.36	0.020	---
32517	625A	0.525	0.56	0.360	0.020	---
32556	7323	0.525	1.000	0.375	0.025	---
32521	9974	0.525	1.000	0.437	0.025	---
32557	7324	0.531	1.000	0.375	0.025	---
32558	626	0.550	0.484	0.375	0.020	---
32507	3588	0.56	0.75	0.375	0.020	---
32559	7325	0.56	1.000	0.437	0.025	---
32561	7326	0.593	1.000	0.437	0.025	---
32563	JJ	0.600	0.500	0.500	0.020	---
32526	II	0.625	0.500	0.500	0.020	---
32564	7327	0.625	1.000	0.437	0.025	---
32565	HH	0.650	0.500	0.500	0.020	---
32566	7328	0.656	1.000	0.437	0.025	---
32567	GG	0.675	0.515	0.500	0.020	---
32568	7329	0.69	1.000	0.500	0.025	---

PART #	FERRULE #	I.D.	LENGTH	PIERCE	GAUGE	LIST
32570	7330	0.718	1.000	0.500	0.025	---
32508	7330A	0.718	1.000	0.625	0.025	---
32571	EE	0.725	0.530	0.500	0.020	---
32572	DD	0.750	0.531	0.500	0.020	---
32510	7331B	0.75	1.00	0.500	0.025	---
32573	7331	0.750	1.000	0.625	0.025	---
32574	CC	0.775	0.531	0.500	0.020	---
32533	7332B	0.781	1.000	0.500	0.025	---
32575	7332	0.781	1.000	0.625	0.025	---
32576	BB	0.800	0.546	0.562	0.020	---
32577	7333	0.812	1.000	0.625	0.025	---
32578	AA	0.825	0.546	0.562	0.020	---
32535		0.85	0.968	0.687	0.025	---
32579	7244	0.875	0.843	0.687	0.025	---
32539	5029A	0.900	0.875	0.687	0.025	---
32580	7113	0.925	0.968	0.750	0.025	---
32543	5028A	0.975	0.843	0.687	0.025	---
32545	5235A	1.000	0.843	0.687	0.025	---
32549	7145A	1.050	0.843	0.687	0.025	---
32584	5027	1.100	0.843	0.812	0.025	---
32586	7104A	1.15	0.843	0.875	0.025	---
32588	7088A	1.175	0.875	0.875	0.025	---
32590	875L	1.200	0.843	0.875	0.025	---
32591	7291	1.225	0.968	0.875	0.025	---
32592	7255	1.25	0.968	1.000	0.04	---
32596	8000	1.425	0.875	1.062	0.025	---
32597	1500	1.50	0.875	1.125	0.025	---

STAINLESS STEEL FERRULES

PART #	CROSS #	I.D.	LENGTH	HOLE	METAL THICKNESS	LIST PRICE
32552SS	x4750	.478	.687	.328	.020	---
32557SS	7324	.531	1.00	.438	.020	---
32559SS	7325	.56	1.00	.437	.020	---
32561SS	7326	.593	1.00	.437	.020	---
32564SS	7327	.625	1.00	.437	.020	---
32566SS	7328	.656	1.00	.437	.020	---
32568SS	7329	.69	1.00	.50	.020	---
32570SS	7330	.718	1.00	.625	.020	---
32575SS	7332	.781	1.00	.625	.020	---
32577SS	7333	.812	1.00	.625	.020	---
32588SS	7088A	1.175	.844	.875	.020	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information, visit www.P65Warnings.ca.gov

TUBING

POLYURETHANE

POLYETHYLENE

Sold individually boxed

Natural, Black, Blue, Green, Red, Yellow, Orange

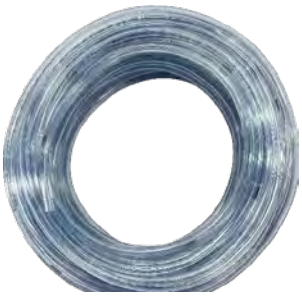
NYLON

Sold individually boxed

PVC

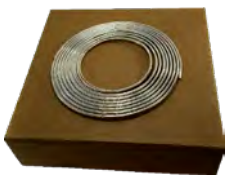
• Clear

Sold individually boxed



COPPER AND ALUMINUM

TYPE L AND REFRIGERATION



ALUMINUM

POLYURETHANE NSF 51®

NSF 51® polyurethane (PUR) Shore A 98 tubing is made from the highest quality raw materials available. it is etherbased to provide excellent hydrolysis, oil and cold resistance. Polyurethane NSF 51® is strong and flexible and offers superior kink resistance compared to other tubing. It is 5 to 10 times more wear resistant and lighter in weight than any rubber hose.

Polyurethane NSF 51® tubing has an outside diameter made to extremely tight tolerances. It is ideal for use with push-to-connect fittings, as well as barb-type and compression fittings for simple installation.

Features

- Strong
- Lightweight
- Flexible
- Abrasion Resistant
- Heat & Cold Resistant
- Chemical Resistant
- Kink Resistant
- NSF 51® Certified
- Meets NSF 61® Requirements

Specifications

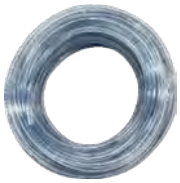
Temperature Range: -40°F to +160°F
Hardness: Shore A 98
Vacuum Rating:
To 28" Hg
Tolerances:
1/8"-1/2" O.D. +/- .005
9/16"-3/4" O.D. +/- .006
RoHS Compliant

Applications

Pneumatic Tools
Pneumatic Piping
Vacuum
Laboratories
Robotics
Motion Control
Instrumentation
Agriculture
Lube Lines
Painting Systems
Food & Beverages

100' FOOT LENGTHS

CLEAR



PART #	O.D. (IN)	I.D. (IN)	WALL THICKNESS (IN)	BEND RADIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRESSURE	PACKAGE WEIGHT (LBS)	LIST PRICE
973341	4mm, 5/32	.093	.031	.250	200	85	600	.70	---
973343	.250	.156	.047	.476	180	70	540	1.50	---
973345	.375	.250	.063	1.000	150	70	450	3.40	---

BLACK

PART #	O.D. (IN)	I.D. (IN)	WALL THICKNESS (IN)	BEND RADIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRESSURE	PACKAGE WEIGHT (LBS)	LIST PRICE
73341B	4mm, 5/32	.093	.031	.250	200	85	600	.70	---
73343B	.250	.156	.047	.476	180	70	540	1.50	---
73345B	.375	.250	.063	1.000	150	70	450	3.40	---
73346B	.500	.328	.086	1.102	150	70	450	5.60	---

BLUE

PART #	O.D. (IN)	I.D. (IN)	WALL THICKNESS (IN)	BEND RADIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRESSURE	PACKAGE WEIGHT (LBS)	LIST PRICE
73341U	4mm, 5/32	.093	.031	.250	200	85	600	.70	---
73343U	.250	.156	.047	.476	180	70	540	1.50	---
73345U	.375	.250	.063	1.000	150	70	450	3.40	---

RED

PART #	O.D. (IN)	I.D. (IN)	WALL THICKNESS (IN)	BEND RADIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRESSURE	PACKAGE WEIGHT (LBS)	LIST PRICE
73341R	4mm, 5/32	.093	.031	.250	200	85	600	.70	---
73343R	.250	.156	.047	.476	180	70	540	1.50	---
73345R	.375	.250	.063	1.000	150	70	450	3.40	---
73346R	.562	.375	.093	1.142	140	60	420	5.60	---

OD Sizes Available

.125, .187, 1/4(1/8), 8mm(5/16)
.562, .625 and .750

POLYETHYLENE

LINEAR LOW DENSITY POLYETHYLENE TUBING (LLDPE)

Features

- Chemically Inert
- Chemical Resistant
- Lightweight & Flexible
- Good Dielectric Properties
- Impermeable to Gases
- Meets FDA Requirements
- Multiple Colors Available
- Vacuum rating to 28" Hg

Polyethylene is made from 100% non-toxic ingredients. It's inert nature and FDA compliant status makes it perfect for food, water and beverage piping. It is ideal for use in pneumatic, drain piping, lab use and chemical transfer applications which require an inexpensive tubing

Polyethylene is highly-resistant to stress cracking from chemicals, aging and ultraviolet exposure. For use with barb-type, push-to-connect or compression-style fittings.

Specifications

Temperature Range: -50°F to +140°F
Hardness: Shore A 93A
Shore D 45D

Applications

Food & Beverage
Pneumatic Tools
Pneumatic Piping
Electrical Jacketing
Drain Lines
Instrumentation
Chemical Transfer
Process Control
Laboratories

100' LENGTH

500' LENGTH

1000' LENGTH

100' LENGTH - Natural

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	LIST PRICE
973200	1/8"	0.08	0.022	250	---
973201	5/32"				---
973203	1/4"	0.17	0.040	150	---
973204	1/4"	0.125	0.0625	350	---
973205	8mm/5/16"	0.236	0.038	150	---
973206	3/8"	0.25	0.0625	150	---
973207	1/2"	0.375	0.0625	125	---
973208	5/8"	0.50	0.0625	100	---
973211	3/4"				---

500' LENGTH

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	LIST PRICE
73200N5	1/8"	0.085	0.020	250	---
73203N5	1/4"	0.17	0.040	150	---
73204N5	1/4"	0.125	0.0625	350	---
73206N5	3/8"	0.25	0.0625	150	---
73207N5	1/2"	0.375	0.0625	125	---

1000' LENGTH

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	LIST PRICE
73203N1	1/4"	0.17	0.040	150	---
73206N1	3/8"	0.25	0.0625	150	---

LLDPE POLYETHYLENE TUBING - COLORS

BLACK

- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMINAL O.D.	LIST PRICE
73203B	Black	100'	1/4"	---
73204B	Black	100'	1/4"	---
73205B	Black	100'	5/16"	---
73206B	Black	100'	3/8"	---
73207B	Black	100'	1/2"	---
73208B	Black	100'	5/8"	---
73203B5	Black	500'	1/4"	---
73205B5	Black	500'	5/16"	---
73206B5	Black	500'	3/8"	---
73207B5	Black	500'	1/2"	---
73203B1	Black	1000'	1/4"	---
73206B1	Black	1000'	3/8"	---

GREEN

- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMI-NAL O.D.	LIST PRICE
73203G	Green	100'	1/4"	---

RED

- 100'
- 500'
- 1000'

PART #	COL-OR	LENGTH	NOMI-NAL O.D.	LIST PRICE
73203R	Red	100'	1/4"	---
73206R	Red	100'	3/8"	---
73203R5	Red	500'	1/4"	---
73206R5	Red	500'	3/8"	---
73203R1	Red	1000'	1/4"	---

BLUE

- 100'
- 500'
- 1000'

PART #	COL-OR	LENGTH	NOMI-NAL O.D.	LIST PRICE
73203U	Blue	100'	1/4"	---
73206U	Blue	100'	3/8"	---
73207U	Blue	100'	1/2"	---
73203U5	Blue	500'	1/4"	---
73206U5	Blue	500'	3/8"	---
73203U1	Blue	1000'	1/4"	---

NYLON 12 TUBING

Nylon 12 tubing is recognized as an industry standard for applications which require higher working pressures and higher heat and/or chemical resistance. It is ideal for outdoor use applications because of its superior stress crack resistance. Nylon 12 is strong, lightweight and has a very low moisture absorption rate compared to other nylons. By not absorbing moisture, Nylon 12 remains more flexible, which in turn extends it's service life. Nylon 12 tubing can be used with standard push-to-connect fittings and compression fittings for simple installation.

Because of it's semi-rigid properties, a thinner tube wall provides higher flow rates and working pressure.

Features

- Strong
- Lightweight
- Flexible
- Abrasion Resistant
- Heat Resistant
- Chemical Resistant
- Heat/ Light Stabilized
- Black - UV Rated

Specifications

Temperature Range: -60°F to +200°F
Hardness: Rockwell 78 R
Shore D 70
Vacuum Rating: To 28" Hg
Higher Flow Rates & Working Pressure
Tolerances: 1/8'-1/4" +/- .004
3/4"-1/2" +/- .006

Applications

Pneumatic Tools
Pneumatic Piping
Instrumentation
Lube Lines
Coolants
Refrigeration
Chemical Transfer
Vacuum
Process Control
Fuel Lines
Paint Supply Lines
Laboratories

Part #'s shown are for natural. 500' and 1000' reels available on request.

100' LENGTH

BLACK TUBING & MISC.

METRIC LENGTH

100' LENGTH

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	LIST PRICE
973230	1/8"	0.08	.022	420	---
973231	5/32"	0.106	.025	350	---
973232	1/4"	0.18	.035	290	---
973238	1/4"	0.15	.05	800	---
973226	5/16"	0.236	.039	250	---
973233	3/8"	0.275	.050	250	---
973234	1/2"	0.375	.062	240	---

BLACK TUBING & MISC.

PART #	O.D.	TUBE ID	WALL	WORKING PRESSURE	LIST PRICE
73230B	1/8	0.08	0.022	420	---
73231B	5/32	0.106	0.025	350	---
73232B	1/4	0.18	0.035	290	---
73238B	1/4	0.15	0.05	800	---
73233B	3/8	0.275	0.05	250	---
73232N5*	1/4	0.18	0.035	290	---
73238U**	1/4	0.15	0.075	800	---

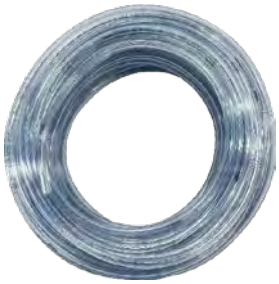
• 500' Natural **Blue

*METRIC LENGTH - 100 ft. coils

• available in natural color only

PART #	MM O.D.	MM I.D.	MM WALL	WORKING PRESSURE	LIST PRICE
973323	4	2.7	0.65	350	---
973326	6	3.5	1.25	350	---
973325	6	4	1	340	---
973327	8	6	1	250	---
973329	10	8	1	225	---
973332	12	10	1	200	---
973334	14	11	1.5	175	---

PVC POLYVINYLCHLORIDE TUBING - NSF61



PVC is suited for general, low-pressure, industrial applications for the conveyance of liquids and solids of suitable granular size. Made from a PVC compound that complies with FDA regulations. Although it is primarily intended for applications where pressure is not essential, it will withstand the pressures shown.

The clear PVC Tubing provides good chemical resistance, is lightweight, flexible and economically priced.

Features
- Lightweight
- Flexible
- Food Grade
- Clear Color/ Blue tint

Specifications
Temperature Range: +25°F to +150°F
Hardness: Shore A 75 PVC
Meets FDA requirements
NSF 61 Certified
USP Class VI rated materials
RoHS Compliant

Applications
Beverage Dispensing
Drain Tubing
Potable Water
Laboratory Tubing
Wine Transfer
Low Pressure Air Line
Distilled Water Transfer
Light Vacuum
Wire Harness
3:1 Burst Pressure

Colors Available: Clear

Package Lengths: 100'

100' LENGTH

PART #	TUBE I.D.	TUBE O.D.	TUBE WALL	WORKING PRESSURE	LIST PRICE
973224	1/8 (.125)	1/4 (.25)	1/16 (.032)	50	---
973223	3/16 (.187)	5/16 (.313)	1/16 (.062)	55	---
973215	1/4 (.25)	3/8 (.375)	1/16 (.062)	55	---
973252	5/16 (.312)	7/16 (.438)	1/16 (.062)	50	---
973253	5/16 (.312)	1/2 (.500)	3/32 (.094)	55	---
973216	3/8 (.375)	1/2 (.500)	1/16 (.062)	45	---
973255	3/8 (.375)	5/8 (.625)	1/8 (.125)	55	---
973262	3/8 (.375)	9/16 (.563)	3/32 (.094)	50	---
973217	1/2 (.500)	5/8 (.625)	1/16 (.062)	30	---
973219	3/4 (.750)	1 (1.00)	1/8 (.125)	35	---
973221	1 (1.00)	1-1/4 (1.25)	1/8 (.125)	25	---

TUBE CUTTERS

MINI-TUBING CUTTER

- Great for tight places

Part #	Size	List Price
990571	3mm-22mm (1/8"-7/8")	---

TUBING CUTTER

PART #	SIZE	LIST PRICE
990570	1/8"-1-1/8"	---

PLASTIC TUBE CUTTER

Range: 1/8" - 3/8" I.D. (3mm-10mm)

PART #	DESCRIPTION	LIST PRICE
91707	Cutter w/Blade	---

MOUNTING RACKS

- Route and secure multiple tubing lines
- Mounting versatility
  - Racks can be easily hand separated down to single holders.
  - Thru holes provided (all sizes)
- Standard color is BLACK.

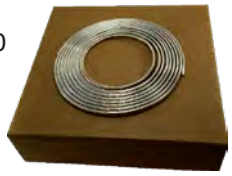
Other colors available on special request.

NOTE: MOUNTING SCREWS NOT PROVIDED

PART #	TUBING OD	DESCRIP.	CHANNELS	LIST
28988	1/4	non-adhesive	10	---
28989	1/4	adhesive	10	---
28990	3/8	non-adhesive	7	---
28991	1/2	non-adhesive	5	---

ALUMINUM TUBING – EASY BEND

Alloy 3003-0 ASTM B-483



Material to ASTM B-483

900 PSI max
3700 Burst PSI

Bend this tubing into the shape you need without special tools or elbow fittings. It is also known as Alloy 3003. Tubing has seamless construction, which provides a smooth interior and allows it to be flared without splitting. Use with water, air, alcohol and oil. Tubing meets ASTM B483 and has a soft (annealed) temper. OD tolerance is ±0.004"

ALUMINUM VERSATUBE 50' COILS

PART #	O.D.	WALL THICK	ID	MAX PSI @ 100°F	CASE	50' COILS
972190	1/8	.025	.075"	2,300	10 coils	---
972191	3/16	.028	.132"	1,600	10 coils	---
972192	1/4	.032	.186"	1,400	10 coils	---
972193	5/16	.035	.243"	1,200	10 coils	---
972194	3/8	.035	.305"	1,000	10 coils	---
972195	1/2	.035	.43"	740	10 coils	---

COPPER TUBING – REFRIGERATION TUBING

ASTMB280

- Temp range: 32° to 400°F
- Bend with a bending tool

This copper Alloy 122 tube comes cleaned and capped to prevent moisture and dirt from contaminating the inside. It's often called refrigeration and air conditioning tubing. Use with water, natural gas, oil and R22 refrigerant. Tubing meets ASTM B280. It has seamless construction, which provides a smooth interior. Tubing has a soft (annealed) temper.

REFRIGERATION COPPER TUBE 50' COILS

PART #	TUBE SIZE	OD	WALL	ID	MAX PSI @ 100°F	WEIGHT PER 50' COIL	50' COILS
972180	-	1/8	.030	.065"	3,000	1.74	---
972181	-	3/16	.030	.128"	1,900	2.88	---
972182	1/8	1/4	.030	.19"	1,400	4..02	---
972183	-	5/16	.032	.248"	1,100	5.45	---
972184	1/4	3/8	.032	.311"	980	6.70	---
972185	3/8	1/2	.032	.436"	720	9.10	---
972186	1/2	5/8	.035	.555"	610	12.55	---
972187	5/8	3/4	.035	.68'	510	15.25	---

COPPER TUBING - DRINKING WATER

For residential water lines

- Temp range: 32° to 180°F
- Bend with a bending tool

NSF 61 certified for drinking (potable) water, this copper Alloy 122 tubing is also called type L. Tubing meets ASTM B88. It has seamless construction, which porovides a smooth interior. Coils - Have a soft (annealed) temper.

• Water service • Natural, liquified and petroleum gases • Fire protection • Solar • Fuel/ Fuel oil • HVAC • Snow melting - Air Brake

TYPE L SOFT COPPER TUBING 60' COILS

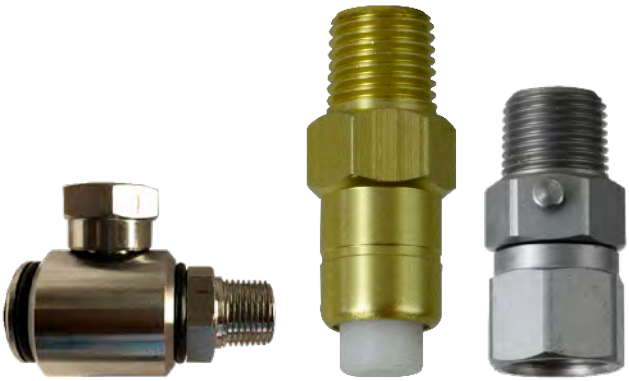
PART #	TUBE SIZE	OD	WALL	ID	MAX PSI @ 100°F	WEIGHT PER 60' COIL	60' COILS
972171	1/4	3/8"	.03"	.315"	910	7.56	---
972172	3/8	1/2	.035"	.43"	770	11.88	---
972173	1/2	5/8"	.04"	.545"	720	17.10	---

WARNING: This product can expose you to chemicals, including Lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HIGH PRESSURE SPRAYERS

STRAIGHT THROUGH QDS

FITTINGS AND SWIVELS



NOZZLES

SPRAY GUNS AND WANDS

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information, visit www.P65Warnings.ca.gov

NOZZLES

QUICK DISCONNECT NOZZLE

0-degree red tip nozzle, 15-degree yellow tip nozzle, 25-degree green tip nozzle, 40-degree white tip nozzle, and 65-degree black tip detergent nozzle. All nozzles are 4000 PSI and stainless steel, except for detergent nozzle, which is 600 PSI and brass. All Nozzles are rated for temperatures up to 300°F. Nozzles attach with ¼" quick disconnect plug.

PART #	DEGREE OF SPRAY	GPM @ 4000PSI	LIST PRICE
DX250030	0	3.0	---
DX251530	15	3.0	---
DX252530	25	3.0	---
DX254030	40	3.0	---
DX250040	0	4.0	---
DX251540	15	4.0	---
DX252540	25	4.0	---
DX254040	40	4.0	---
DX250050	0	5.0	---
DX251550	15	5.0	---
DX252550	25	5.0	---
DX254050	40	5.0	---
DX250060	0	6.0	---
DX251560	15	6.0	---
DX252560	25	6.0	---
DX254060	40	6.0	---
DX256500	65		---

MEG NOZZLE

Available in 0-degree nozzle, 15-degree nozzle, 25-degree nozzle, or 40-degree nozzle. Nozzle sizes 3.0, 4.0, 5.0, 6.0 or 7.0. All nozzles are 7250 PSI 300°F, stainless steel and ¼" male pipe thread.

PART #	DEGREE OF SPRAY	GPM @ 4000PSI	LIST PRICE
DX140030MG	0	3.0	---
DX141530MG	15	3.0	---
DX142530MG	25	3.0	---
DX144030MG	40	3.0	---
DX140040MG	0	4.0	---
DX141540MG	15	4.0	---
DX142540MG	25	4.0	---
DX144040MG	40	4.0	---
DX140050MG	0	5.0	---
DX141550MG	15	5.0	---
DX142550MG	25	5.0	---
DX144050MG	40	5.0	---
DX140060MG	0	6.0	---
DX141560MG	15	6.0	---
DX142560MG	25	6.0	---
DX144060MG	40	6.0	---
DX140070MG	0	7.0	---
DX141570MG	15	7.0	---
DX142570MG	25	7.0	---
DX144070MG	40	7.0	---

QUICK DISCONNECT NOZZLE 5-PIECE KIT

PART #	GPM @ 4000PSI	LIST PRICE
DX259520	2.0	---
DX259530	3.0	---
DX259540	4.0	---
DX259550	5.0	---
DX259560	6.0	---
DX259570	7.0	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SWIVELS

RUBBER-TIP TURBO NOZZLE

Rubber tip, rotating turbo nozzle, ¼" NPT with steel male quick disconnect plug adaptor, rated for temperatures up to 300°F.

PART #	PSI	GPM @ 4000PSI	LIST PRICE
DX722530	2500	3.0	---
DX722540	2500	4.0	---
DX722550	2500	5.0	---
DX722560	2500	6.0	---
DX723230	3200	3.0	---
DX723240	3200	4.0	---
DX723250	3200	5.0	---
DX723260	3200	6.0	---
DX724030	4000	3.0	---
DX724040	4000	4.0	---
DX724050	4000	5.0	---
DX724060	4000	6.0	---
DX725030	5000	3.0	---
DX725040	5000	4.0	---
DX725050	5000	5.0	---
DX725060	5000	6.0	---

THERMAL RELIEF VALVE

140F Thermal Relief Valve, Brass, 300 PSI

- Attaches directly to pump

PART #	SIZE	LIST PRICE
DX35TR25	1/4"	---
DX35TR38	3/8"	---

90° BOOM SWIVEL

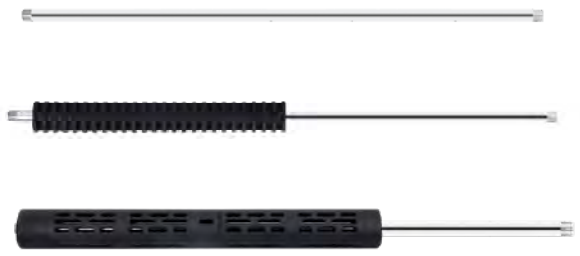
Male x Female 90° Boom swivel, Stainless Steel, 5000 PSI, 7GPM, 300°F

PART #	SIZE	LIST PRICE
DX60092	3/8"	---

SPRAYERS

CHROMED STEEL WAND

1/4" MNPT x 1/4" Extension Wands, 10.5 GPM, 300F



PART #	SIZE	GRIP	LIST PRICE
DX4324	24"	No Grip	---
DX4336	36"	No Grip	---
DX4424	24"	Molded Grip	---
DX4436	36"	Molded Grip	---
DX4524VG	24"	Vented Grip	---
DX4536VG	36"	Vented Grip	---

SPRAY GUN

Rear entry spray gun, 4000 PSI, 7 GPM, 212F max, inlet 3/8", outlet 1/4"

PART #	PRESSURE	FLOW	TEMPERATURE	LIST PRICE
DX5090	4000	7	212	---
DX5022	4000	6.6	300	---
DX5005	5075	10.5	300	---

WEEPING SPRAY GUN

Rear entry spray gun, weeping, 5000 PSI, 10.5 GPM, 300F, , inlet 3/8", outlet 1/4"

Weep style spray guns allow for a continuous flow of water by way of a small hole in the bottom of the gun that produces a slight leak, or a weeping effect. This helps prevent lines freezing in cold weather or scalding water temperatures in hot weather that could damage the pumps.

PART #	LIST PRICE
DX5006	---

SPRAY GUN WITH EXTENSION*

Rear entry spray gun with 12" extension, 4000psi, 7gpm, 300F max, inlet 3/8", outlet M22

PART #	LIST PRICE
DX5190	---

SPRAY GUN WITH EXTENSION*

Rrear entry spray gun with 12" extension, 5075psi, 10.5gpm, 300F max, inlet 3/8", outlet M22

PART #	LIST PRICE
DX5197	---

*Requires a 86-005 for MEG Nozzle and a 86-005 & 86-030 for QD Nozzle

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

QUICK DISCONNECTS

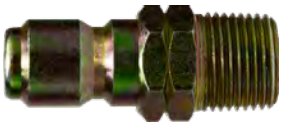
- Brass couplers have brass bodies and brass valves, 8 steel locking balls, Buna-N seal, and stainless steel springs
- Stainless steel couplers have stainless steel bodies, 8 stainless steel locking balls, Buna-N seal, and stainless steel springs
- Plugs are steel with green blue zinc plating or stainless steel
- Straight through design means there is no positive shut-off after disconnect
- Fully interchangeable with Parker, Hansen, Foster and Adams
- Use with liquids, hydraulic service, compressed air, gases, water and vacuum
- Ideal for applications such as high pressure water, steam washers, and carpet cleaners
- Max. Temp. 212°F for Couplers/ 300°F for Plugs
- Max Flow: 10.5 GPM

STRAIGHT THROUGH STYLE

MALE BRASS COUPLERS

PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86030	1/4	1/4	4000	---
86031	3/8	3/8	4000	---
86032	1/2	1/2	4000	---

MALE STEEL PLUGS

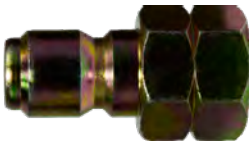


PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86040	1/4	1/4	4000	---
86041	3/8	3/8	4000	---
86042	1/2	1/2	4000	---

FEMALE BRASS COUPLERS

PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86035	1/4	1/4	4000	---
86036	3/8	3/8	4000	---
86037	1/2	1/2	4000	---

FEMALE STEEL PLUGS



PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86045	1/4	1/4	4000	---
86046	3/8	3/8	4000	---
86047	1/2	1/2	4000	---

MALE STAINLESS STEEL COUPLERS

PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86030SS	1/4	1/4	6000	---
86031SS	3/8	3/8	6000	---

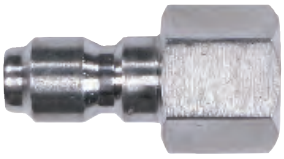
MALE STAINLESS STEEL PLUGS

PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86040SS	1/4	1/4	6000	---
86041SS	3/8	3/8	6000	---

FEMALE STAINLESS STEEL COUPLERS

PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86035SS	1/4	1/4	6000	---
86036SS	3/8	3/8	6000	---

FEMALE STAINLESS STEEL PLUGS



PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86045SS	1/4	1/4	6000	---
86046SS	3/8	3/8	6000	---

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COUPLERS/ KNOBS
HIGH PRESSURE SPRAYER

MOLDED GRIP MALE BRASS COUPLER

PART #	THREAD SIZE	THREAD SIZE	PSI	LIST PRICE
86030RG	1/4	1/4	4000	---
86031RG	3/8	3/8	4000	---

MOLDED GRIP FEMALE BRASS COUPLER

PART #	THREAD SIZE	PLUG	PSI	LIST PRICE
86035RG	1/4	1/4	4000	---
86036RG	3/8	3/8	4000	---

M22 SCREW TYPE X MNPT

PART #	THREAD SIZE	MALE	PSI	LIST PRICE
86001	M22	1/4	4000	---
86002	M22	3/8	4000	---

M22 SCREW TYPE X FNPT

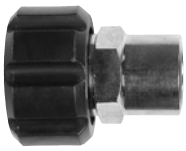
PART #	THREAD SIZE	FEMALE SIZE	PSI	LIST PRICE
86005	M22	1/4	4000	---
86006	M22	3/8	4000	---

INSULATED KNOB

M22 INSULATED KNOB X MNPT

PART #	THREAD SIZE	MALE SIZE	PSI	LIST PRICE
86012	M22	1/4	4000	---
86013	M22	3/8	4000	---

M22 INSULATED KNOB X FNPT

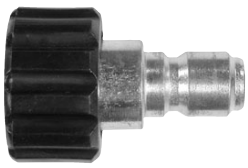


PART #	THREAD SIZE	FEMALE SIZE	PSI	LIST PRICE
86017	M22	1/4	4000	---
86018	M22	3/8	4000	---

M22 X M22 FNPT

PART #	THREAD SIZE	THREAD SIZE	PSI	LIST PRICE
86022	M22	M22	4000	---

M22 INSULATED KNOB X QC PLUG



PART #	THREAD SIZE	PLUG	PSI	LIST PRICE
86020	M22	3/8	4000	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PNEUMATICS

1/4" INDUSTRIAL	3/8" INTERCHANGE	1/2"	1/4" ARO	1/4" AUTO	3/8" AUTO	1/4" LINCOLN	1/4" STRAIGHT THRU	3/8" STRAIGHT THRU

QUICK DISCONNECTS

- Universal
- ARO 210
- Lincoln
- Industrial
- Automotive
- ST Series - High Flow

BREATHER VENTS, MUFFLERS

- Mufflers
- Snubbers
- In-line filters
- Breather vents
- Control valves
- Manifolds

PNEUMATIC ACCESSORIES

- Kits NEW
- Tire gauge
- Tank and vent valves
- Blow guns
- Air chucks
- Inflators

GAUGES

- Liquid filled & Dry
- Lower mount & center mount
- Water test
- Syphons

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INDUSTRIAL INTERCHANGE

- Couplers are brass or plated steel body with brass or steel valves, 6 steel locking balls, NBR seal and stainless steel springs

6 Steel locking balls (1/2" body size has 8 steel locking balls)

- Plugs are brass or steel with green blue zinc plating
- Industry standard design for compressed air, water, grease, paint, limited vacuum and limited gases
- Manual retract for connecting and disconnecting
- Maximum working pressure is 250 PSI

BRASS FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28540	1/4"	1/4"	---
28541	1/4"	3/8"	---

BRASS MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28552	1/4"	1/4"	---
28553	1/4"	3/8"	---

STEEL FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28540S	1/4"	1/4"	---
28541S	1/4"	3/8"	---
98810	3/8"	1/4"	---
98811	3/8"	3/8"	---
98812	3/8"	1/2"	---
99812	1/2"	1/2"	---

STEEL MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28552S	1/4"	1/4"	---
28553S	1/4"	3/8"	---
98823	3/8"	1/4"	---
98824	3/8"	3/8"	---
98825	3/8"	1/2"	---
99825	1/2"	1/2"	---
99826	1/2"	3/4"	---

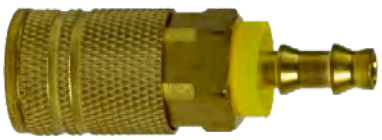
BRASS HOSE ID COUPLER

PART#	BODY SIZE	BARB SIZE	LIST PRICE
28562	1/4"	1/4"	---
28564	1/4"	3/8"	---

STEEL HOSE ID COUPLER

PART#	BODY SIZE	BARB SIZE	LIST PRICE
28562S	1/4"	1/4"	---
28564S	1/4"	3/8"	---
98840	3/8"	1/4"	---
98841	3/8"	3/8"	---
99841	1/2"	3/8"	---
99843	1/2"	1/2"	---

BRASS PUSH-ON HOSE COUPLER



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28565	1/4"	1/4"	---
28566	1/4"	3/8"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

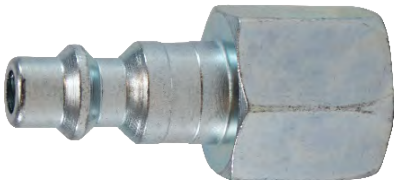
STEEL PUSH-ON HOSE COUPLER

PART#	BODY SIZE	BARB SIZE	LIST PRICE
28565S	1/4"	1/4"	---
28566S	1/4"	3/8"	---
98842	3/8"	3/8"	---

STEEL MALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28545	1/4"	1/8"	---
28546	1/4"	1/4"	---
28547	1/4"	3/8"	---
98814	3/8"	1/4"	---
98815	3/8"	3/8"	---
99816	1/2"	1/2"	---
99817	1/2"	3/4"	---

STEEL FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28533	1/4"	1/8"	---
28534	1/4"	1/4"	---
28535	1/4"	3/8"	---
98801	3/8"	1/4"	---
98802	3/8"	3/8"	---
99803	1/2"	1/2"	---
99804	1/2"	3/4"	---

BRASS MALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28546B	1/4"	1/4"	---

BRASS FEMALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28534B	1/4"	1/4"	---

STEEL HOSE ID PLUG

PART#	BODY SIZE	BARB SIZE	LIST PRICE
28557	1/4"	1/4"	---
28559	1/4"	3/8"	---
98828	3/8"	3/8"	---
99828	1/2"	3/8"	---
99830	1/2"	1/2"	---

STEEL PUSH-ON HOSE PLUG

PART#	BODY SIZE	BARB SIZE	LIST PRICE
28558	1/4"	1/4"	---
28561	1/4"	3/8"	---
98830	3/8"	3/8"	---

STEEL SWIVEL MALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
320065	1/4"	1/4"	---

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For more information, visit www.P65Warnings.ca.gov

UNIVERSAL SERIES COUPLERS

- Automatic Coupler means flow will cut off automatically at time of disconnect
- Brass Couplers have brass body and brass sleeve with brass valve, 6 steel locking balls, NBR seal and 6 stainless steel springs.
- Stainless Steel Couplers have stainless steel body and stainless steel sleeve with stainless steel valve, 6 steel locking balls, FKM seal, and stainless steel springs
- Coupler compatible with ARO 210, Parker Interchange and Industrial Interchange plugs
- Maximum working pressure is 250 PSI

BRASS MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28579	1/4"	1/4"	---
28589	1/4"	3/8"	---

BRASS FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28560	1/4"	1/4"	---

BRASS HOSE ID COUPLER

PART#	BODY SIZE	BARB SIZE	LIST PRICE
28690	1/4"	1/4"	---
28691	1/4"	3/8"	---

STAINLESS STEEL MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28579SS	1/4"	1/4"	---

STAINLESS STEEL FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28560SS	1/4"	1/4"	---

STAINLESS STEEL INDUSTRIAL MALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28546SS	1/4"	1/4"	---

STAINLESS STEEL INDUSTRIAL FEMALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28534SS	1/4"	1/4"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ARO 210 INTERCHANGE

- Couplers have brass bodies and brass valves, 6 steel locking balls, NBR seal, and stainless steel springs
- Plugs are steel with green blue zinc plating
- Couplers have a full opening tubular valve for maximum flow and a built-in sleeve guard to minimize accidental disconnect
- Maximum working pressure is 250 PSI

MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28592	1/4"	1/8"	---
28593	1/4"	1/4"	---
28594	1/4"	3/8"	---

MALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28586	1/4"	1/8"	---
28587	1/4"	1/4"	---

FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28583	1/4"	1/8"	---
28584	1/4"	1/4"	---

FEMALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28578	1/4"	1/4"	---

HOSE ID COUPLER

PART#	BODY SIZE	BARB SIZE	LIST PRICE
28601	1/4"	1/4"	---
28603	1/4"	3/8"	---

HOSE ID PLUG

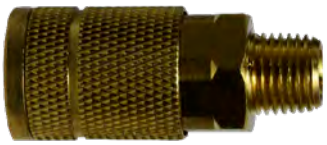
PART#	BODY SIZE	BARB SIZE	LIST PRICE
28595	1/4"	1/4"	---
28597	1/4"	3/8"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AUTOMOTIVE/ PARKER INTERCHANGE (Tru-Flate)

- Brass couplers are brass bodies with brass valves, 6 steel locking balls, NBR seal, and stainless steel springs. Steel couplers are steel bodies with steel valves, 6 stainless steel locking balls, NBR seal, and stainless steel springs.
- Plugs are brass or steel with green blue zinc plating
- Unique design has been field proven as a long-lasting, high performance coupling especially when used with pneumatic tools
- Maximum working pressure is 300 PSI

BRASS MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28515	1/4"	1/8"	---
28516	1/4"	1/4"	---
28517	1/4"	3/8"	---

BRASS FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28507	1/4"	1/4"	---
28508	1/4"	3/8"	---

STEEL MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28516S	1/4"	1/4"	---
28514S	3/8"	1/4"	---
28519S	3/8"	3/8"	---

STEEL FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28507S	1/4"	1/4"	---
28525S	3/8"	1/4"	---

BRASS MALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28510B	1/4"	1/4"	---

BRASS FEMALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28501B	1/4"	1/4"	---

STEEL MALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28509	1/4"	1/8"	---
28510	1/4"	1/4"	---
28511	1/4"	3/8"	---
28512	3/8"	1/4"	---
28513	3/8"	3/8"	---

STEEL FEMALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28500	1/4"	1/8"	---
28501	1/4"	1/4"	---
28502	1/4"	3/8"	---
28503	3/8"	1/4"	---
28504	3/8"	3/8"	---

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AUTOMOTIVE/ PARKER INTERCHANGE

PNEUMATICS

HOSE ID COUPLER

PART#	BODY SIZE	BARB SIZE	LIST PRICE
28528	1/4"	1/4"	---
28530	1/4"	3/8"	---
28536	3/8"	1/4"	---

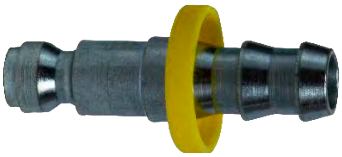
HOSE ID PLUG

PART#	BODY SIZE	BARB SIZE	LIST PRICE
28518	1/4"	1/4"	---
28520	1/4"	3/8"	---
28523	3/8"	1/4"	---
28524	3/8"	3/8"	---

PUSH-ON HOSE COUPLER

PART#	BODY SIZE	BARB SIZE	LIST PRICE
28531	1/4"	1/4"	---
28532	1/4"	3/8"	---

PUSH-ON HOSE PLUG



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28521	1/4"	1/4"	---
28522	1/4"	3/8"	---

LINCOLN INTERCHANGE

- Couplers have brass bodies with steel sleeves, Acetal valves, 6 steel locking balls, Nitrile seal and stainless steel springs
- Plugs are steel with green blue zinc plating
- Manual style
- Unique design includes long nose and short ball groove
- Maximum working pressure is 250 PSI

MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28683	1/4"	1/4"	---

STEEL MALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28685	1/4"	1/8"	---
28686	1/4"	1/4"	---

FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28684	1/4"	1/4"	---

STEEL FEMALE PLUG

PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28687	1/4"	1/4"	---

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COUPLERS
PNEUMATICS

ST SERIES...HIGH FLOW

SPECIFICATIONS

Brass - Coupler & Steel Plug	
Temperature Range	-40° to 250°

- Non-valved couplings for applications where maximum flow is required. Ideal for applications such as high pressure water and steam washers, carpet cleaners and mold coolant lines. They are often used in food processing, on fluid and dye transfer lines.
- Standard seals are Buna-N (Nitrile).

MALE PIPE COUPLER
BRASS

PART #	BODY & THREAD SIZE	LIST
28667	1/8"	---
28665	1/4"	---
28666	3/8"	---
28668	1/2"	---
28669	3/4"	---
28670	1"	---

FEMALE PIPE COUPLER
BRASS

PART #	BODY & THREAD SIZE	LIST
28671	1/8"	---
28651	1/4"	---
28652	3/8"	---
28672	1/2"	---
28673	3/4"	---
28674	1"	

MALE PLUG
STEEL

PART #	SIZE	LIST PRICE
28675	1/8"	---
28639	1/4"	---
28640	3/8"	---
28676	1/2"	---
28677	3/4"	---

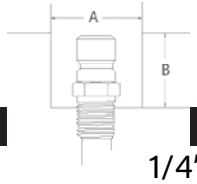
FEMALE PLUG
STEEL

PART #	SIZE	LIST PRICE
28688	1/8"	---
28619	1/4"	---
28620	3/8"	---
28679	1/2"	---
28680	3/4"	---
28681	1"	---

MOLD COOLANT-LINE QUICK COUPLERS

OPERATING PRESSURE:
200 PSIG (14.06 Kg/sq. cm)
Standard Seal:
SILICONE: -90°F to 400°F (-68°C to +

- coolant couplers are engineered for optimum speed and performance in connecting coolant lines to molds used for thermoplastic, thermosetting, blow molding, diecasting and on other types of tooling and equipment utilizing a constant fluid flow pumped through cooling



MALE PLUG (BRASS)

1/4" BASIC SIZE

PART #	SIZE	A	B	LIST PRICE
29900	1/8"	0.69	0.69	---
29901	1/4"	0.84	0.94	---
29902	3/8"	1.00	0.97	---

3/8" BASIC SIZE

PART #	SIZE	A	B	LIST PRICE
29906	1/4"	1.00	0.94	----
29907	3/8"	1.00	1.13	----
29908	1/2"	1.81	1.25	----

1/2" BASIC SIZE

PART #	SIZE	A	B	LIST PRICE
29911	1/2"	1.25	1.50	---
29912	3/4"	1.50	1.56	---

FEMALE PLUG (STEEL)

1/4" BASIC SIZE

PART #	SIZE	LIST PRICE
29903	1/8"	---
29904	1/4"	---
29905	3/8"	---

3/8" BASIC SIZE

PART #	SIZE	LIST PRICE
29909	1/4"	---
29910	3/8"	---

1/2" BASIC SIZE

PART #	SIZE	LIST PRICE
29913	1/2"	---
29914	3/4"	---

MINI TYPE QUICK DISCONNECTS

MALE COUPLER

PART #	SIZE	LIST PRICE
28605	1/8"	---

FEMALE PLUG

PART #	SIZE	LIST PRICE
28608	1/8"	---

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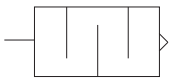
BRASS MUFFLERS

Materials:
Body: Brass
Element: Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 300°F
• Application: Designed to diffuse Air & Muffler noise to acceptable levels within OSHA noise requirements.
• Used on exhaust ports, valves, cylinders and air tools.
• Construction: Porous sintered bronze 40 micron filter element secured to a brass body

PART #	SIZE	LIST PRICE
300020	10/32"	---
300021	1/8"	---
300022	1/4"	---
300023	3/8"	---
300024	1/2"	---
300026	3/4"	---
300028	1"	---

40 Micron element

STAINLESS MUFFLERS



Materials:
Body: 303 Grade Stainless Steel
Element: 316 Grade Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 392°F

PART #	SIZE	LIST PRICE
300031	10/32"	---
300032	1/8"	---
300033	1/4"	---
300034	3/8"	---
300035	1/2"	---
300036	3/4"	---
300037	1"	---

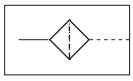
BRASS BREATHER VENT

Materials:
Body: Brass
Element: Sintered Bronze
Max Operating Pressure: 150PSI
Temperature: 35° to 300°F
• Application: Prevents Dirt and Foreign Particles from Entering Ports Open to Atmosphere. Typically used on Acting Cylinders
• Additional Use is Vacuum Relief or Pressure Equalization on Storage Vessels or Tanks
• Construction: Porous Sintered Bronzed 40 Micron Filter Element Secured to a brass body

PART #	SIZE	LIST PRICE
300000	10-32"	---
300001	1/8"	---
300002	1/4"	---
300003	3/8"	---
300004	1/2"	---
300006	3/4"	---
300008	1"	---

40 Micron element

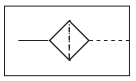
STAINLESS BREATHER VENT



Materials:
Body: 303 Grade Stainless Steel
Element:316 Grade Stainless Steel
Max Operating Pressure: 150PSI
Temperature: 35° to 390°F

PART #	SIZE	LIST PRICE
300014	1/8"	---
300015	1/4"	---
300017	3/8"	---
300018	1/2"	---
300019	3/4"	---
300007	1"	---

PRESSURE SNUBBER

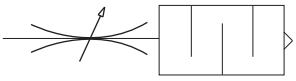


Materials:
Body: Brass
Element: Sintered Bronze
Max Operating Pressure: 9000PSI
Temperature: 35° to 300°F
• Applications: Protect pressure instruments from sudden pressure surges and fluctuations providing more accurate gauge readings
• Construction: Solid brass housing with porous bronze element
• Can be used for mini in-line filters
• 5 different porosity elements per package, allows each user to adjust snubbing capacity for the specific application

PART #	SIZE	POROSITY	LIST
28354	1/4"	40 um	---
28353	1/4"	30 um	---
28352	1/4"	25 um	---
28351	1/4"	20 um	---
28350	1/4"	10 um	---

Recommended Element Porosity Rating		
Rating	Color	Recommended Application
40 um	None	Viscous Fluids (over 500 ssu)

SPEED CONTROL VALVE



Materials:
Body: Brass
Element: 40 Micron Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 300°F
• Application: Provide infinite variation of metering air flow at acceptable sound levels on air valve exhaust ports with complete safety
• The speed of an operating cylinder or air tool may be increased or decreased with the adjusting screw, the final position is locked in place by a lock nut
• Objectionable exhaust air noise is eliminated by the surrounding sleeve - 40 µm sintered bronze
• Brass Body
• Max operating pressure: 300PSI
• Operating temperature: 35° F to 300° F

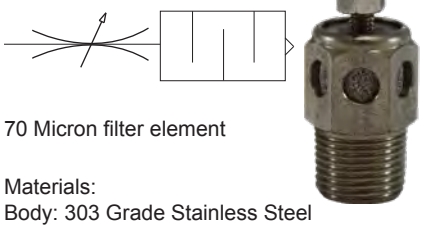
PART #	SIZE	LIST PRICE
940800	1/8"	---
940801	1/4"	---
940803	3/8"	---
940804	1/2"	---
940805	3/4"	---
940806	1"	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

VALVES/ MUFFLERS/ FILTERS

PNEUMATICS

STAINLESS SPEED CONTROL VALVE

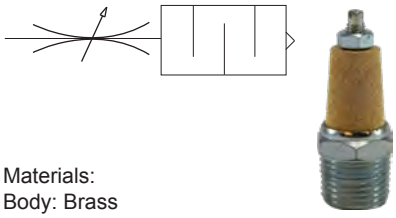


70 Micron filter element

Materials:
Body: 303 Grade Stainless Steel
Element: 316 Grade Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 392°F

PART #	SIZE	LIST PRICE
940810	1/8"	---
940811	1/4"	---
940812	3/8"	---
940813	1/2"	---
940814	3/4"	---
940815	1"	---

MUFFLER W/ FLOW ADJUSTMENT

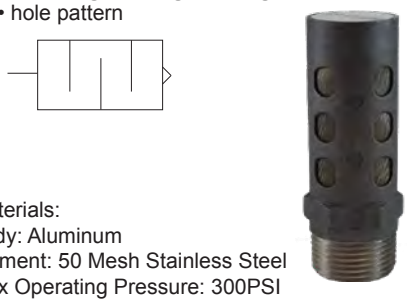


Materials:
Body: Brass
Element: Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 300°F

PART #	SIZE	LIST PRICE
28379	1/8"	---
28380	1/4"	---
28381	3/8"	---
28382	1/2"	---

HIGH FLOW ALUMINUM MUFFLER

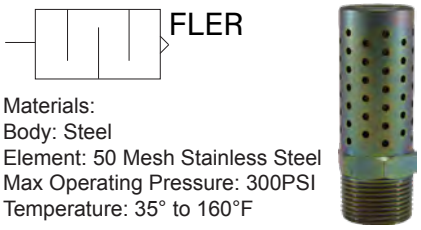
• hole pattern



Materials:
Body: Aluminum
Element: 50 Mesh Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 160°F

PART #	SIZE	LIST PRICE
940822	1/8"	---
940823	1/4"	---
940824	3/8"	---
940825	1/2"	---
940826	3/4"	---
940827	1"	---

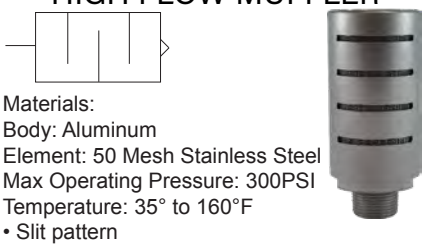
HIGH FLOW STEEL MUFFLER



Materials:
Body: Steel
Element: 50 Mesh Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 160°F

PART #	SIZE	LIST PRICE
28373	1/8"	---
28374	1/4"	---
28375	3/8"	---
28376	1/2"	---
28377	3/4"	---
28378	1"	---

ALUMINUM HIGH FLOW MUFFLER



Materials:
Body: Aluminum
Element: 50 Mesh Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 160°F
• Slit pattern
• Application: Used exhaust ports of Pneumatic valves or manifolds to reduce work area noise
• Construction: Aluminum body, 50 mesh self cleaning stainless steel screen corrosion resistant aluminum shell
• High flow & minimal back pressure

PART #	SIZE	LIST PRICE
28367	1/8"	---
28368	1/4"	---
28369	3/8"	---
28370	1/2"	---
28371	3/4"	---
28372	1"	---

PLASTIC HIGH FLOW MUFFLER

Materials:
Body: Black Nylon
Element:50 Mesh Stainless Steel
Max Operating Pressure: 150PSI
Temperature: 35° to 120°F

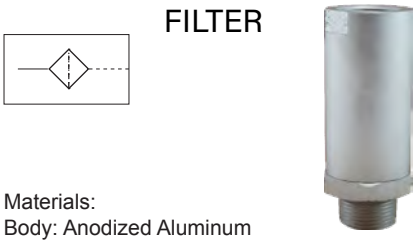
PART #	SIZE	LIST PRICE
28363	1/8"	---
28364	1/4"	---
28365	3/8"	---
28366	1/2"	---

NIPPLE INLINE FILTER

Materials:
Body: Brass
Element: 40 Micron Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 300°F

PART #	SIZE	LIST PRICE
940845	1/8"	---
940846	1/4"	---
940847	3/8"	---
940848	1/2"	---

REPAIRABLE AIR/ OIL INLINE FILTER



Materials:
Body: Anodized Aluminum
Element: 40 Micron Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 200°F
• Application: Protect small air tools i.e. impact wrench grinders, screwdrivers and low pressure hydraulic applications
• Construction: All anodized, lightweight aluminum housing
• Can be installed directly before the air tool
• Features cleanable or replaceable 40 micron filter element

PART #	SIZE	LIST PRICE
940840	1/8"	---
940841	1/4"	---
940842	3/8"	---
940843	1/2"	---
940844	3/4"	---

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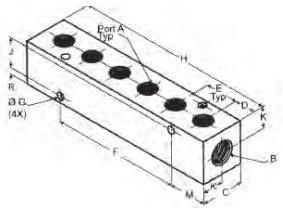
MANIFOLDS

MANIFOLDS - ALUMINUM WITH BLACK ANODIZING

Materials:
Aluminum with black anodizing for corrosion resistance.
Specifications:
Max Operating Pressure: 1000PSI
Temperature: -10° to 200°F
Media: Air and liquids compatible with materials of construction.
• Ports column = # of ports in top of manifold



THREADED PORTS

Part #	Ports	List Price	A - out NPT	B - in NPT	C	D	E	F	G	H	J	K	M	R
28450	4	----	1/8"	1/4"	1.00	0.50	0.75	1.5	0.17	3.25	0.70	0.50	0.88	0.15
28452	6	---						3.00		4.75				
28456	10	---						6.00		7.75				
28458	3	----	1/4"	3/8"	1.25	0.63	0.88	0.88	0.20	3.00	0.89	0.63	1.06	0.18
28460	5	---						2.63		4.75				
28464	9	----						6.13		8.25				
28465	10	----						7.00		9.13				
28467	3	----	3/8"	3/8"	1.25	1.00	1.13	1.13	0.20	4.25	0.89	0.63	1.56	0.18
28468	4	----						2.25		5.38				
28469	5	----						3.38		6.50				
28470	6	---						4.50		7.63				

3 IN 1 ALUMINUM AIR MANIFOLD

No need to connect and disconnect every time you want to change tools. Supply 3 air tools from one outlet. These manifolds have one inlet with three 1/4 outlets.

PART #	SIZE	LIST PRICE
320120	1/4" Inlet	---
320121	3/8" Inlet	---
320122	1/2" Inlet	---
three 1/4" Outlets		

AIR REGULATOR

- Rated for Inlet Pressrue up to 140PSI(10bar).
- Ambient and Fluid Tempreature:5~60°C(41~140°F)
- Port Threads:NPT
- Flow Capacity:See Below,at 0.7Mpa Inlet Pressure and set at 0.5Mpa.
- Assembly Bracket is included.

PART #	SIZE	GAUGE PORT	REGULATING RANGE	LIST PRICE
AR2	1/4"	1/8	0.05~0.85Mpa(0.5~8.5kgf/cm2)(7.25psi~123psi)	---

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For more information, visit www.P65Warnings.ca.gov

SAFETY VALVES

ASME CODED

- Valves are manufactured to ASME standards and certified by the national board of boiler and pressure vessel inspectors.
- Bubble tight to 10% of set pop-off pressure.
- ASME safety valves are interchangeable with all other ASME valves of same size and pressure.
- Brass construction. Marked ASME, NB
- 1/ Blister card.

PART #	MALE NPT	POP-OFF PRESSURE	AIR FLOW	LIST PRICE
87001	1/4"	70 PSI	70 CFM	---
87002	1/4"	125 PSI	120 CFM	---
87003	1/4"	150 PSI	140 CFM	---
87004	1/4"	200 PSI	170 CFM	---

Note: Valve resets after pressure drops 50%

NON-CODED SAFETY RELIEF VALVES

- Non-coded safety valves are constructed of the same materials as the AMSE safety valves but are not national board certified and cannot be used on applications requiring ASME components.
- Valves are equipped with a lift ring for instant relief and are staked at the factory at the pre set pop-off pressure.
- Marked ASME, UV, NB

PART #	MALE NPT	POP-OFF PRESSURE	LIST PRICE
87008	1/4"	125 PSI	---
87009	1/4"	150 PSI	---

Warning: These valves are not to be used on compressors with a capacity over 15 CFM or 3 HP or 12 gallon storage tank.

COMPRESSOR TANK CHECK VALVES

- Used in compressor tanks to prevent air volume and pressure from escaping back into compressor heads while the compressor is not operating.
- Brass body with Teflon poppet.
- 1/8" Female NPT side port for pressure switch application.
- Maximum working pressure: 450 PSI
- Maximum temperature: 400°F

PART #	TANK BUNG HOLE SIZE	COMPRESSOR AIR LINE SIZE	SCFM	LIST PRICE
87020	1/2" NPT Male	3/8" Tube Compression male	20	---
87021	1/2" NPT Male	1/2" Tube Compression male	20	---
87023	1/2" NPT Male	1/2" NPT Female	20	---

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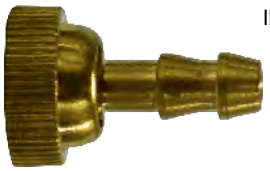
tank valves

BRASS BICYCLE PUMP FITTING

Screw on swivel chuck for most hand operated tire pumps.
Buna-N-Seal • Deflator

INT x 3/16 Barb



PART #	SIZE	LIST PRICE
32782	3/16"	---

INFLATOR

INT x 3/16

PART #	SIZE	LIST PRICE
32783	3/16"	---

PNEUMATIC SLIDE VALVE

- Max Operating Pressure: 200 psig
- Temperatures:-20°F to +200°F

Manually operated slide valves provide simple on/off airflow control. They can be mounted horizontally, vertically or at any angle.

Open Position

MALE X FEMALE

PART #	SIZE	L	HEX	LIST PRICE
20780	1/8"	2.15	9/16"	---

INT = Inflation needle thread .305 in. OD x 32 threads per inch

TANK & VENT VALVES

Three standard styles of valve bodies, complete with short core, for air lifts, water pumps, vacuum, pressurized containers, air jacks, and other pneumatic devices.
REGULAR: 300 PSI and cracking pressure 80 PSI

1/8" NPT - .9" LONG SPRING CORE

7/16" Hex

1/8 x INT

PART #	SIZE	LIST PRICE
46620	1/8	---

1/8" NPT 1.207"LONG SPRING CORE

7/16" Hex

1/8 x INT

PART #	SIZE	LIST PRICE
46621	1/8	---

1/4" NPT 1.46" LONG SPRING CORE

9/16" Hex

w/ Black cap

1/4 x INT

PART #	SIZE	LIST PRICE
46622	1/4	---

TANK VALVE ACCESSORIES

BLACK PLASTIC CAP

No gasket

Inflation needle theads

PART #	LIST PRICE
46630	---

SHORT NICKEL PLATED DOME CAP

Dome skirted type

Inflation needle thead

PART #	LIST PRICE
46631	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BLOW GUNS/ NOZZLES
PNEUMATICS

COMPACT BLOW GUN W/RUBBER TIP

- Includes One Rubber Tip and One Safety Tip
- Zinc Alloy Body
- 1/4" FPT Inlet
- Maximum 150 psi (Recommended Working Pressure 90-120 psi)
- Safety Tip Limits Air Pressure to 30 psi When Dead-Ended per OSHA requirement
- Maximum 87 dba
- 1/8" Outlet

PART #	SIZE	LIST PRICE
320053	1/4"	---

SAFETY BLOW GUN

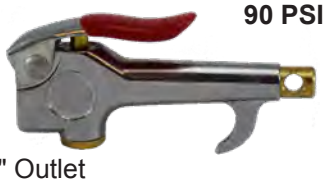
- Heavy-Duty Design
- Internal Safety Valve that Limits Air Pressure to Less than 30 psi When dead-ended per OSHA
- Aluminium Alloy Body
- 1/4" FPT Inlet
- Maximum 150 psi (Recommended Working Pressure 90-120 psi)
- Safety Tip Limits Air Pressure to 30 psi When Dead-Ended per OSHA Requirement
- Maximum 87 dba
- 1/8" Outlet

PART #	SIZE	LIST PRICE
320054	1/4"	---

SAFETY BLOW GUN

- N/P steel handle with plastic sleeve
- Brass Valve
- Zinc body
- Aluminum nozzle

90 PSI



1/8" Outlet

PART #	SIZE	LIST PRICE
320050	1/4" Inlet	---

5114 **51-124** 401 **20430AD** S148 **D204-30** 6475

COMPACT BLOW GUN

- With standard tip and safety tip
- Zinc Alloy Body
- 1/4" FPT Inlet
- Maximum 150 psi (Recommended Working Pressure 90-120 psi)
- Safety Tip Limits Air Pressure to 30 psi When Dead-Ended per OSHA Requirement
- Maximum 87 dba

PART #	SIZE	LIST PRICE
320055	1/4"	---

PISTOL GRIP BLOW GUN

- Lightweight, Ergonomic Design
- Delrin® Body
- Trigger Air Flow Control
- 1/4" FPT Inlet
- 3" Nozzle Ideal for Tight Spaces
- Recommended Working Pressure 90-120 psi
- Maximum 87 Dba

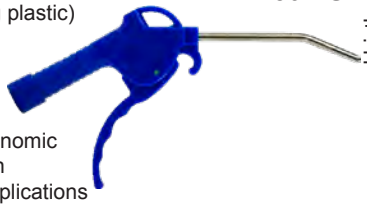
PART #	SIZE	LIST PRICE
320036	1/4"	---

PISTOL GRIP BLO-GUN

150 PSI

Material
- Body: POM (engineering plastic)
- Nozzle: nickel plated carbon steel
- Blue Handle Color

Features
- Simple construction, economic
- Global thread connection
- Durable and versatile applications
- 4 inch nozzle



PART #	SIZE	LIST PRICE
320035	1/4"	---

RUBBER TIPPED NOZZLE

MAKES POSITIVE SEAL BETWEEN GUN AND FUEL LINE OR OTHER OPENINGS. USE ONLY ON AIR LINE REGULATED TO 30 PSI OR LESS

PART #	THREAD SIZE	LIST PRICE
320070	1/8 - 27	---

51-521 **2058** D201RT **411R**

HIGH FLOW SAFETY NOZZLE

MEETS OSHA REGULATIONS OF 30 PSI MAXIMUM OUTLET PRESSURE WHEN LINE PRESSURE IS 150 PSI OR LESS. HAS AN AIR PRESSURE BYPASS WHICH PREVENTS BUILD UP OF TIP PRESSURE EVEN IF NOZZLE IS BLOCKED. ADAPTS TO ANY BLOW GUN WITH A 1/8"

PART #	SIZE	LIST PRICE
320075	1/8 MIP x Female Neelde Thread	---

51-338 **SST10** 411BT **2056**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

tire gauges

M - TIRE GAUGE

320-021

HEAVY DUTY DUAL FOOT TIRE GAUGE

320-022

DUAL ANGLE FOOT TRUCK PENCIL GAUGE

320-023

PART #	PRESSURE RANGE	INCREMENT	HEAD	BODY	BAR(PSI/KPA)	LIST PRICE
320021	20-120psi	2 psi	Metal	Metal	4 sided plastic	---
320022	10-120psi	2 psi	Plastic	Metal	4 sided plastic	---
320023	20-120psi	2 psi	Metal	Metal	4 sided plastic	---

INFLATION NEEDLE

• See thread note below

PART #	LIST PRICE
320095	---

1 PIECE BLOW GUN TAPERED NOZZLE

PART #	SIZE	LIST PRICE
320076	NT	---

1 PIECE BLOW GUN STANDARD NOZZLE

PART #	SIZE	LIST PRICE
320077		---

VOLUME REGULATOR

PART #	FIP X MIP	LIST PRICE
46615	1/4	---

What size thread is an inflation needle (INT)?
Metric: 7.7mm OD, thread reoot diameter is 6.9mm x 0.794 pitch
English: 0.305 OD, threadroot diameter 0.302 in x 32 tpi (threads per inch)

1 PIECE DIAL TIRE GAUGE

PART #	LIST PRICE
320410	---

1 PIECE EXTENSION

PART #	SIZE	LIST PRICE
320080	NT	---

1 PIECE BLOW GUN ADAPTER

PART #	SIZE	LIST PRICE
320078	Female NT x 1/8 MPT	---

NYLON COIL AIR HOSE

- 200 psi working pressure
- 4:1 Safety factor (burst vs working pressure)
- Spring end sleeves to prevent kinking
- 1/4 MPT Brass fittings on both ends
- Temperature range 32°F to 120°F
- Packaged for retail sale

PART #	DESCRIPTION	SIZE	LIST PRICE
307030	25'	1/4" NPT	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

foot chucks

HEX BALL FOOT CHUCK

PART #		LIST PRICE
46600	1/4 FPT Live Air	---

MALE BALL FOOT CHUCK

PART #		LIST PRICE
46605	1/4 MIP Live Air	---

BALL FOOT CHUCK W/ 1/4 ID HOSE BARB

PART #		LIST PRICE
46607	1/4 ID Live Air	---

DUAL HEAD STRAIGHT AIR CHUCK

DUAL HEAD AIR CHUCK 1/4"FNPT,THE LENGTH IS 6.08",THE HEAD IS ZINC-ALLOY,AND THE NUT IS BRASS WITH CHROME PLATED.

PART #		LIST PRICE
320000	1/4	---

DUAL HEAD ANGLE FOOT AIR CHUCK

DUAL HEAD STRAIGHT FOOT AIR CHUCK 1/4"FNPT FOR INNER DUALS;BOTH ENDS LOCK ON VALVE CORE THREADS,THE LENGTH IS 6.66",THE HEAD IS ZINC-ALLOY,AND THE NUT IS BRASS WITH CHROME PLATED.

PART #		LIST PRICE
320005	1/4	---

INFLATORS WITH GAUGE

INFLATOR/ GAUGE

- RUGGED ZINC CAST BODY WITH BRASS INTERNALS FOR LONG LIFE
- SOLID BRASS GAUGE BAR
- BUILT-IN AIR RELIEF VALVE
- 6"DUAL-FOOT AIR CHUCK

320-010

INFLATOR/ GAUGE

- RUGGED ZINC CAST BODY WITH BRASS INTERNALS FOR LONG LIFE
- EASY TO VIEW BUILT-IN SIGHT GAUGE
- FULL SWIVEL HOSE FITTINGS
- PROTECTIVE RUBBER BUMPER
- BUILT-IN AIR RELIEF VALVE
- 6"DUAL-FOOT AIR CHUCK

320-011

PART #	PRESSURE RANGE	INCREMENT	INLET	HOSE LENGTH	LIST PRICE
320010	10-120 psi	2 psi	1/4 FPT	12"	---
320011	10-120 psi	2 psi	1/4 FPT	12"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR ACCESSORY SET

PNEUMATICS

16PCS-AIR ACCESSORY SET

PART# 87-400

LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"FNPT industrial coupler	28540
2pcs-1/4"FNPT industrial plugs	28534
2pcs-1/4"MNPT industrial plugs	28546
1pc-1/4" male connector	28212
1pc-1/4" double female connector	28059
1pc-ball foot chuck	46600
1pc-blow gun	320050
1pc-dial tire gauge	320410
1pc-tapered rubber tip	320070
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
2pcs-inflation needles	320095
1pc-25ft. nylon recoil hose	307030

10PCS-AIR ACCESSORY SET

PART# 87-402

LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"female connector	28059
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-ball foot chuck	46605
1pc-blow gun	320050
1pc-1/4"FNPT industrial coupler	28540
1pc-1/4" FNPT industrial plug	28534
1pc-1/4"MNPT industrial plug	28546
2pcs-inflation needles	320095

7PCS-AIR ACCESSORY SET

PART# 87-404

LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-blow gun rubber tip	320070
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-extension	320080
1pc-blow gun	320050
2pcs-inflation needles	320095

11PCS-AIR ACCESSORY SET

PART# 87-406

LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-blow gun rubber tip	320070
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-blow gun standard nozzle	320077
1pc-blow gun adapter	320078
1pc-hose&chuck assembly	320414
1pc-blow gun	320050
1pc-inflation needle	320095
1pc-1/4"FNPT industrial coupler	28540
1pc-1/4" FNPT industrial plug	28534
1pc-1/4"MNPT industrial plug	28546

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR ACCESSORY SET
PNEUMATICS

17PCS-AIR ACCESSORY SET
PART# 87-408

LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4" double female connector	50004
2pcs-1/4" double male connectors	54044
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-dual-foot tire chuck	320005
1pc-tire gauge	320021
1pc-blow gun	320050
1pc-1/4" FNPT industrial coupler	28540S
2pcs-1/4" FNPT industrial plug	28534
4pcs-1/4" MNPT industrial plug	28546
2pcs-inflation needles	320095

12PCS-AIR ACCESSORY SET
PART# 87-410

LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-blow gun rubber nozzle	320070
1pc-ball foot tire chuck	46600
1pc-blow gun	320050
1pc-1/4"FNPT industrial coupler	28540
1pc-1/4" MNPT industrial coupler	28552
2pcs-1/4"FNPT industrial plug	28534B
2pcs-1/4"MNPT industrail plug	28546B
1pc-inflation needle	320095

20PCS-AIR ACCESSORY SET
PART# 87-412

LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-dual-foot tire chuck	320005
1pc-tire gauge	320021
1pc-blow gun rubber nozzle	320070
1pc-blow gun adapter	320078
1pc-1/4" double male connector	54044
1pc-1/4" double female connector	50004
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-thread seal tape	982107
1pc-blow gun	320050
2pcs-1/4"FNPT industrial coupler	28540S
2pcs-1/4"FNPT industrial plug	28534
3pcs-1/4"MNPT industrial plug	28546
2pcs-inflation needles	320095
1pc-1/4"x 25Ft coil Nylon hose	307030

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

1/4" X 1/4" NPT INDUSTRIAL 7PCS

PART# 87-414

LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
2pc-1/4"x1/4" FNPT T I/M coupler	28540S
2pcs-1/4"x1/4" FNPT I/M plugs	28534
2pcs-1/4"x1/4"MNPT I/M plugs	28546
1pc-double 1/4" MNPT fitting	54044

1/4" X 1/4" NPT INDUSTRIAL 5PCS

PART# 87-416

LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"x1/4"FNPT I/M coupler	28540S
4pc-1/4"X1/4" MNPT I/M plug	28546

1/4" X 1/4" NPT INDUSTRIAL 5PCS

PART# 87-418

LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"x1/4"FNPT I/M coupler	28540S
1pc-1/4"x1/4"FNPT I/M plug	28534
1pc-1/4"X1/4" MNPT I/M plug	28546
1pc-double 1/4" MNPT fitting	54044

1/4" X 1/4" NPT INDUSTRIAL 3PCS

PART# 87-420

LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"x1/4" FNPT I/M coupler	28540S
1pc-1/4"x1/4" FNPT I/M plug	28534
1pc-1/4"x1/4" MNPT I/M plug	28546

3/8" X 1/4" NPT AUTOMOTIVE 5PCS KIT

PART# 87-422

LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-3/8"x1/4" FNPT Automotive coupler	28525S
2pcs-3/8"x1/4"MNPT Automotive plugs	28512
1pc-double 1/4"MNPT fitting	28212
1pc-double 1/4"FNPT fitting	28059

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GAUGES

STANDARD DRY GAUGES

STEEL CASE

All the gauges supplied by us are designed for long, reliable service under rugged conditions.
Typical applications include compressors, filter regulators, water pumps, beverage dispensing equipment, hydraulic and pneumatic systems, and other applications, where the media does not corrode brass. ALL CONNECTIONS ARE BRASS.

1-1/2" FACE
1/8" NPT LOWER MOUNT

PART #	PSI	LIST PRICE
80501	0-15	---
80502	0-30	---
80503	0-60	---
80504	0-100	---
80505	0-160	---
80506	0-200	---

LOWER MOUNT

- Plastic lens (win-

2" FACE
1/4" LOWER MOUNT

PART #	PSI	LIST PRICE
80001	0-15	---
80002	0-30	---
80003	0-60	---
80004	0-100	---
80005	0-160	---
80006	0-200	---
80007	0-300	---

2-1/2" FACE
1/4" LOWER MOUNT

PART #	PSI	LIST PRICE
80031	0-15	---
80032	0-30	---
80033	0-60	---
80034	0-100	---
80035	0-160	---
80036	0-200	---

1-1/2" FACE
1/8" NPT CENTER BACK MOUNT

PART #	PSI	LIST PRICE
80511	0-15	---
80512	0-30	---
80513	0-60	---
80514	0-100	---
80515	0-160	---
80516	0-200	---

CENTER BACK MOUNT

2" FACE
1/4" CENTER BACK MOUNT

PART #	PSI	LIST PRICE
80301	0-15	---
80302	0-30	---
80303	0-60	---
80304	0-100	---
80305	0-160	---
80306	0-200	---

2-1/2" FACE
1/4" CENTER BACK MOUNT

PART #	PSI	LIST PRICE
80331	0-15	---
80332	0-30	---
80333	0-60	---
80334	0-100	---
80335	0-160	---
80336	0-200	---

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LIQUID FILLED GAUGES

STAINLESS CASE

Liquid filled gauges enhance the reliability and integrity of the measuring system for long periods. The glycerine filling helps dampen the effects of vibration and pulsation. It also lubricates the movement which extends the life of the gauge.

1-1/2" FACE
1/8" LOWER MOUNT

PART #	PSI	LIST PRICE
80601	0-15	---
80602	0-30	---
80603	0-60	---
80604	0-100	---
80605	0-160	---

- Liquid Filled Gauges with a stainless case are used for protection in harsh environments.
- Stainless Steel Case
- Copper Alloy Wetted parts
- Polycarbonate window
- ± 1.5% of span accuracy
- Temp. Range -104°F to 158°F

2-1/2" FACE
1/4" LOWER MOUNT

PART #	PSI	LIST PRICE
80061	0-15	---
80062	0-30	---
80063	0-60	---
80064	0-100	---
80065	0-160	---
80066	0-200	---
80067	0-300	---
80068	0-400	---
80069	0-600	---
80100	0-1000	---
80101	0-1500	---
80102	0-2000	---
80103	0-3000	---
80104	0-5000	---
80105	0-10000	---
80080	30-0 Vacuum	---
80081	-30 to +30	---

4" FACE
1/4" LOWER MOUNT

PART #	PSI	LIST PRICE
80463	0-100	---

CENTER BACK MOUNT

1-1/2" FACE
1/8" CENTER BACK MOUNT

PART #	PSI	LIST PRICE
80611	0-15	---
80612	0-30	---
80613	0-60	---
80614	0-100	---
80615	0-160	---

2-1/2" FACE
1/4" CENTER BACK MOUNT

PART #	PSI	LIST PRICE
80201	0-15	---
80202	0-30	---
80204	0-60	---
80203	0-160	---
80205	0-100	---
80206	0-200	---
80207	0-300	---
80208	0-400	---
80209	0-600	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GAUGES/ SYPHON
PNEUMATICS

Water Test Gauge

0-300 PSI DIAL
3/4" FEMALE HOSE CONNECTION

PART #	FACE SIZE	LIST PRICE
991249	2"	---
991250	2-1/2"	---

Water Test Gauge w/Lazy Hand (Maximum pointer)

2-1/2" GAUGE
0-300 PSI DIAL
3/4" FEMALE HOSE CONNECTION

Regular pressure hand pushes LAZY hand to peak operating or surge pressure point where it remains until you manually reset it. Excellent to determine if P/T valve is leaking from failure or if leaking is caused by surge of excessive pressures. (Attach gauge to Boiler Drain Valve overnight.) LAZY hand operates over entire gauge range of 0-300psi

PART #	LIST PRICE
991251	---

GAS TEST GAUGE

Pressure test residential and commerical pipe systems

PART #	FACE SIZE	LIST PRICE
GT15	0-15	---
GT30	0-30	---
GT60	0-60	---

BODY ONLY

PART #	FACE SIZE	LIST PRICE
991259	3/4" FIP x 1/4" TAP	---

SYPHON

BRASS

Syphons protect instruments from effects of hot pressure media commonly used in steam applications

PART #	SIZE	LIST PRICE
995210	1/4" 90°	---
995211	1/4" 180°	---
995212	1/4" 270°	---
995213	1/4" 360°	---

STEEL

Syphons protect instruments from effects of hot pressure media commonly used in steam applications

PART #	SIZE	LIST PRICE
995214	1/4" 90°	---
995215	1/4" 180°	---
995216	1/4" 270°	---
995217	1/4" 360°	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TAPES/ SEALANT

PNEUMATICS

PTFE THREAD SEAL TAPE

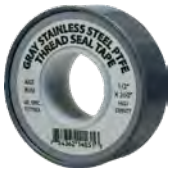
- Density 0.4
- Thickness 3.5 MIL
- Meets MIL specs T-27730A

PART #	SIZE	CASE QTY	LIST PRICE
982107	1/2" x 260"	500	---
982108	1/2" x 520"	500	---
982109	3/4" x 260"	350	---
982110	3/4" x 520"	350	---

POP OUT COVERED SPOOL

GREY STAINLESS STEEL

- Density 1.2
- Thickness 4MIL
- Meets MIL specs T-27730A & CID A-A 58092



PART #	SIZE	CASE QTY	LIST PRICE
982135	1/2" x 260"	250	---
982136	1/2" x 520"	150	---
982137	3/4" x 260"	150	---
982138	3/4" x 520"	150	---

GREEN OXYGEN TAPE

- Density 1.2
- Thickness 3.5MIL
- Meets MIL specs T-27730A & CID A-A 58092

PART #	SIZE	CASE QTY	LIST PRICE
982130	1/2" x 260"	250	---
982131	1/2" x 520"	150	---
982132	3/4" x 520"	150	---

PTFE BLUE SEAL TAPE

- Professional grade top -450 to +450°F
- Super long roll
- Twice the density of standard tape for less passes, lasts longer
- Density 0.8
- Thickness 3.5 MIL
- Meets MIL Spec T-27730A

PART #	SIZE	CASE QTY	LIST PRICE
982120	1/2" x 1368"	250	---
982121	3/4" x 1368"	150	---
982122	1" x 1296"	150	---

YELLOW GAS LINE TAPE

- Density 0.9
- Thickness 4MIL
- Meets MIL specs T-27730A

PART #	SIZE	CASE QTY	LIST PRICE
982125	1/2" x 260"	250	---
982126	1/2" x 520"	150	---

PVC ELECTRICAL TAPE

Rated to 176 degrees fahrenheit
Suitable for use up to 600V
UL Listed
Individually wrapped in cellophane

PART #	SIZE	LIST PRICE
982140	3/4" X 60' Black	---

THREAD SEALANT

GASOILA SOFT-SET THREAD

WITH PTFE

PART#	SIZE	UNITS PER CASE	LIST
983100	1/4 pt. Brush	24	---
983101	1/2 pt. Brush	24	---

PLS 2 PREMIUM THREAD

AND GASKET SEALER

PART#	SIZE	UNITS PER CASE	LIST
983110	1/4 pt. Brush	12	---
983111	1 pt. Brush	6	---

GASOILA NT NON-PTFE

THREAD SEALANT

PART#	SIZE	UNITS PER CASE	LIST PRICE
983120	1/2 pt. Brush	12	---
983121	1 pt. Brush	6	---

JC-30 GASOILA HIGH-FILL

PART#	SIZE	UNITS PER CASE	LIST PRICE
983115	1/4 pt. Brush	12	---
983116	1 pt. Brush	6	---

FREE ALL DEEP PENETRATING OIL

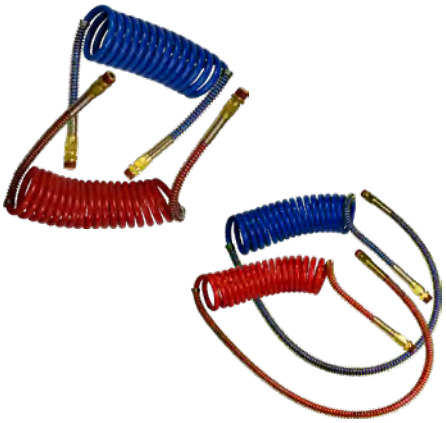
PART#	SIZE	UNITS PER CASE	LIST
983125	6 oz. Aerosol	12	---
983126	11 oz. Aerosol	12	---

LUBE-IT ALL DEEP LUBRI-

PART#	SIZE	UNITS PER CASE	LIST
983130	6 oz. Aerosol	12	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TRUCK AND TRAILER



INDUSTRY GRADE NYLON AIR COIL ASSEMBLY - SET

- Each kit contains one Emergency (Red) and one service (Blue) 1/2" O.D. nylon tubing assembly.
- 1/2" -14 NPTF end fitting with heavy gauge spring.
- Assemblies meet SAE J844 and DOT FMVSS 106 requirements.
- Temp rating -40° - +208°

PART #	LENGTH	PIGTAIL LENGTH TRACTOR END	PIGTAIL LENGTH TRAILER END	LIST PRICE
39404	12'	6"	6"	---
39400	15'	12"	12"	---
39402	15'	40"	12"	---
39406	20'	12"	12"	---

FIFTH WHEEL SLIDER COIL

- Temperatures range -40 to 208°F
- 150 psi max pressure rating
- Meets SAE J844 and DOT FMVSS 106 requirements.
- (2) ¼" OD fittings assembled

PART #	DESCRIPTION	LENGTH	FITTINGS	LIST PRICE
39839	5th Wheel slider coil	up to 54"	(2) 1/4" MPT	---
39838	5th Wheel slider coil	up to 72"	(2) 1/4" MPT	---

3-IN-1 AND 4-IN-1 COMBINATION AIRLINE CABLE

- (2) 3/8" ID SAE J1402 rubber service and emergency with blue (service) and red (emergency) gladhand grip handle
- Color-coded grip helps to minimize incorrect tractor/trailer connections have glad handle with Vibraseal
- ABS power line (green) – meets SAE J2222 requirements
- Auxiliary power line (yellow) – fitted with SAESS60 plugs that have an inverted (male) ground pin 4-in-1 only
- SAE J560 Plugs with sleeves for superior corrosion protection and strain relief
- Corrosion resistant all brass fittings 1/2" male NPT w/ Vibraseal
- Tapered grip flexes with airline during tight turns for kink protection
- Temp rating -40 - 208°F

PART #	DESCRIPTION	LIST PRICE
39825	Combo 3 in 1 assembly 15 ft.	---
39962	Combo 4 in 1 assembly 15 ft.	---

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hose support

AIRBRAKE HOSE REPAIR KIT

- Fittings to repair hose with a minimum 3/4" OD
- Meets DOT 106 SAE j1402
- Brass sleeve and barb
- Pre-applied sealant

PART #	DESCRIPTION	LIST PRICE
39855	3/8" Quick fix hose fitting	---
*39856	3/8" Quick fix hose kit- clam pack	---
39857	1/2" Quick fix hose fitting	---

*Supplied with hex tool

39425

39426

POGO STICKS CANNISTER STYLE

- Large diameter housing eliminates spring binding
- Increased resistance to sagging and bending
- Thick gauge heavy duty spring
- Used for all nylon and rubber air brake hose
- Forged steel mounting stud 7/16-20 thread
- All Pogo Sticks include Eyebolt and Nut

PART #	SIZE	DESCRIPTION	LIST PRICE
39425	40"	Chrome finish	---
39426	40"	Zinc Plated Steel	---

39409

39410

39411

39413

39416

39412

HOSE HOLDERS

- ABS Plastic
- 2, 3 and 4 Hold

PART #	SIZE	DESCRIPTION	LIST PRICE
39409	1/2"	2-Hose Holder Hex Head	---
39410	1/2"	2-Hose Holder	---
39411	1/2"	3-Hose Holder	---
39413	1/2"	3-Hose Hex Head w Cable tie	---
39416	1/2"	4-Hose V Bolt w Cable Tie	---
39412	1/2"	4-Hose Holder	---

39415

39418

HOSE SEPARATORS

- ABS Plastic

PART #	SIZE	DESCRIPTION	LIST PRICE
39414	3/8"	2-Hose Separator	---
39415	3/8"	4-Hose Separator	---
39418	1/2"	2-Hose Separator	---
39419	1/2"	4-Hose Separator	---

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HOSE SUPPORT
TRUCK AND TRAILER

39469

39472

39473

39411

TENDER KIT COMPONENTS

PART #	DESCRIPTION	LIST PRICE
39411	3 hole holder	---
39469	Clip Carabiner	---
39472	1-1/2" ID Hanger Bracket	---
39473	Yoke	---

• Sold individually

39477

39471

39463

SPRING WITH TANDEM FRAME CLIP

- Steel spring and clip - yellow dichromate finish
- 3/4" OD
- Beam clip

PART #	DESCRIPTION	LIST PRICE
39477	Frame Clip with Cable Tie	---

PART #	LENGTH	DESCRIPTION	LIST PRICE
39463	6" Spring	Tandem frame clip	---
39464	3" Spring	Tandem frame clip	---
39471	Frame clip only		---

95631

95640

CLIPS

PART #	DESCRIPTION	LIST PRICE
95631	ABS Clip for 1/2" Air Hose	---
95640	5" Axle Clip	---
95641	5-3/4" Axle Clip	---

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

TENDER KIT

Complete Tender Kit includes:

- Large snap Clip
- Heavy duty spring
- Protective tube

PART #	SPRING & TUBE LENGTH/ #PCS	ONE CLIP	3 HOLE CLAMP	YOKE	LIST PRICE
39442	16" / 1pc	1pc	1pc		---
39444	16" / 2 pcs	1pc	1pc	2pcs	---
39446	20"/ 1pc	1pc	1pc		---
39448	20"/ 2pcs	1pc	1pc	2pcs	---
39452	25" / 1pc	1pc	1pc		---
39453	25" / 2pcs	1pc	1pc	2pcs	---

HYDRAULIC TENDER KIT

PART #	SPRING & TUBE LENGTH/ #PCS	LARGE CLIP	HANGER BRACKET	YOKE	LIST PRICE
39457	25" / 2pcs	1pcs	1pc	2pcs	---

SLIDER BAR KITS

PART #	SPRING & TUBE LENGTH/ #PCS	LARGE CLIP	3 HOLE CLAMP	SLIDER BAR LENGTH	YOKE	LIST PRICE
39437	16" / 1pc	1pc	1pc	43"		---
39438	16" / 2pcs	1pc	1pc	43"	2pcs	---
39459	20"/ 2pcs	1pc	1pc	43"	2pcs	---
39460	25" / 1pc	1pc	1pc	43"		---
39461	25" / 2pcs	1pc	1pc	43"	2pcs	---
39470	16" / 1pc	1pc	1pc	38"		---
39462	16" / 2pcs	1pc	1pc	38"	2pcs	---
39451	25" / 1pc	1pc	1pc	38"		---
39454	25" / 2pcs	1pc	1pc	38"	2pcs	---

Spring & Tube

Slider Bar

BARS, SPRINGS, TUBES

PART #	SPRING & TUBE LENGTH/ #PCS	LIST PRICE
39443	16" Tube only	---
39447	20" Tube only	---
39436	25" Tube only	---
39466	16" Spring only	----
39467	20" Spring only	----
39468	25" Spring only	---
39474	38" Slider Bar	---
39475	43" Slider Bar	---

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

gladhands

PORT A

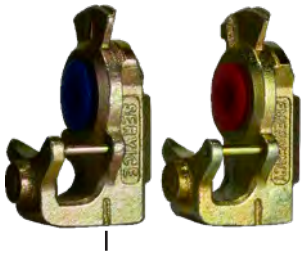
ALUMINUM GLADHANDS

- **½ " FPT port**
- Aluminum Casting
- Permanent Clamp Screw
- Black rubber seals
- Stainless Steel filter
- Meet SAE J318 requirements

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A	LIST PRICE
39870	Universal	Aluminum	Blk Rubber	No	1/2"	---
39871	Universal with filter	Aluminum	Blk Rubber	Yes	1/2"	---
39877	Emergency Red	Aluminum	Blk Rubber	No	1/2"	---
39878	Emergency with filter	Aluminum	Blk Rubber	Yes	1/2"	---
39874	Service Blue	Aluminum	Blk Rubber	No	1/2"	---
39875	Service with filter	Aluminum	Blk Rubber	Yes	1/2"	---

PLATED ALUMINUM GLADHANDS

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A	LIST PRICE
39832	Universal Standard	Plated Aluminum	Blk Rubber	No	1/2"	---
39833	Service - Blue	Plated Aluminum	Blk Rubber	No	1/2"	---
39834	Emergency - Red	Plated Aluminum	Blk Rubber	No	1/2"	---
39828	Service 38 degree	Plated Aluminum	Blk Rubber	No	1/2"	---
39829	Emergency 38 drgree	Plated Aluminum	Blk Rubber	No	1/2"	---
39830	Service 38 degree	Plated Aluminum	Blk Rubber	No	3/8"	---



PORT A

CAST IRON GLADHANDS

- **½ " FPT port**
- One-piece casting eliminates problems with clamp separation
- "Positive-stop" post, assures a perfect connection
- Polyurethane seal resist oils, chemicals & provide improved sealing & service life
- Gladhands meet SAE J318 requirements including breakaway requirement.

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A	LIST
39506	Universal	Cast Iron	Black Polyurethane	No	1/2"	---
39507	Emergency	Cast Iron	Red Polyurethane	No	1/2"	---
39508	Service	Cast Iron	Blue Polyurethane	No	1/2"	---

PORT A

PORT B

ANGLE MOUNT ALUMINUM GLADHANDS

- For use in trailer mounting locations
- Dual port provides connection options
- Powder-coated clamp plates are color coded for easy identification
- Port "A" comes standard as unplugged
- (2) 3/8 inch FPT Ports (one plugged).
- (2) 11/32 inch diameter mounting holes.
- Available with Port "B" plugged or unplugged (plug is included, loose in bag)
- Meet SAE J318

PART #	TYPE	MATERIAL	SEAL	FILTER	PORT A	PORT B	LIST
39511	Emergency	Aluminum	Blk Rubber	No	Unplugged	Plugged	---
39512	Service	Aluminum	Blk Rubber	No	Unplugged	Plugged	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

POWDER COATED IRON GLADHAND

- Tough powder coating improves wear & corrosion resistance
- Vividly colored to provide improved identification of service & emergency lines
- Stainless steel plate eliminates corrosion of the mating surface
- Polyurethane seal resist oil, chemicals, provide improved sealing & service life
- Meet or exceeds SAE J318 standard

PART #	DESCRIPTION	FILTER	PORT A	LIST PRICE
39509	Service with blue poly seal	Yes	1/2"	---
39510	Emergency with red poly seal	Yes	1/2"	---

BRACKET MOUNT SWING AWAY GLADHAND

- Bracket allows 180° rotation allowing for easy hookups, eliminating the need to twist lines during connections
- Helps protect rear-trailer gladhands when not in use
- Filter and closed seal are recommended
- Spring design provides consistent tension throughout rotation
- Design provides both back port and bottom port capabilities

Gladhand mount - 1/2" Male Thread

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	LIST PRICE
39515	Service (Blue)	Aluminum	Blk Rubber	yes	---

KNOB STYLE SHUTOFF GLADHAND

- Economical trailer shutoff gladhand
- Centered low-profile “snap-stop” knob
- Full face rubber seal
- Available with assembled or separate fittings.
- Meets SAE J318

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	LIST PRICE
39520	1/2" Service (Blue)	Aluminum	Blk Rubber	No	---
39521	3/8" Service (Blue)	Aluminum	Blk Rubber	No	---
39522	1/2" Emergency (Red)	Aluminum	Blk Rubber	No	---
39524	3/8" Emergency (Red)	Aluminum	Blk Rubber	No	---

LEVER STYLE SHUTOFF GLADHAND

- Flange mount
- Metel handle shutoff
- Full face rubber seal
- Tough metal Ball valve
- Color coded
- Meets SAE J318

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A NPT	PORT B NPT	LIST
39531	Emergency (Red)	Aluminum	Blk Rubber	No	3/8"	1/4"	---
39530	Service (Blue)	Aluminum	Blk Rubber	No	3/8"	1/4"	---

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GLADHAND GRIPS

1/2" NPTF.

- Comes with hardware and sealant
- Color-coded red and blue for easy air line identification - clamshell
- Handles are heat, oil and UV-resistant.
- Meet SAE J318

PART #	DESCRIPTION	LIST PRICE
39535	Poly grip hardware	---

ALUMINUM GLADHAND GRIPS

- 1/2" NPTF
- Each pack contains (1) red and (1) blue - clamshell
- One piece design
- No screws or plastic parts
- Easy to install
- Class II anodized coating provides greater corrosion resistance

PART #	DESCRIPTION	LIST PRICE
39537	Sure grip	---

GLADHAND PACIFIER SEAL

- Seals Gladhand from moisture, dirt and debris

PART #	DESCRIPTION	LIST PRICE
39566	Gladhand pacifier	---

GLADHAND SEALS

Seal Options:

- Rubber
- Polyurethane
- With screen filter
- Double lip
- Filter screen only

PART #	DESCRIPTION	LIST PRICE
39541	Blue, Polyurethane	---
39542	Red, Polyurethane	---
39543	Black, Polyurethane	---
39556	Blue with a screen filter Polyurethane	---
39557	Red with a screen filter Polyurethane	---
39558	Black with a screen filter Polyurethane	---
39550	Blue Double lip, Polyurethane	---
39551	Red Double Lips, Polyurethane	---
39552	Double Lip, Polyurethane	---
39544	Grey, Closed Style, Polyurethane	---
39560	Filter, Screen, Gladhand	---

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39565

DUMMY GLADHAND COUPLING KIT

• 6 ½" coupling length

PART #	CONNECTION	VENT	MATERIAL	LIST PRICE
39563	Chain	Yes	Steel Yellow Zinc plated	---
39564	Chain	No	Steel Yellow Zinc plated	---

39574 39575

NYLON GLADHAND AND PLUG HOLDER

• Stores Gladhand and electrical hook ups at a 45° angle.
• Can accept heavy ABS plug
• Standard mounting holes to install on back of cab.
• Glass-filled nylon, non-corrosive construction.

PART #	DESCRIPTION	LIST PRICE
39574	1 plug slot	---
39575	2 plug slot	---

GLADHAND HOLDER KIT

• Steel - Zinc Yellow Dichromate
• Holds gladhands when disconnected

PART #	DESCRIPTION	LIST PRICE
39573	Holder Kit	---
39572	Bracket only	---

GLADHAND LOCK

• Red molded plastic
• Prevents unwanted connections with trailers
• Protects idle units
• Universal for Aluminum and Iron Gladhands
• Supplied with 2-keys

PART #	DESCRIPTION	LIST PRICE
39570	Gladhand Lock w/ 2 keys	---

**** Not an Anti theft device***

KING PIN LOCK-ANTI HOOK UP

• Cast, Zinc plated
• Anti-tractor, trailer hook-up
• Supplied with 2 keys

PART #	DESCRIPTION	LIST PRICE
39860	King Pin Lock w/ 2 keys	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR CYLINDER

- 300 series stainless steel cylinder shafts provide excellent corrosion resistance and extended cycle life -cylinders tested to over 500,000 cycles.
- Lightweight, corrosion resistant aluminum tube with die cast aluminum end caps.
- Rear clevis cast as integral part of the rear cover for improved durability and mounting integrity.
- Double acting, Emralon-coated piston cup assures smooth long lasting operation even in cold weather conditions to (- 40°F).
- Front end cap assembly includes pressure seal, dirt seal and oil impregnated bronze bushing.
- Cylinder tube imprinted with part number and date code for quick identification.
- All cylinders are factory pressure and leak tested prior to shipping.
- Front Cover Kit-Includes front cover with bushing and seals installed and two cylinder gaskets.
- Rear Cover Kit-Includes rear cover with two cylinder gaskets.
- Piston Cup Kit-Includes piston cup, lock nut and two cylinder gaskets.
- Shaft Kit-Includes shaft, lock nut and two cylinder gaskets.

PART #	SIZE	STROKE	RETRACTED	EXTENDED	TYPE	LIST PRICE
39672	2 1/2"	4.0"	9.89"	13.89"	push/pull	---
39673	2 1/2"	6.0"	11.89"	17.89"	push/pull	---
39674	2 1/2"	8.0"	13.89"	21.89"	push/pull	---
39675	2 1/2"	6.0"	13.75"	19.75"	Spring return	---
39676	3 1/2"	8.0"	15.60"	24.28"	push/pull	---
39677	3 1/2"	10.0"	16.92"	26.95"	push/pull	---

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TAILGATE AIR CYLINDERS

- Die cast aluminum with mount hole for ½" pin and ¼" NPT port
- Molded piston cup
- Stainless steel piston rod with 5/8" – 18 thread
- 10 PSI – 120 PSI
- 10 psi min-120 psi max

39657

39660

PART #	DIA.	STROKE	LENGTH	TYPE	LIST PRICE
39655	2-1/2"	4.0"	13.37	Push/Pull	---
39656	2-1/2"	6.0"	17.37	Push/Pull	---
39657	2-1/2"	8.0"	21.37	Push/Pull	---
39658	2-1/2"	4.0"	14.71	Spring Ret	---
39659	2-1/2"	6.0"	19.75	Spring Ret	---
39660	3-1/2"	6.0"	20.23	Push/Pull	---
39661	3-1/2"	8.0"	24.23	Push/Pull	---
39662	3-1/2"	8.0"	26.98	Push/Pull	---
39663	3-1/2"	10.0"	28.98	Push/Pull	---

TAILGATE AIR CYLINDERS

- Machined aluminum, 5/8" diameter ,stainless steel shaft with 5/8" - 18 threads, "O" rings and a UHMW polyethylene wear band
- Direct replacements to Haldex and MGM
- Standard operating pressure 100 psi
- 90psi min to 150 psi max

39665

39667

PART #	DIA.	STROKE	BRACKET	TYPE	LIST PRICE
39665	6"	3"	Yes	Spring Ret	---
39667	6"	4.38"	No	Spring Ret	---

FIFTH WHEEL AIR CYLINDER

- 1/4" FPT port cast aluminum front and rear
- 2-1/2" Bore
- 6-3/4" stroke
- Front and rear mounting hole for 17/32" clevis,
- 100 psi
- Gold anodized tube for corrosion resistance

PART #	DESCRIPTION	LIST PRICE
39669	Fifth Wheel Air Cylinder	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR TANK DRAIN PULL VALVE

PART #	SIZE	DESCRIPTION	LIST PRICE
39595	1/4" male	5ft nylon coated pull cable	---
39596	1/4" male	4ft nylon coated pull cable	---
39597	1/4" male	3ft nylon coated pull cable	---
39600	1/4" male	Air valve only	---

AIR TANK CHECK VALVE

- Single check valves allow air to pass from a single source to its destination, and prevent air travel in the opposite direction.

PART #	MALE X FEMALE	LIST PRICE
39604	1/4"	---
39605	3/8"	---
39606	1/2"	---

D-2 STYLE AIR BRAKE GOVERNOR

- Opening and closing pressures of 100 to 120 psi
- High temperature O-ring construction
- Gasket and plugs included
- Replaces Bendix 275491 & KN18530

PART #	THREAD	DESCRIPTION	LIST PRICE
39592	6-1/8" NPT	Air Brake Governors D-2 style	---

IN-LINE QUICK RELEASE VALVE

- Quick release for the air brake system
- 3/8” female exhaust port
- 2-3/8” female delivery port
- Cracking pressure: 1 PSI
- Helps meet the FMVSS -121 requirement for timing

PART #	DESCRIPTION	LIST PRICE
39610*	3/8" NPT In-Line quick release valve	---
39611**	1/2" NPT In-Line quick release valve	---

* Replaces Bendix 229859, 288351 & KN32005
** Replaces Bendix 229860 & KN32011

R-12 RELAY VALVE

- ¼” Relay Valve with multiple delivery ports

Replaces Bendix 102166, 102626, 103009

PART #	SUPPLY PORT	DELIVERY PORT	DESCRIPTION	LIST PRICE
39613	1/2" NPT	4, 1/2"NPT	4 psi no Bracket	---
39614	1/2" NPT	4, 1/2"NPT	4 psi Relay Valve	---
39615	3/4" NPT	2, 1/2" NPT	4 psi Relay Valve	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

R-14 RELAY VALVE

- ¼" Relay Valve with two delivery and supply ports
- Replaces Bendix 103010

PART #	SUPPLY PORT	DELIVERY PORT	DESCRIPTION	LIST PRICE
39616	2-3/4"NPT	2-1/2"NPT	4 psi Relay Valve	---

THREE WAY SOLENOID

- Operates a minimum GF 50,000 cycles
- Inlet port normally closed
- Must be mounted vertically with the air inlet port facing up
- 1/4" female NPT ports
- 12 Volts
- 100-120 psi operating pressure
- Attached mounting bracket with two 9/32" diameter mounting holes on 2-1/2" centers

PART #	SUPPLY PORT	DESCRIPTION	LIST PRICE
39684	2, 1/4" FPT	Three way Solenoid	---

UNIVERSAL SOLENOID

- Operates a minimum of 50,000 cycles.
- 125 amps at 12 volts.
- Continuous voltage.
- One on/off circuit
- 5/16 inch side studs, No. 10 top stud(s).
- 2 1/8 on Center
- 5/16 x 19/32
- Hardware included.
- Normally open

PART #	DESCRIPTION	LIST PRICE
39687	4 stud Solenoid	---
39688	3 stud Solenoid	---

AIR SOLENOID VALVE

- Operates a minimum of 50,000 cycles.
- 100 psi max pressure.
- 1/4" Thread
- 10 Watts, 12 VDC
- Replaces Neway 90054075

PART #	DESCRIPTION	LIST PRICE
39689	12V Closed	---
39690	12V Open	---

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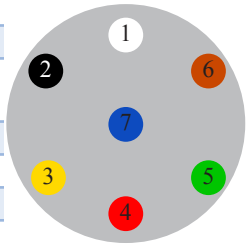
coiled cable

SEVEN-WAY COILED CABLE ASSEMBLIES

- ABS assemblies are heavy duty to power trailers
- HD Green gives clear ABS identification
- Resists abrasion, great coil retention
- Heavy duty plugs with spring guards
- ABS Cable meets SAE J2394
- Operating temperature range of -55° to +185°F

PIN LOCATION	COLOR CODE	GAUGE	CIRCUIT
1	White	8	Ground
2	Black	12	Clearance, side and ID lamps
3	Yellow	12	Left turn and Hazard
4	Red	10	Stop lamp and Anti-lock
5	Green	12	Right turn and Hazard
6	Brown	12	Tail and Plate lamp



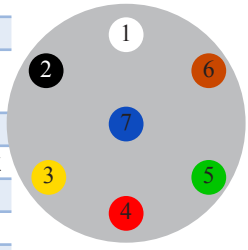
ABS

PART #	LENGTH	DESCRIPTION	LIST PRICE
39736	12'	Coiled Electrical Cord, ABS w/12 in lead, w/plugs, Green	---
39737	15'	Coiled Electrical Cord, ABS w/12 in lead, w/plugs, Green	---

SEVEN-WAY COILED CABLE BLACK

- This high quality, durable construction is recommended for single-trailer configurations using standard lighting on non-ABS vehicles.
- Durable black outer jacket with heavy duty zinc die cast plugs and two spring guards included.

PIN	COLOR CODE	HD GAUGE	ECO GAUGE	CIRCUIT
1	White	10	12	Ground
2	Black	12	14	Clearance, side and ID lamps
3	Yellow	12	14	Left turn and Hazard
4	Red	12	14	Stop lamp and Anti-lock
5	Green	12	14	Right turn and Hazard
6	Brown	12	14	Tail and Plate lamp
7	Blue	12	14	ABS Power Aux



STANDARD - HEAVY DUTY

PART #	LENGTH	DESCRIPTION	LIST PRICE
39738	12'	Coiled Electrical Cord, w/12 in lead, w/plugs, Black	---
39739	15'	Coiled Electrical Cord, w/15 in lead, w/plugs, Black	---

STANDARD - ECONOMY

PART #	LENGTH	DESCRIPTION	LIST PRICE
39740	12'	Coiled Electrical Cord, w/12 in lead, w/plugs, Black	---
39741	15'	Coiled Electrical Cord, w/12 in lead, w/plugs, Black	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SIX WAY COILED ELECTRIC CABLE ASSEMBLY

- 6', 8', 12' Length
- Includes 2 Thermoseal 6-way plugs
- For light duty towing applications such as boats and utility trailers
- Plugs are molded for moisture and corrosion resistance
- 4/14 Gauge cable
- Flexible from -55°F to 150°F (-66°C to 66°C)

PART #	DESCRIPTION	LIST PRICE
39752	6ft, 14awg w/12" Lead at 2 ends	---
39753	8 ft, 14awg w/12" Lead at 2 ends	---
39754	12ft,14awg w/12" Lead at 2 ends	---

FOUR WAY COILED ELECTRIC CABLE ASSEMBLY

- 4/14 Gauge cable
- 12' & 15' length
- Includes 2 Thermoseal 4-way plugs
- For light duty towing applications such as boats and utility trailers
- Plugs are molded for moisture and corrosion resistance
- Flexible from -55°F to 150°F (-66°C to 66°C)

PART #	DESCRIPTION	LIST PRICE
39748	12' with 12" Lead, both ends 4/14awg	---
39749	15' with 12" Lead, both ends 4/14awg	---

DUEL POLE COILED ELECTRIC CABLE ASSEMBLY

- Black Jacket
- 12' & 15' length
- 200 Amp at 12 VDC.
- Zinc die cast plugs.
- 4 gauge cable.

PART #	DESCRIPTION	LIST PRICE
39744	12' Coil With 12" Lead at 2 ends 4awg	---
39745	15' Coil With 12" Lead at 2 ends 4awg	---

SINGLE POLE COILED ELECTRIC CABLE ASSEMBLY

- Black Jacket
- 12' & 15' length
- For applications that require direct electrical power to trailer lift gates.
- Rated at 265 amps on/off service (30 seconds on/50 seconds off).
- Zinc die cast plugs with spring guards included.
- 4 gauge cable.

PART #	DESCRIPTION	LIST PRICE
39742	12' Coil With 12" Lead both ends 4awg	---
39743	15' Coil With 12" Lead both ends 4awg	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

7 WAY PLUGS AND SOCKETS

39758

39757

39772

- Heavy-duty, nickel-plated zinc die cast housings
- Brass terminal pins for maximum current carrying ability
- Field repairable with standard tools
- Fully interchangeable with other SAE-type, 7-way connectors
- ATA marked wire terminals.
- Internal clamp holds cable securely in place.
- Standard seven-way plugs meet ATA and SAE J560 requirements
- ISO plugs meet ISO 3731:1997 requirements.
- ISO socket prevents connections with Non-ISO plugs - Used in tractor/ trailer systems
- ISO color-coded yellow, non-corrosive reinforced nylon housing.

PLUGS

PART #	DESCRIPTION	LIST PRICE
39757	7-Way Single Grip Plug w/Spring Guard	---
39758	7-Way Single Grip Plug NO Spring.	---
39772	7-Way Double Grip Plug w/Spring.	---
39773	7-Way Double Grip Plug NO Spring Guard	---
39788	7-way ISO plug	---

SOCKETS

PART #	DESCRIPTION	LIST PRICE
39774	Solid Pin 7-Way Metal Socket	---
39775	Split Pin 7-Way Metal Socket	---
39789	7-way, ISO socket	---

7 WAY DOUBLE GRIP PLUG

- T-Grip weather guard
- Plastic grip

PART #	DESCRIPTION	LIST PRICE
39818	7-Way Double Grip Plug, Plastic	---

6 AND 7 WAY ADAPTER

PART #	DESCRIPTION	LIST PRICE
39786	Seven way plug to Six Way Socket Adapter	---
39787	Six way plug to Seven Way socket Adapter	---

RV 7-WAY PLUG

- Primarily used in RV applications.
- Constructed of molded PVC for impact resistance
- Blade Style Pin

PART #	DESCRIPTION	LIST PRICE
39819	7-way Plastic plug	---

RV 7-WAY SOCKET

- RV Screw-type socket
- 6-24 VDC.
- Mounting 2-1/4" inch on center .
- Constructed of molded PVC

PART #	DESCRIPTION	LIST PRICE
39820	7-way socket	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

6 - WAY PLUGS AND SOCKETS

PART #	DESCRIPTION	LIST PRICE
39782	6-Way Double Grip Metal Plug w/Spring Guard.	---
39783	6-Way Metal Socket.	---

4 WAY PLUGS AND SOCKETS

- Heavy-duty zinc die cast housings on plugs and sockets.
- Plug locking system works with socket door to ensure proper hookup and prevent unintentional disconnections.
- Spring guard supports and protects cable.

4 - WAY

PART #	DESCRIPTION	LIST PRICE
39778	4-Way Double Grip Metal Plug w/Spring Guard.	---
39779	4-Way Metal Socket.	---

2 POLE PLUGS AND SOCKETS

- 200 amp 4 gauge wire capacity.
- Heavy-duty zinc die cast housing.
- Internal ground.
- Spring guard supports and protects cable.

PART #	DESCRIPTION	LIST PRICE
39768	2 Pole Double Grip Metal Plug w/Spring Guard.	---
39769	2 Pole Metal Socket	---

SINGLE POLE PLUGS AND SOCKETS

- Used to provide power to heavy draw auxiliary trailer equipment.
- Heavy-duty zinc die cast housings.
- Power and ground terminals hold up to 1/0 gauge wire.

PART #	DESCRIPTION	LIST PRICE
39764	1-Way Double Grip Plug w/Spring Guard.	---
39765	1-Way Double Grip Plug w/Spring Guard and Ground Kit	---
39766	1-Way Metal Socket	---
39767	1-Way Metal Socket and Ground Kit	---

GROUND KIT

PART #	DESCRIPTION	LIST PRICE
39809	Ground Kit (Bolt, Nut and Wire Lug) for 1-Way Plug or Socket	---

PROTECTOR BOOT FOR PLUG

- Protective rubber boot seals out moisture and contaminants

PART #	DESCRIPTION	LIST PRICE
39807	Protector Boot	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

7 WAY SOCKET WITH CIRCUIT BREAKER

- Non-corrosive, reinforced nylon housing for added durability.
- Designed for No. 8 ring terminals.
- ATA color-coded contacts.
- Solid brass split pins are zinc-plated for corrosion resistance.
- Each socket includes automatic reset circuit breakers with positive snap action to eliminate arcing (unless otherwise noted).
- Mounting holes are 4 1/2 inch on center and include steel bushings for added housing protection.
- Adhesive-backed mounting gasket included.
- Circuit breaker sockets meet SAE J560 requirements.

PART #	DESCRIPTION	LIST PRICE
39792	No circuit breakers	---
39793	15amp Plastic with circuit breakers	---
39794	20amp Plastic with circuit breakers	---
39795	30amp Plastic with circuit breakers	---

7 WAY CIRCUIT CHASER

- Instantly finds short or faulty circuits
- Portable

PART #	DESCRIPTION	LIST PRICE
39805	7 way circuit	---

CIRCUIT BREAKERS - PLASTIC

- Colored Battery molded Stud
- 12 Volt
- Meets SAE j553 requirements
- Nuts included

PART #	DESCRIPTION	LIST PRICE
39800	15 AMP	---
39801	20 AMP	---
39802	25 AMP	---
39803	30 AMP	---

NOSE BOX - DEEP

- Zinc - extra deep

PART #	DESCRIPTION	LIST PRICE
39814	Deep Nose Box	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BATTERY GROUND STRAP

- 4 gauge wire.
- Molded zinc-plated steel lugs and tin-plated copper stranding.
- 7/16 inch diameter bolt hole.
- 12" Long

PART #	DESCRIPTION	LIST PRICE
39712	12", 4 Gauge ground strap	---

STAINLESS STEEL BATTERY NUT

PART #	TYPE	LIST PRICE
39713	3/8"	---

RUBBER GROMMET

- Black Rubber

PART #	ID	OD	LIST PRICE
95450	5/16"	9/16"	---
95451	5/8"	1 1/4"	---
95452	3/4"	1 3/4"	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ACCESSORIES

CABLE TIE STRAPS - NYLON

- Used to secure and bundle
- CSA Certified
- RoHs Compliant
- UV or Standard

STANDARD

PART #	LENGTH	STRENGTH	PACKAGE QTY	LIST PRICE
95601	7 1/2"	50lb	100	---
95602	11"	50 lb	100	---
95603	14.5"	50 lb	100	---
95604	24"	175 lb	50	---
95605	36"	175lb	50	---
95606	48"	175 lb	50	---

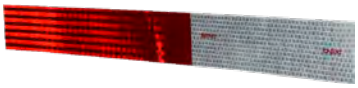
UV BLACK

PART #	LENGTH	STRENGTH	PACKAGE QTY	LIST PRICE
95610	7 1/2"	50lb	100	---
95611	14"	50 lb	100	---
95612	24"	175lb	50	---
95613	36"	175lb	50	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CONSPICUITY TAPE

95620



Tape is designed for trucks, trailers, and other vehicles for easy nighttime vehicle recognition and increased road safety. It is a high quality, durable microprismatic retroreflective material with a pressure sensitive adhesive. The solid construction does not require edge sealing. Conspicuity tape provides superior reflectivity and may help reduce accidents.

- DOT -C2 Certified
- Meets or exceeds NHTSA, FMVSS 108 & ASTM D4956
- Meets Canada TSD 108
- 10 year durability

PART #	DESCRIPTION	APP. WT.	LIST PRICE
95620	2" x 150' Roll of 11" Red / 7" White	0.32	---
95621	2" x 150' Roll of 6" Red / 6" White	0.32	---
95622	2" x 150' Roll of solid white	0.32	---
95623	2" x 18", kiss cut strip, white	0.03	---
95624	2" x 18" kiss cut strip of 11" Red / 7" White	0.03	---

95625

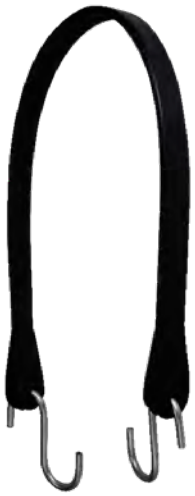
95627

- Meets or exceeds ANSI/ASAE S279, ANSI/ASAE S276 & ASTM D-4956
- 7 year durability

PART #	DESCRIPTION	APP. WT.	LIST PRICE
95625	1" X 150' Roll of solid yellow	0.17	---
95626	2" X 150' Roll of solid yellow	0.32	---
95627	3" round all plastic reflector, Red	0.06	---
95628	3 3/4" x 6 1/2" American flag, type IV HIP	0.02	---

95628

TARP STRAPS



- Heavy Duty EPDM tarp straps
- Longer lasting than rubber
- Greater stretch length
- Ozone and weather resilient
- Made in the USA

PART #	STRAP LENGTH	MATE-RIAL	DESCRIPTION	QTY	LIST PRICE
990790	10"	EPDM	Tarp strap with S hook	50	---
990791	15"	EPDM	Tarp strap with S hook	50	---
990792	21"	EPDM	Tarp strap with S hook	50	---
990793	31"	EPDM	Tarp strap with S hook	50	---
990794	41"	EPDM	Tarp strap with S hook	50	---

NYLON DOT AIR BRAKE TUBING

TRUCK AND TRAILER

- Air Brake Tubing available from inventory in a large variety of colors and sizes
- Superior cold weather flexibility and abrasion resistance
- UV and ozone resistant nylon
- Meets or exceeds SAEJ844 (Type A - non-reinforced & Type B - reinforced)
- Meets or exceeds DOT requirements for use with compression fittings (NOTE: SAE does not recognize 1/8", 5/32" or 3/16" O.D. tubing for use with air brake systems)
- Air Brake Tubing identified per SAE J844 & FMVSS No. 106 Brake Hoses, 49 CFR 571.106
- Conforms to our own rigorous qualification and inspection testing which exceeds SAE and DOT requirements
- Designed to operate at up to 150 psi in air brake systems
- Resistant to attack by gasoline, diesel fuel and commonly used road and cleaning chemicals
- Air Brake Tubing available on bulk spools or by packages
- Operating range: -40°- 200°F - Not made for fuel

PART NUMBER	COLOR	LENGTH	NOMINAL O.D.	NOMINAL WALL	LIST PRICE
38950B2	Black	2000'	1/8"	0.023"	---
38950	Black	100'	1/8"	0.023"	---
3895BA	Black	50'	1/8"	0.023"	---
38951B1	Black	1000'	5/32"	0.032"	---
38951	Black	100'	5/32"	0.032"	---
38951BA	Black	50'	5/32"	0.032"	---
38953B1	Black	1000'	3/16"	0.035"	---
38953	Black	100'	3/16"	0.035"	---
38953BA	Black	50'	3/16"	0.035"	---
389523	Black	1000'	1/4"	0.040"	---
389522	Black	500'	1/4"	0.040"	---
38952	Black	100'	1/4"	0.040"	---
38952BA	Black	50'	1/4"	0.040"	---
38952U1	Blue	1000'	1/4"	0.040"	---
38952U	Blue	100'	1/4"	0.040"	---
38952UA	Blue	50'	1/4"	0.040"	---
38952O	Orange	100'	1/4"	0.040"	---
38952OA	Orange	50'	1/4"	0.040"	---
38952G1	Green	1000'	1/4"	0.040"	---
38952G	Green	100'	1/4"	0.040"	---
38952GA	Green	50'	1/4"	0.040"	---
38952R1	Red	1000'	1/4"	0.040"	---
38952R	Red	100'	1/4"	0.040"	---
38952RA	Red	50'	1/4"	0.040"	---
38952Y1	Yellow	1000'	1/4"	0.040"	---
38952Y	Yellow	100'	1/4"	0.040"	---
38952YA	Yellow	50'	1/4"	0.040"	---
38954B5	Black	500'	5/16"	0.040"	---
38954	Black	100'	5/16"	0.040"	---
38954BA	Black	50'	5/16"	0.040"	---
38960B5	Black	500'	3/8"	0.062"	---
38960	Black	100'	3/8"	0.062"	---
38960BA	Black	50'	3/8"	0.062"	---
38960U5	Blue	500'	3/8"	0.062"	---
38960U	Blue	100'	3/8"	0.062"	---
38960UA	Blue	50'	3/8"	0.062"	---
38960O5	Orange	500'	3/8"	0.062"	---
38960O	Orange	100'	3/8"	0.062"	---
38960OA	Orange	50'	3/8"	0.062"	---
38960G5	Green	500'	3/8"	0.062"	---
38960G	Green	100'	3/8"	0.062"	---
38960GA	Green	50'	3/8"	0.062"	---
38960R5	Red	500'	3/8"	0.062"	---
38960R	Red	100'	3/8"	0.062"	---

PART NUMBER	COLOR	LENGTH	NOMINAL O.D.	NOMINAL WALL	LIST PRICE
38960RA	Red	50'	3/8"	0.062"	---
38960Y5	Yellow	500'	3/8"	0.062"	---
38960Y	Yellow	100'	3/8"	0.062"	---
38960YA	Yellow	50'	3/8"	0.062"	---
38965B5	Black	500'	1/2"	0.062"	---
38965	Black	100'	1/2"	0.062"	---
38965BA	Black	50'	1/2"	0.062"	---
38965U5	Blue	500'	1/2"	0.062"	---
38965U	Blue	100'	1/2"	0.062"	---
38965UA	Blue	50'	1/2"	0.062"	---
38965O5	Orange	500'	1/2"	0.062"	---
38965O	Orange	100'	1/2"	0.062"	---
38965OA	Orange	50'	1/2"	0.062"	---
38965G5	Green	500'	1/2"	0.062"	---
38965G	Green	100'	1/2"	0.062"	---
38965GA	Green	50'	1/2"	0.062"	---
38965R5	Red	500'	1/2"	0.062"	---
38965R	Red	100'	1/2"	0.062"	---
38965RA	Red	50'	1/2"	0.062"	---
38965Y5	Yellow	500'	1/2"	0.062"	---
38965Y	Yellow	100'	1/2"	0.062"	---
38965YA	Yellow	50'	1/2"	0.062"	---
38970BC	Black	250'	5/8"	0.092"	---
38970	Black	100'	5/8"	0.092"	---
38970BA	Black	50'	5/8"	0.092"	---
38970GC	Green	250'	5/8"	0.092"	---
38970G	Green	100'	5/8"	0.092"	---
38970GA	Green	50'	5/8"	0.092"	---
38970RC	Red	250'	5/8"	0.092"	---
38970R	Red	100'	5/8"	0.092"	---
38970RA	Red	50'	5/8"	0.092"	---
38975BC	Black	250'	3/4"	0.092"	---
38975	Black	100'	3/4"	0.092"	---
38975BA	Black	50'	3/4"	0.092"	---
38975GC	Green	250'	3/4"	0.092"	---
38975G	Green	100'	3/4"	0.092"	---
38975GA	Green	50'	3/4"	0.092"	---

FUEL LINE AND AIR BRAKE HOSE

TRUCK AND TRAILER

FUEL LINE AND VAPOR EMISSION

•SAE 30R7
•Nitrile tube w/ spiral synthetic cord, hypalon cover.
•50 p.s.i. working pressure. 1/2 -35 PSI
•-40^0 F to + 257^0 F temperature range.
•Low pressure/ high temperature fuel for cars, light trucks, and small engines.
• Meets SAE J1402

PART #	ID	OD	LENGTH	LIST PRICE
38920	3/16	13/32	25'	---
38926	5/16	9/16	25'	---
38923	1/4	1/2	25'	---
38927	3/8	5/8	50'	---

AIR BRAKE HOSE

• BLACK

•Spiral synthetic cord reinforcement with neoprene cover.
•-40^0 F to +200^0 F temperature range.
•Max opperating pressure 255 psi
•Max burst pressure 900 psi
• Meets SAE J1402

PART #	ID	OD	LENGTH	LIST PRICE
38910	3/8	3/4	50'	---
38915	1/2	7/8	50'	---

HYDRAULIC ADAPTERS & ACCESSORIES

STEEL ADAPTERS

Technical information
Profile size chart
Steel Pipe Swivels
37° JIC Flare Straights
37° JIC Flare Shapes
Bulkhead Adapters
Steel Pipe Fittings
O-Ring Adapters Straight
JIC Swivels
O-Ring Adapters
O-Ring Face Seal
BSPT/ BSPP Adapters
Metric Adapters
Flange Adapters
Stainless Steel Adapters
SS Hose Fittings

HYDRAULIC QUICK DISCONNECTS

Thread to Connect - Wing
ISO A Interchange
ISO B Interchange
Flush Face ISO
VEP Series
AG Interchange
Hydraulic Jack Q/D

HYDRAULIC VALVES & ACCESSORIES

Flow Control Valve
Variable Flow Control
Air Breathers

PLATING SPECIFICATION

We standard Trivalent, Cr^{+3} plating performs at nearly double the S.A.E. corrosion resistance requirement. The plating meets ASTM B633, Fe/Zn 5. The thickness is 5um-13um. This plating is silver in appearance and has been testing at 96 hours to white rust and 120 hours to red rust.

TECHNICAL INFORMATION

WORKING PRESSURE

The tables on the following pages list the recommended working pressure for a variety of hydraulic fittings made in accordance with certain industry standards. Many factors such as impulse, vibration, mechanical shock, and improper assembly may affect the integrity of the fitting connection.

We recommends sufficient testing be conducted to ensure that performance levels will be safe and satisfactory, especially if installed in systems operating at elevated pressures or in severe conditions. Working pressure ratings are capable of a 4 to 1 minimum burst. All steel fittings meet or exceed the minimum SAE pressure ratings. Always consider application and maximum pressure requirements when selecting fittings.

METHODS FOR INSTALLING FITTINGS

There are three methods for installing a fitting:

- Torque wrench
- Flats From Wrench Resistance
- Turns From Finger Tight

For Flare and NPSM Fittings, we recommend the flats from wrench resistence method be used whenever possible.

The differences in material, plating, and surface finish impacts the coefficient of friction when installing or connecting fittings. To minimize these variances, We recommend that fitting connections are lubricated when installed. Connections that are lubricated provide a more accurate installation torque, which results in fewer leaks.

USING A TORQUE WRENCH

The torque values given in the tables on the following pages are for reference purposes only based on industry standard practice and for low carbon steel mating with steel/iron components. Actual torque values may need to be adjusted due to variances described above.

SAE recommends always making a wet (lubricated) installation or connection to reduce friction on moving parts, O-rings, and variances in material and plating. The torque values in these tables are based off SAE values using a .17 coefficient of friction as per SAE J2593. Many hydraulic leaks are a result of over-torque, which causes excessive deformation of material or exceeds the yield strength of the material, which may reduce the load or clamping force between seal contacts.

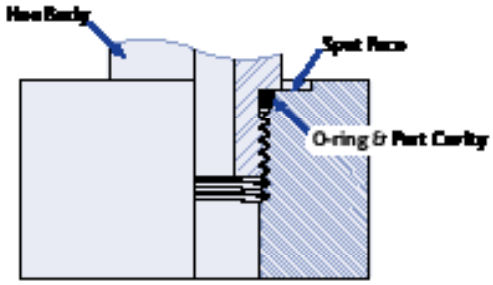
If more than one value or range is given, use the lower value first and increase only if required. Over-torquing can damage a fitting or mating component.

SAE O-Ring Boss Port Specifications

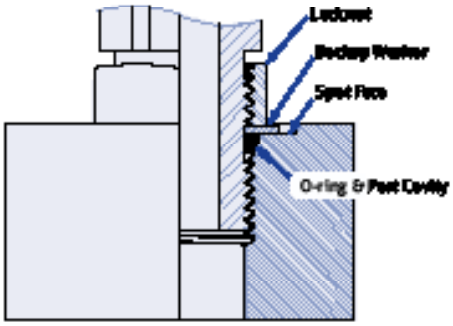
O-ring Boss ports (ORB) provide a seal by trapping the fitting's O-ring inside a port cavity. When a fitting is installed into the port, the O-ring is trapped between the fitting body hex or washer and port cavity.

Straight fittings include a hex, and sometimes an additional cylindrical shoulder below the hex and above the threads, to trap the O-ring in the port cavity.

Elbow and Tee fittings require a backup washer and a locknut above the O-ring on the threaded stud to permit a 360° orientation of the fitting around the port.



Straight SAE ORB



Adustable SAE ORB

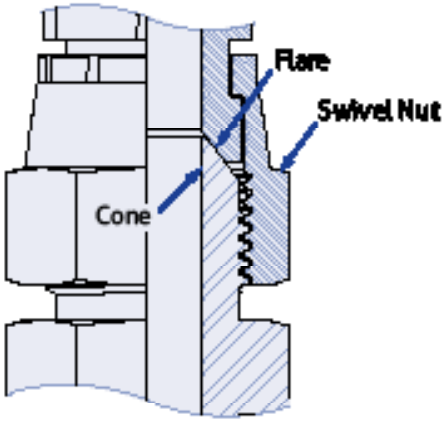
The following table lists the specifications for SAE O-Ring Boss Ports.

SAE O-Ring Boss Specifications								
Dash Size	Tube Size	Thread	SAE-ORB to JIC and Pipe Fittings*			SAE-ORB to ORFS Fittings**		
			Torque	Working Pressure		Torque	Working Pressure	
			Adjustable & Non- Adjustable	Adjustable	Non-Adjustable	Adjustable & Non- Adjustable	Adjustable	Non- Adjustable
			(ft-lbs) +25% -0%	(psi)	(psi)	(ft-lbs) +25% -0%	(psi)	(psi)
02	1/8	5/16-24	6	4500	4500	-	-	-
03	3/16	3/8-24	7	4500	4500	7	5800	9100
04	1/4	7/16-20	13	4500	4500	15	5800	9100
05	5/16	1/2-20	18	4500	4500	18	5800	9100
06	3/8	9/16-18	22	3600	4500	26	5800	9100
08	1/2	3/4-16	37	3600	4500	52	5800	9100
10	5/8	7/8-14	44	2900	3600	74	5800	9100
12	3/4	1-1/16-12	70	2900	3600	125	5800	5800
14	7/8	1-3/16-12	92	2300	2900	158	5800	5800
16	1	1-5/16-12	111	2300	2900	199	4500	5800
20	1 1/4	1-5/8-12	147	1800	2300	210	3600	3600
24	1 1/2	1-7/8-12	155	1800	2300	273	2900	3600
32	2	2-1/2-12	221	1450	1800	-	-	-
* = Light duty studs included on JIC, NPTF and NPSM fittings per SAE J1926/3 & J514 ** = Heavy duty studs included on ORFS fittings per SAE J1926/2 & J1453								
Note: Torque values are for wet torque and are allowed up to 25% the listed value according to SAE J2593.								

JIC Adapter Specifications

Male flared fittings include a conical nose with external threads for clamping.

A flared fitting or tube assembly is tightened against the cone with a swivel nut. By forcing the flare against the cone during the torquing process, the nose cone is slightly deformed and meshes to create a metal to metal seal between the flare and the cone.



The following table lists the specifications for JIC adapters.

JIC Specifications							
Dash Size	Tube Size	Thread	Working Pressure		Torque		
			Male	Female Swivel Nut	JIC Rigid	JIC Swivel	Bulkhead Locknut
			(psi)	(psi)	(FFWR)	(FFWR)	(ft-lbs) +25% -0%
02	1/8	5/16-24	5000	5000	1/4 - 1/2	2	4
03	3/16	3/8-24	5000	5000	1/4 - 1/2	2	6
04	1/4	7/16-20	5000	4500	1/4 - 1/2	2	10
05	5/16	1/2-20	5000	4000	1/4 - 1/2	2	13
06	3/8	9/16-18	5000	4000	1/4 - 1/2	2	16
08	1/2	3/4-16	4500	4000	1/4 - 1/2	2	27
10	5/8	7/8-14	3500	3000	1/4 - 1/2	1 1/2	32
12	3/4	1-1/16-12	3500	3000	1/4 - 1/2	1 1/2	52
14	7/8	1-3/16-12	3000	2500	1/4 - 1/2	1 1/2	66
16	1	1-5/16-12	3000	2500	1/4 - 1/2	1 1/2	85
20	1 1/4	1-5/8-12	2500	2000	1/4 - 1/2	1	111
24	1 1/2	1-7/8-12	2000	1500	1/4 - 1/2	1	114
32	2	2-1/2-12	1500	1125	1/4 - 1/2	1	162
Values are per SAE J514							

It has been my observation that most people get ahead during the time that others waste. -*Henry Ford*

Pipe & Pipe Swivel Adapter Specifications

NPSM fittings include an inverted 60° cone inside an internally threaded swivel union nut. Male NPTF fittings that have a 30° internal chamfer that make a 60° inverted cone, will mate with NPSM swivel unions.

NOTE: THE MATING MALE THREADS MUST INCLUDE AN INSIDE CHAMFER ON THE END OF THE FITTING THAT MATES WITH THE INVERTED CONE. THREADS ARE FOR CLAMPING FORCE ONLY AND THE SEALING OCCURS ON A SMALL RADIAL SECTION BETWEEN THE MALE FITTING INTERNAL CHAMFER AND THE SWIVEL UNION INVERTED CONE.

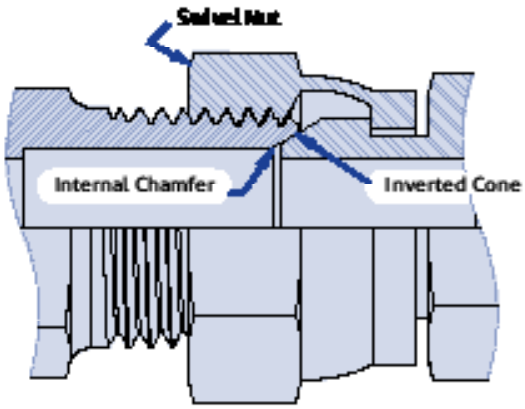


Figure 7: NPTF & NPSM Union

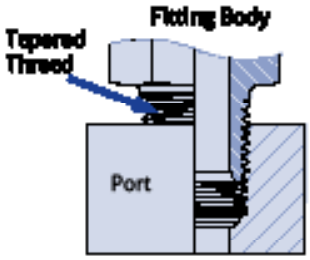


Figure 8: NPT & NPTF Assembly

NPT and NPTF pipe threads seal by wedging the tapered threads through deformation into each other. Both of these threads require thread sealants to complete a seal.

The following table lists the specifications for NPT, NPTF, and NPSM Pipe adapters.

NPT, NPTF, and NPSM Pipe Specifications						
Dash Size	Thread Size	Major OD* (inch)	Working Pressure		Torque	
			NPT, NPTF Male and Female	NPSM Female Swivel Nut	NPT, NPTF	NPSM Swivel Union
			(psi)	(psi)	(TFFT)	(FFWR)
02	1/8-27	.405	5000	5000	2-3	2
04	1/4-18	.540	4000	5000	2-3	2
06	3/8-18	.675	3000	4000	2-3	2
08	1/2-14	.84	3000	3500	2-3	2
12	3/4-14	1.050	2500	2250	2-3	2
16	1-11 1/2	1.315	2000	2000	1 1/2 - 2 1/2	1 1/2
20	1 1/4-11 1/2	1.660	1150	1625	1 1/2 - 2 1/2	1 1/2
24	1 1/2-11 1/2	1.900	1000	1250	1 1/2 - 2 1/2	1 1/2
32	2-11 1/2	2.375	1000	1125	1 1/2 - 2 1/2	1 1/2
Values are per SAE J514 & J2593						

Table 3: NPT, NPTF, and NPSM Pipe Specifications

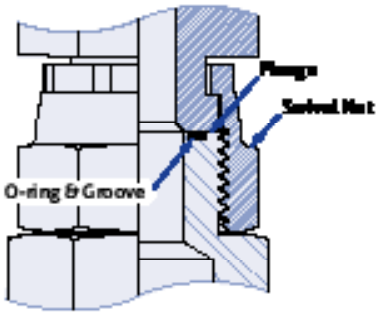
Folks who never do any more than they are paid for, never get paid for any more than they do.

-Elebert Hubbard

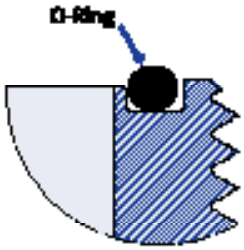
O-ring Face Seal Adapter Specifications

O-ring face seal fittings include a precision groove in the face of the male fitting. Sealing occurs when an O-ring is trapped in the groove by a smooth flat flange that is clamped against the face with a nut or nut and sleeve. The flat flange may be formed or brazed onto the end of a tube, or is machined on a fitting.

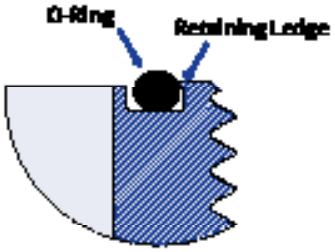
There are two SAE groove types:
- Type A: The original style A O-ring has no retaining ledge.
- Type B: The Type B groove has a retaining ledge (half dovetail) that improves O-ring retention. The Type B style is more commonly found and is a design improvement over the Type A.



ORFS Fitting Assembly



Detail View of Cross Section of Groove Type A



View of Groove Type B

The following table lists the specifications for O-ring Face Seal adapters.

ORFS Specifications								
Dash Size	Tube Size	Thread Size	Working Pressure		Torque			
			Male	Female Swivel Nut	Male & Female	Bulkhead Locknut	Tube Nuts	Swivel Nuts
			(psi)	(psi)	(ft-lbs) +25% -0%	(ft-lbs) +25% -0%		
04	1/4	9/16-18	6000	6000	18	16	1/4-1/2	1/2-3/4
06	3/8	11/16-16	6000	6000	29	22	1/4-1/2	1/2-3/4
08	1/2	13/16-16	6000	6000	41	29	1/4-1/2	1/2-3/4
10	5/8	1-14	6000	6000	44	44	1/4-1/2	1/2-3/4
12	3/4	1-3/16-12	6000	6000	66	66	1/4-1/2	1/3-1/2
16	1	1-7/16-12	6000	5000	92	92	1/4-1/2	1/3-1/2
20	1 1/4	1-11/16-12	4000	4000	125	111	1/4-1/2	1/3-1/2
24	1 1/2	2-12	4000	3000	147	125	1/4-1/2	1/3-1/2
Note: Values are per SAE J2593 & J1453								
Torque values are for wet installation of steel components. Reduce torque values for softer material components.								

Table 4: ORFS Specifications

BSPT, BSPP and Metric Adapter Specifications

BSPT and Metric tapered threads install and work in the same manner as NPT and NPTF.

Male BSPP fittings include an inverted 60° cone inside an internally threaded swivel union nut. Male BSPP fittings that have a 30° internal chamfer that make a 60° inverted cone, will mate with Female BSPP swivel unions.

NOTE: THE MATING MALE THREADS MUST INCLUDE AN INSIDE CHAMFER ON THE END OF THE FITTING THAT MATES WITH THE INVERTED CONE. THREADS ARE FOR CLAMPING FORCE ONLY AND THE SEALING OCCURS ON A SMALL RADIAL SECTION BETWEEN THE MALE FITTING INTERNAL CHAMFER AND THE SWIVEL UNION INVERTED CONE.

DIN swivel unions have a 24° inverted cone and may be installed into DIN bite-ring compression fittings. To provide enhanced performance, an O-ring is sometimes included in the cone of some DIN swivel unions.

British Standard Pipe Parallel (BSPP) and Metric Parallel threaded ports do not include a port cavity like the O-ring Boss or ISO 6149 port. Instead, an O-ring sits on top of the spot face or external surface and is surrounded by a metal retaining ring or other retaining component to trap the O-ring between the fitting hex, body, and spot face.

Elbow and Tee fittings have a locknut, backup washer, O-ring and retaining washer to permit 360° orientation around the axis of the port.

The following table lists the specifications for **BSPP & BSPT Adapters**

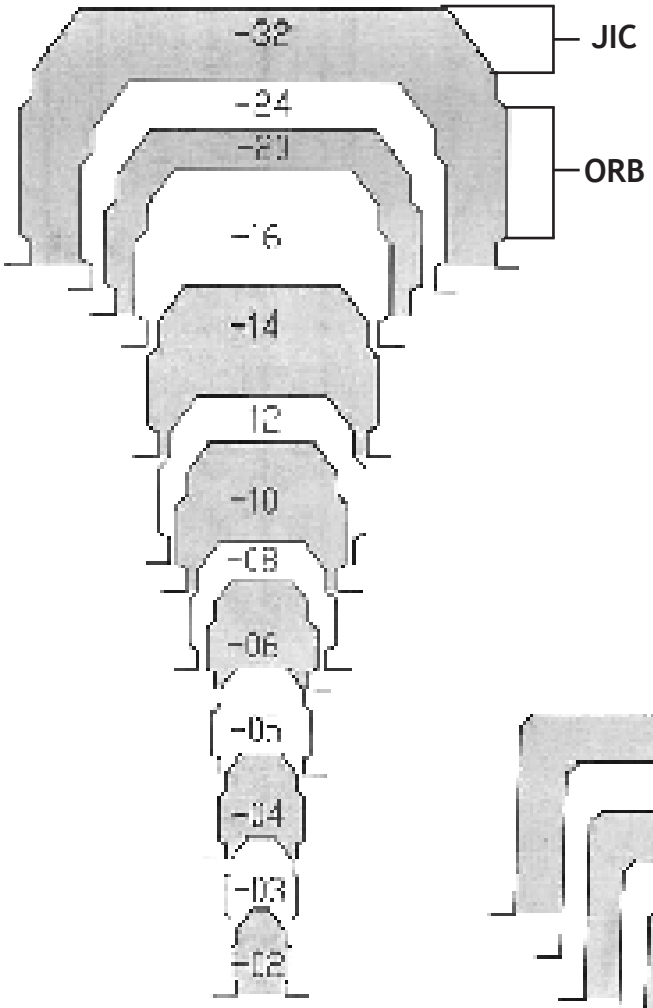
BSPP & BSPT Specifications				
Dash Size	BSPT & BSPP		Torque	
	THREAD SIZE	MAJOR OD*	BSPP Swivel Union	BSPT
		(inch)		
02	1/8-28	0.383	2	2-3
04	1/4-19	0.518	2	2-3
06	3/8-19	0.656	2	2-3
08	1/2-14	0.825	2	2-3
10	5/8-14	0.929	2	2-3
12	3/4-14	1.041	2	2-3
16	1-11	1.309	1 1/2	1 1/2 - 2 1/2
20	1 1/4-11	1.650	1 1/2	1 1/2 - 2 1/2
24	1 1/2-11	1.882	1 1/2	1 1/2 - 2 1/2
32	2-11	2.347	1 1/2	1 1/2 - 2 1/2

The following table lists the specifications for **Metric Adapters**

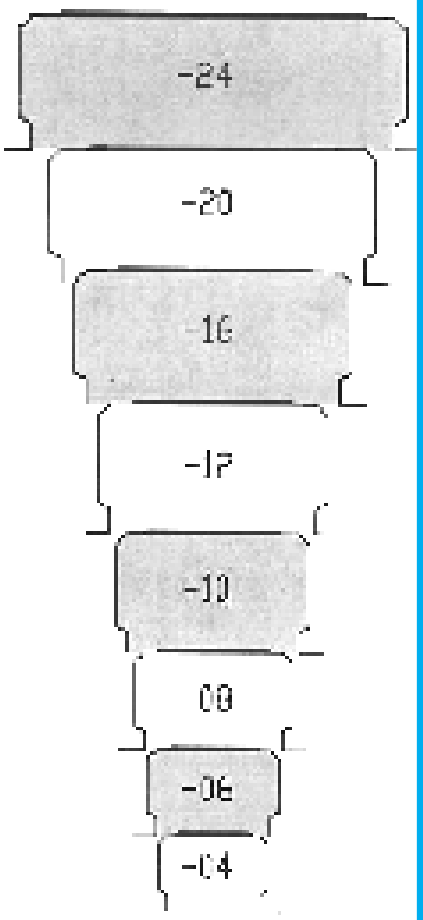
Metric DIN 3852-1 Threads	
Dash Size	THREAD SIZE
	(mm)
08	8 x 1.0
10	10 x 1.0
12	12 x 1.5
14	14 x 1.5
16	16 x 1.5
18	18 x 1.5
20	20 x 1.5
22	22 x 1.5
24	24 x 1.5
26	26 x 1.5
27	27 x 2.0
30	30 x 2.0
33	33 x 2.0
39	39 x 2.0
42	42 x 2.0
48	48 x 2.0
60	60 X 2.0
Values are from DIN 3852-1	

PROFILE SIZE CHART

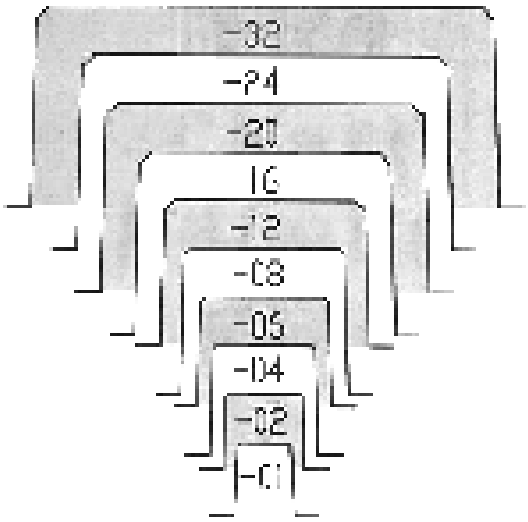
MALE JIC/ MALE O-RING BOSS

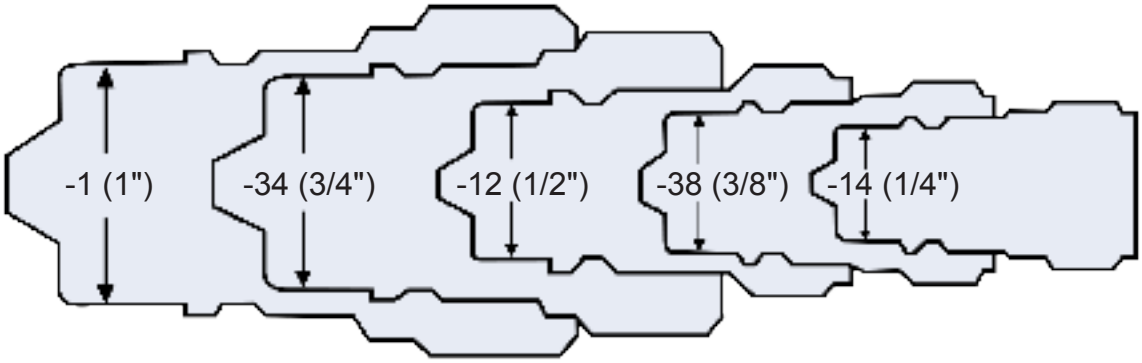


O-RING FACE SEAL

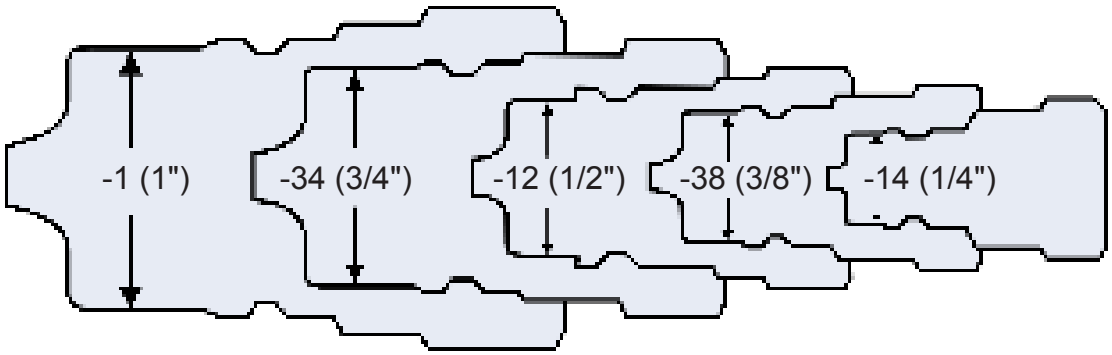


MALE PIPE

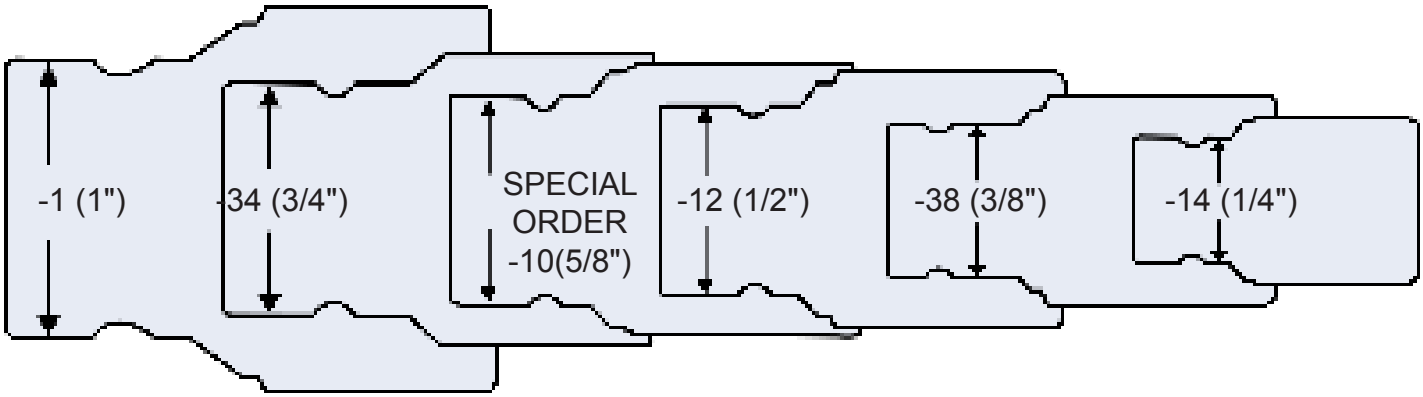




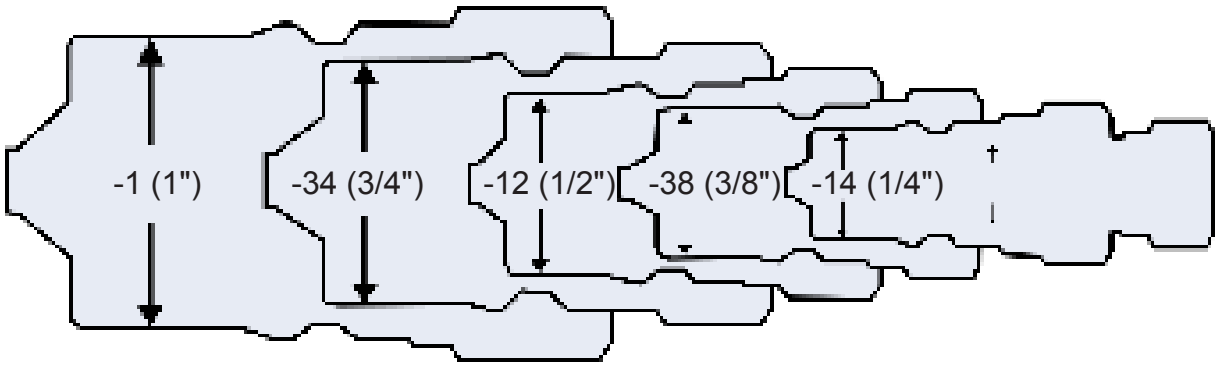
AG INTERCHANGE - NV SERIES



ISO 7241 - 1 - ISO A - ANV SERIES



ISO 16028 - FF SERIES



ISO 7241 - 1 ISO B - HNV SERIES

STEEL PIPE SWIVEL ADAPTERS

HYDRAULIC ADAPTERS

MALE PIPE SWIVEL ADAPTER

SAE 140130

1 2

PART #	MALE PIPE 1	FEMALE NPSM 2	LIST PRICE
140422	1/8	1/8	---
140442	1/4	1/8	---
140444	1/4	1/4	---
140464	3/8	1/4	---
140466	3/8	3/8	---
140468	3/8	1/2	---
140484	1/2	1/4	---
140486	1/2	3/8	---
140488	1/2	1/2	---
1404812	1/2	3/4	---
1404126	3/4	3/8	---
1404128	3/4	1/2	---
14041212	3/4	3/4	---
14041216	3/4	1	---
14041612	1	3/4	---
14041616	1	1	---
14041620	1	1-1/4	---
14042024	1-1/4	1-1/2	---
14042016	1-1/4	1	---
14042020	1-1/4	1-1/4	---
14042424	1-1/2	1-1/2	---
14043232	2	2	---

1404 **2045R** 1210 **9205R** 0107

FEMALE PIPE SWIVEL ADAPTER

SAE 140131

1 2

PART #	FEMALE PIPE 1	FEMALE NPSM 2	LIST PRICE
140522	1/8	1/8	---
140542	1/4	1/8	---
140544	1/4	1/4	---
140546	1/4	3/8	---
140564	3/8	1/4	---
140566	3/8	3/8	---
140586	1/2	3/8	----
140568	3/8	1/2	---
140584	1/2	1/4	---
140588	1/2	1/2	---
1405812	1/2	3/4	---
1405128	3/4	1/2	---
14051212	3/4	3/4	---
14051216	3/4	1	---
14051612	1	3/4	---
14051616	1	1	---
14052020	1-1/4	1-1/4	---
14052424	1-1/2	1-1/2	---
14053232	2	2	---

1405 **2046R** 1212 **9255** C207

MALE PIPE ELBOW SWIVEL ADAPTER

1

SAE 140230

2

PART #	MALE PIPE 1	FEMALE NPSM 2	LIST PRICE
150122	1/8	1/8	---
150124	1/8	1/4	---
150142	1/4	1/8	---
150144	1/4	1/4	---
150146	1/4	3/8	---
150148	1/4	1/2	---
150164	3/8	1/4	---
150166	3/8	3/8	---
1501612	3/8	3/4	---
150184	1/2	1/4	---
150186	1/2	3/8	---
150188	1/2	1/2	---
1501126	3/4	3/8	---
1501128	3/4	1/2	---
15011212	3/4	3/4	---
15011216	3/4	1	---
1501168	1	1/2	---
15011612	1	3/4	---
15011616	1	1	---
15012016	1-1/4	1	---
15012020	1-1/4	1-1/4	---
15013232	2	2	---

1501 **2047R** 1218 **9405** 2107

FEMALE UNION ELBOW SWIVEL ADAPTER

SAE 140231

1 2

PART #	FEMALE PIPE 1	FEMALE NPSM 2	LIST PRICE
150222	1/8	1/8	---
150242	1/4	1/8	---
150244	1/4	1/4	---
150246	1/4	3/8	---
150264	3/8	1/4	---
150266	3/8	3/8	---
150268	3/8	1/2	---
150284	1/2	1/4	---
150286	1/2	3/8	---
150288	1/2	1/2	---
1502812	1/2	3/4	---
1502128	3/4	1/2	---
15021212	3/4	3/4	---
15021616	1	1	---
15022020	1-1/4	1-1/4	---
15022424	1-1/2	1-1/2	---

1502 **2207** 1216 **94SSR**

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FEMALE PIPE SWIVELS
HYDRAULIC ADAPTERS

MALE 45° PIPE ELBOW SWIVEL ADAPTER
SAE 140330

PART #	MALE PIPE 1	FEMALE NPSM 2	LIST PRICE
150322	1/8	1/8	---
150344	1/4	1/4	---
150346	1/4	3/8	---
150364	3/8	1/4	---
150366	3/8	3/8	---
150368	3/8	1/2	---
150384	1/2	1/4	---
150386	1/2	3/8	---
150388	1/2	1/2	---
1503812	1/2	3/4	---
1503128	3/4	1/2	---
15031212	3/4	3/4	---
15031216	3/4	1	---
15031612	1	3/4	---
15031616	1	1	---
15031620	1	1-1/4	---
15032020	1-1/4	1-1/4	---

1503 **2049R** 3107 **1214** 9355R

FEMALE 45° UNION ELBOW SWIVEL ADAPTER
SAE 140331

PART #	FEMALE PIPE 1	FEMALE NPSM 2	LIST PRICE
150422	1/8	1/8	---
150444	1/4	1/4	---
150466	3/8	3/8	---
150488	1/2	1/2	---
15041212	3/4	3/4	---
15041616	1	1	---

1504 **2050R** 1249 **9385R**

MALE SWIVEL BRANCH TEE

PART #	FEMALE NPSM 1 & 2	MALE PIPE 3	LIST PRICE
160122	1/8	1/8	---
160144	1/4	1/4	---
160166	3/8	3/8	---
160188	1/2	1/2	---
16011212	3/4	3/4	---
16011616	1	1	---

1601 **2254R** 1258 **9406R**

FEMALE SWIVEL TEE

PART #	FEMALE NPSM 1 & 2	FEMALE PIPE 3	LIST PRICE
160244	1/4	1/4	---
160266	3/8	3/8	---
160288	1/2	1/2	---
16021212	3/4	3/4	---
16021616	1	1	---

1602 **2253R** 1259 **9456R**

FEMALE SWIVEL UNION TEE

PART #	FEMALE NPSM 1,2 & 3	LIST PRICE
160344	1/4	---
160366	3/8	---
160388	1/2	---
16031212	3/4	---
16031616	1	---

1603 **2255** 1223 **9705R**

STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

LONG JIC TUBE NUT

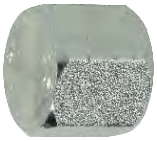
SAE 070111

PART #	TUBE O.D	JIC THREAD SIZE	LIST PRICE
03044	1/4	7/16-20	---
03046	3/8	9/16-18	---
03048	1/2	3/4-16	---
030410	5/8	7/8-14	---
030412	3/4	1-1/16-12	---
030416	1	1-5/16-12	---

304 **221000** 0304 **C5115**

CAP

SAE 070112
MS 51532



PART #	TUBE O.D.	JIC THREAD SIZE	LIST PRICE
0304C2	1/8	5/16-24	---
0304C3	3/16	3/8-24	---
0304C4	1/4	7/16-20	---
0304C5	5/16	1/2-20	---
0304C6	3/8	9/16-18	---
0304C8	1/2	3/4-16	---
0304C10	5/8	7/8-14	---
0304C12	3/4	1-1/16-12	---
0304C14	7/8	1-3/16-12	---
0304C16	1	1-5/16-12	---
0304C20	1-1/4	1-5/8-12	---
0304C24	1-1/2	1-7/8-12	---
0304C32	2	2-1/2-12	---

820 **304** 210292 **FNTX** 1329 **C5129**

JIC TUBE NUT

(SLEEVE REQUIRED)

SAE 070110
MS 51531

PART #	TUBE O.D	JIC THREAD SIZE	LIST PRICE
03182	1/8	5/16-24	---
03183	3/16	3/8-24	---
03184	1/4	7/16-20	---
03185	5/16	1/2-20	---
03186	3/8	9/16-18	---
03188	1/2	3/4-16	---
031810	5/8	7/8-14	---
031812	3/4	1-1/16-12	---
031814	7/8	1-3/16-12	---
031816	1	1-5/16-12	---
031820	1-1/4	1-5/8-12	---
031824	1-1/2	1-7/8-12	---

318 **1290** BTX **1311** C5105

JIC TUBE SLEEVE

SAE 070115
MS 51533

PART #	TUBE O.D	LIST PRICE
03192	1/8	---
03193	3/16	---
03194	1/4	---
03195	5/16	---
03196	3/8	---
03198	1/2	---
031910	5/8	---
031912	3/4	---
031914	7/8	---
031916	1	---
031920	1-1/4	---
031924	1-1/2	---
031932	2	---

319 **900605** TX **1253** C5165

JIC TUBE UNION

SAE 070101
MS 51501

1

2

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	LIST PRICE
240322	5/16-24	5/16-24	---
240333	3/8-24	3/8-24	---
240344	7/16-20	7/16-20	---
240355	1/2-20	1/2-20	---
240366	9/16-18	9/16-18	---
240364	9/16-18	7/16-20	---
240384	3/4-16	7/16-20	---
240388	3/4-16	3/4-16	---
240386	3/4-16	9/16-18	---
24031010	7/8-14	7/8-14	---
2403108	7/8-14	3/4-16	---
24031212	1-1/16-12	1-1/16-12	---
2403126	1-1/16-12	9/16-18	----
2403128	1-1/16-12	3/4-16	---
24031210	1-1/16-12	7/8-14	---
24031414	1-3/16-12	1-3/16-12	---
24031616	1-5/16-12	1-5/16-12	---
24031612	1-5/16-12	1-1/16-12	---
24032016	1-5/8-12	1-5/16-12	---
24032020	1-5/8-12	1-5/8-12	---
240324	1-7/8-12	1-7/8-12	---
240332	2-1/2-12	2-1/2-12	---

2403 **2027** HTX **1204** C5305

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

JIC MALE CONNECTOR

SAE 070102
MS 51500

PART #	JIC THREAD SIZE 1	MALEPIPE THREAD 2	LIST PRICE
240422	5/16-24	1/8	---
240432	3/8-24	1/8	---
240434	3/8-24	1/4	---
240442	7/16-20	1/8	---
240444	7/16-20	1/4	---
240446	7/16-20	3/8	---
240448	7/16-20	1/2	---
240462	9/16-18	1/8	---
240464	9/16-18	1/4	---
240466	9/16-18	3/8	---
240468	9/16-18	1/2	---
2404612	9/16-18	3/4	---
240484	3/4-16	1/4	---
240486	3/4-16	3/8	---
240488	3/4-16	1/2	---
2404812	3/4-16	3/4	---
2404816	3/4-16	1	---
2404104	7/8-14	1/4	---
2404106	7/8-14	3/8	----
2404108	7/8-14	1/2	---
24041012	7/8-14	3/4	---
2404126	1-1/16-12	3/8	---
2404128	1-1/16-12	1/2	---
24041212	1-1/16-12	3/4	---
24041216	1-1/16-12	1	---
24041612	1-5/16-12	3/4	---
24041616	1-5/16-12	1	---
24041620	1-5/16-12	1-1/4	----
24041624	1-5/16-12	1-1/2	---
24042012	1-5/8-12	3/4	---
24042016	1-5/8-12	1	---
24042020	1-5/8-12	1-1/4	---
24042024	1-5/8-12	1-1/2	---
24042416	1-7/8-12	1	---
24042420	1-7/8-12	1-1/4	---
24042424	1-7/8-12	1-1/2	---
24042432	1-7/8-12	2	---
24043224	2-1/2-12	1-1/2	---
24043232	2-1/2-12	2	---

2404 **2021R** FTX **1202R** C5205 **816**

JIC FEMALE CONNECTOR

SAE 070103
MS 51503

PART #	JIC THREAD SIZE 1	FEMALE PIPE SIZE 2	LIST PRICE
240522	5/16-24	1/8	---
240532	3/8-24	1/8	---
240542	7/16-20	1/8	---
240544	7/16-20	1/4	---
240546	7/16-20	3/8	---
240564	9/16-18	1/4	---
240566	9/16-18	3/8	---
240584	3/4-16	1/4	---
240586	3/4-16	3/8	---
240588	3/4-16	1/2	---
2405812	3/4-16	3/4	---
2405106	7/8-14	3/8	---
2405108	7/8-14	1/2	---
2405128	1-1/16-12	1/2	---
24051212	1-1/16-12	3/4	---
24051216	1-1/16-12	1	---
24051612	1-5/16-12	3/4	---
24051616	1-5/16-12	1	---
24052020	1-5/8-12	1-1/4	---

2405 **2022R** GTX **1230R** C5255

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

JIC REDUCER/ EXPANDER

SAE 070123 1

2

PART #	FEMALE JIC THREAD SIZE 1	MALE JIC THREAD SIZE 2	LIST PRICE
240664	9/16-18	7/16-20	---
240665	9/16-18	1/2-20	---
240668	9/16-18	3/4-16	---
240684	3/4-16	7/16-20	---
240686	3/4-16	9/16-18	---
2406812	3/4-16	1-1/16-12	---
2406104	7/8-14	7/16-20	---
2406106	7/8-14	9/16-18	---
2406108	7/8-14	3/4-16	---
2406124	1-1/16-12	7/16-20	---
2406126	1-1/16-12	9/16-18	---
2406128	1-1/16-12	3/4-16	---
24061210	1-1/16-12	7/8-14	---
24061216	1-1/16-12	1-5/16-12	----
2406164	1-5/16-12	7/16-20	---
2406166	1-5/16-12	9/16-18	---
2406168	1-5/16-12	3/4-16	---
24061612	1-5/16-12	1-1/16-12	---
24061620	1-5/16-12	1-5/8-12	---
2406208	1-5/8-12	3/4-16	---
24062012	1-5/8-12	1-1/16-12	---
24062012	1-5/8-12	1-1/16-12	---
24062016	1-5/8-12	1-5/16-12	---
24062416	1-7/8-12	1-5/16-12	---
24062420	1-7/8-12	1-5/8-12	---
24063224	2-1/2-12	1-7/8-12	---

2406 **C5015** 2215 **TRTX** 1246

PLUG

SAE 070109
MS 51518

PART #	TUBE O.D.	JIC THREAD SIZE	LIST PRICE
24082	1/8	5/16-24	---
24083	3/16	3/8-24	---
24084	1/4	7/16-20	---
24085	5/16	1/2-20	---
24086	3/8	9/16-18	---
24088	1/2	3/4-16	---
240810	5/8	7/8-14	---
240812	3/4	1-1/16-12	---
240814	7/8	1-3/16-12	---
240816	1	1-5/16-12	---
240820	1-1/4	1-5/8-12	---
240824	1-1/2	1-7/8-12	---
240832	2	2-1/2-12	---

2408 **430549** PNTX **1254** C5229

STEEL 37° JIC FLARE SHAPES

JIC UNION ELBOW

SAE 070201
MS 51505

1

2

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	LIST PRICE
250022	5/16-24	5/16-24	---
250044	7/16-20	7/16-20	---
250055	1/2-20	1/2-20	---
250066	9/16-18	9/16-18	---
250064	9/16-18	7/16-20	---
250088	3/4-16	3/4-16	---
250086	3/4-16	9/16-18	---
25001010	7/8-14	7/8-14	---
25001212	1-1/16-12	1-1/16-12	---
25001612	1-5/16-12	1-1/16-12	---
25001616	1-5/16-12	1-5/16-12	---
25002020	1-5/8-12	1-5/8-12	---
25002424	1-7/8-12	1-7/8-12	---
25003232	2-1/2-12	2-1/2-12	---

2500 **2039** 1234 **C5505** 821

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

JIC MALE ELBOW

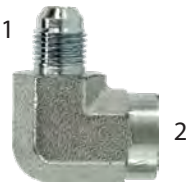
SAE 070202
MS 51504

PART #	JIC THREAD SIZE 1	MALE PIPE SIZE 2	LIST PRICE
250122	5/16-24	1/8	---
250142	7/16-20	1/8	---
250144	7/16-20	1/4	---
250146	7/16-20	3/8	---
250148	7/16-20	1/2	---
250162	9/16-18	1/8	---
250164	9/16-18	1/4	---
250166	9/16-18	3/8	---
250168	9/16-18	1/2	---
2501612	9/16-18	3/4	---
250184	3/4-16	1/4	---
250186	3/4-16	3/8	---
250188	3/4-16	1/2	---
2501812	3/4-16	3/4	---
2501816	3/4-16	1	---
2501106	7/8-14	3/8	---
2501108	7/8-14	1/2	---
2501128	1-1/16-12	1/2	---
25011212	1-1/16-12	3/4	---
25011216	1-1/16-12	1	---
25011612	1-5/16-12	3/4	---
25011616	1-5/16-12	1	---
25011620	1-5/16-12	1-1/4	---
25012016	1-5/8-12	1	---
25012020	1-5/8-12	1-1/4	---
25012024	1-5/8-12	1-1/2	---
25012420	1-7/8-12	1-1/4	---
25012424	1-7/8-12	1-1/2	---
25013232	2-1/2-12	2	---

1208R **C5405** 2501 **2024R** CTX **822**

JIC FEMALE ELBOW

SAE 070203
MS 51506



PART #	JIC THREAD SIZE 1	FEMALE PIPE SIZE 2	LIST PRICE
250242	7/16-20	1/8	---
250244	7/16-20	1/4	---
250246	7/16-20	3/8	---
250262	9/16-18	1/8	---
250264	9/16-18	1/4	---
250266	9/16-18	3/8	---
250268	9/16-18	1/2	---
250284	3/4-16	1/4	---
250286	3/4-16	3/8	---
250288	3/4-16	1/2	---
2502128	1-1/16-12	1/2	---
25021212	1-1/16-12	3/4	---
25021612	1-5/16-12	3/4	---
25021616	1-5/16-12	1	---
25022020	1-5/8-12	1-1/4	---

2502 **2025R** DTX **1240R** C5455

JIC MALE 45° ELBOW

SAE 070302
MS 51508

PART #	JIC THREAD SIZE 1	MALE PIPE SIZE 2	LIST PRICE
250322	5/16-24	1/8	---
250342	7/16-20	1/8	---
250344	7/16-20	1/4	---
250346	7/16-20	3/8	---
250362	9/16-18	1/8	---
250364	9/16-18	1/4	---
250366	9/16-18	3/8	---
250368	9/16-18	1/2	---
2503612	9/16-18	3/4	---
250384	3/4-16	1/4	---
250386	3/4-16	3/8	---
250388	3/4-16	1/2	---
2503106	7/8-14	3/8	---
2503108	7/8-14	1/2	---
25031012	7/8-14	3/4	---
25031212	1-1/16-12	3/4	---
25031216	1-1/16-12	1	---
25031616	1-5/16-12	1	---
25031620	1-5/16-12	1-1/4	---
25032016	1-5/8-12	1	---
25032020	1-5/8-12	1-1/4	---

2503 **2023R** VTX **1206R** C5355 **823**

SHAPES STEEL JIV FLARE 37°
HYDRAULIC ADAPTERS

JIC MALE BRANCH TEE

PART #	JIC THREAD SIZE 1&2	PIPE THREAD SIZE 3	LIST PRICE
260144	7/16-20	1/4	---
260166	9/16-18	3/8	---
260188	3/4-16	1/2	---
26011212	1-1/16-12	3/4	---

2601 **2030R** STX **1221R** C5605

JIC FEMALE BRANCH TEE

SAE 070427
MS 51513

PART #	JIC THREAD SIZE 1 & 2	FEMALE PIPE SIZE 3	LIST PRICE
260244	7/16-20	1/4	---
260266	9/16-18	3/8	---
260288	3/4-16	1/2	---

2602 **2031R** OTX **1228R** C6566

JIC UNION TEE

SAE 070401
MS 51510

PART #	JIC THREAD SIZE 1 & 2	JIC THREAD SIZE 3	LIST PRICE
260322	5/16-24	5/16-24	---
260333	3/8-24	3/8-24	---
260344	7/16-20	7/16-20	---
260366	9/16-18	9/16-18	---
260388	3/4-16	3/4-16	---
26031010	7/8-14	7/8-14	---
26031212	1-1/16-12	1-1/16-12	---
26031616	1-5/16-12	1-5/16-12	---

2603 **2033** JTX **1220** C5705

STEEL BULKHEAD FITTINGS

LOCK NUT

SAE 070118
MS 51860

*** Lock Nut no longer included on fittings**

PART #	THREAD SIZE	LIST PRICE
03062	5/16-24	---
03064	7/16-20	---
03065	1/2-20	---
03066	9/16-18	---
03068	3/4-16	---
030610	7/8-14	---
030612	1-1/16-12	---
030614	1-3/16-12	---
030616	1-5/16-12	---
030620	1-5/8-12	---

1306 **894** 210212 **WLN** 1332 **C5624**

JIC BULKHEAD UNION

SAE 070601
MS 51520

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	LIST PRICE
270022	5/16-24	5/16-24	----
270044	7/16-20	7/16-20	---
270055	1/2-20	1/2-20	---
270066	9/16-18	9/16-18	---
27008	3/4-16	3/4-16	---
270010	7/8-14	7/8-14	---
270012	1-1/16-12	1-1/16-12	---
270014	1-3/16-12	1-3/16-12	---
270016	1-5/16-12	1-5/16-12	---

2700 **2041R** WTX **1260** C5325

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

JIC BULKHEAD UNION ELBOW

SAE 070701
MS 51507

PART #	JIC THREAD SIZE 1	JIC BULKHEAD THREAD 2	LIST PRICE
27014	7/16-20	7/16-20	---
27015	1/2-20	1/2-20	---
27016	9/16-18	9/16-18	---
27018	3/4-16	3/4-16	---
270110	7/8-14	7/8-14	---
270112	1-1/16-12	1-1/16-12	---
270116	1-5/16-12	1-5/16-12	---
270120	1-5/8-12	1-5/8-12	---

2701 **2043R** WETX **1262** C5525

JIC BULKHEAD UNION 45° ELBOW

SAE 070801
MS 51509

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	LIST PRICE
27024	7/16-20	7/16-20	---
27026	9/16-18	9/16-18	---
27028	3/4-16	3/4-16	---
270210	7/8-14	7/8-14	---
270212	1-1/16-12	1-1/16-12	---
270216	1-5/16-12	1-5/16-12	---

2702 **2042** WNTX **1261** C5375

JIC BULKHEAD BRANCH TEE

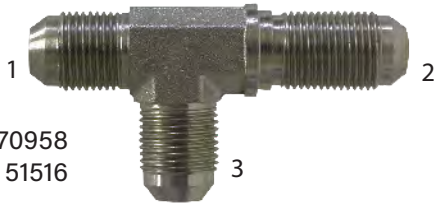
SAE 070959
MS 51515

PART #	JIC THREAD SIZE 1&2	JIC THREAD SIZE 3	LIST PRICE
27034	7/16-20	7/16-20	---
27036	9/16-18	9/16-18	---
27038	3/4-16	3/4-16	---
270310	7/8-14	7/8-14	---
270312	1-1/16-12	1-1/16-12	---
270316	1-5/16-12	1-5/16-12	---

2703 **203002** WJT 1283 **C5725**

JIC BULKHEAD RUN TEE

SAE 070958
MS 51516



PART #	JIC THREAD SIZE 1&3	JIC THREAD SIZE 2	LIST PRICE
27044	7/16-20	7/16-20	---
27046	9/16-18	9/16-18	---
27048	3/4-16	3/4-16	---
270410	7/8-14	7/8-14	---
270412	1-1/16-12	1-1/16-12	---
270416	1-5/16-12	1-5/16-12	---

2704 **203008** WJJT **1284** C5726

JIC TO FEMALE PIPE BULKHEAD

PART #	JIC THREAD SIZE 1	FEMALE PIPE SIZE 2	LIST PRICE
270544	7/16-20		---
270566	9/16-18	3/8	---
270588	3/4-16	1/2	---
27051212	1-1/16-12	3/4	---
27051616	1-5/16-12	1	---
27052020	1-5/8-12	1-1/4	---

2705 **2239** WGTX **C5275**

JIC TO MALE PIPE BULKHEAD

PART #	JIC THREAD SIZE 1	PIPE THREAD SIZE 2	LIST PRICE
270644	7/16-20	1/4	---
270666	9/16-18	3/8	---
270688	3/4-16	1/2	---
27061212	1-1/16-12	3/4	---
27061616	1-5/16-12	1	---

2706 **2240**

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

**** Lock Nuts sold separately - pg. 403***

STEEL PIPE FITTINGS
HYDRAULIC ADAPTERS

PIPE COUPLING

SAE 140138

PART #	FEMALE PIPE 1	FEMALE PIPE 2	LIST PRICE
50002	1/8	1/8	---
500042	1/4	1/8	---
50004	1/4	1/4	---
500064	3/8	1/4	---
500066	3/8	3/8	---
500084	1/2	1/4	---
500086	1/2	3/8	---
50008	1/2	1/2	---
5000128	3/4	1/2	---
50001212	3/4	3/4	---
5000168	1	1/2	---
50001612	1	3/4	---
500016	1	1	---
50002020	1-1/4	1-1/4	---
500024	1-1/2	1-1/2	---
500032	2	2	---

910

5000 **2096** GG **1273** C3309

HEX PIPE NIPPLES

SAE 140137

PART #	MALE PIPE 1	MALE PIPE 2	LIST PRICE
54042	1/8	1/8	---
540442	1/4	1/8	---
54044	1/4	1/4	---
540462	3/8	1/8	---
540464	3/8	1/4	---
54046	3/8	3/8	---
540484	1/2	1/4	---
540486	1/2	3/8	---
54048	1/2	1/2	---
5404126	3/4	3/8	---
5404128	3/4	1/2	---
540412	3/4	3/4	---
5404166	1	3/8	---
5404168	1	1/2	---
54041612	1	3/4	---
540416	1	1	---
54042012	1-1/4	3/4	----
54042016	1-1/4	1	---
540420	1-1/4	1-1/4	---
54042412	1-1/2	3/4	---
54042416	1-1/2	1	---
54042420	1-1/2	1-1/4	---
540424	1-1/2	1-1/2	---

5404 **2083** FF **1252** C3069 **911**

EXPANDING PIPE ADAPTER

SAE 140139

PART #	MALE PIPE 1	FEMALE PIPE 2	LIST PRICE
540522	1/8	1/8	---
540524	1/8	1/4	---
540542	1/4	1/8	---
540544	1/4	1/4	---
540548	1/4	1/2	---
540564	3/8	1/4	---
540566	3/8	3/8	---
540568	3/8	1/2	---
5405612	3/8	3/4	---
540588	1/2	1/2	---
5405812	1/2	3/4	---
5405816	1/2	1	---
54051212	3/4	3/4	---
54051216	3/4	1	---
54051220	3/4	1-1/4	---
54051616	1	1	---
54051620	1	1-1/4	---
54052020	1-1/4	1-1/4	---
54052024	1-1/4	1-1/2	---
54052424	1-1/2	1-1/2	---

920 **5405** 2040 **FG-(R)** 1274 **C3209(R)**

5406 **2081** PTR **1250** C3109 **912**

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

STEEL PIPE FITTINGS
HYDRAULIC ADAPTERS

HEX REDUCER BUSHING

SAEF1
140140

PART #	MALE PIPE	FEMALE PIPE	LIST PRICE
540642	1/4	1/8	---
540662	3/8	1/8	---
540664	3/8	1/4	---
540682	1/2	1/8	---
540684	1/2	1/4	---
540686	1/2	3/8	---
5406124	3/4	1/4	---
5406126	3/4	3/8	---
5406128	3/4	1/2	---
5406164	1	1/4	---
5406166	1	3/8	---
5406168	1	1/2	---
54061612	1	3/4	---
5406206	1-1/4	3/8	---
5406208	1-1/4	1/2	---
54062012	1-1/4	3/4	---
54062016	1-1/4	1	---
5406248	1-1/2	1/2	---
54062412	1-1/2	3/4	---
54062416	1-1/2	1	---
54062420	1-1/2	1-1/4	---
54063212	2	3/4	---
54063216	2	1	---
54063220	2	1-1/4	---

HEX HEAD PLUG

SAE 130109E

PART #	MALE PIPE	LIST PRICE
5406P2	1/8	---
5406P4	1/4	---
5406P6	3/8	---
5406P8	1/2	---
5406P12	3/4	---
5406P16	1	---
5406P20	1-1/4	---
5406P24	1-1/2	---
5406P32	2	---

933 **5406P** 2082 **HP** 1251 **C3159**

HOLLOW HEX PLUG

SAE 130109

PART #	MALE PIPE	LIST PRICE
5406HHP2	1/8	---
5406HHP4	1/4	---
5406HHP6	3/8	---
5406HHP8	1/2	---
5406HHP12	3/4	---
5406HHP16	1	---
5406HHP20	1-1/4	---
5406HHP24	1-1/2	---

C3169 **2222**

FLUSH HOLLOW HEX PLUG W/ 7/8 TAPER

PART #	MALE PIPE	LIST PRICE
5406FLP2	1/8	---
5406FLP4	1/4	---
5406FLP6	3/8	---
5406FLP8	1/2	---
5406FLP12	3/4	---

SQUARE HEAD PLUG

SAE 130109A

PART #	MALE PIPE	LIST PRICE
5406SHP2	1/8	---
5406SHP4	1/4	---
5406SHP6	3/8	---
5406SHP8	1/2	---
5406SHP12	3/4	---
5406SHP16	1	---
5406SHP20	1-1/4	---
5406SHP24	1-1/2	---
5406SHP32	2	---

C3179

PIPE CAP

PART #	FEMALE PIPE	LIST PRICE
5406C2	1/8	---
5406C4	1/4	---
5406C6	3/8	---
5406C8	1/2	---
5406C12	3/4	---
5406C16	1	---

HPC

MALE ELBOW

SAE 140237

PART #	MALE PIPE 1	MALE PIPE 2	LIST PRICE
55002	1/8	1/8	---
550042	1/4	1/8	---
55004	1/4	1/4	---
550064	3/8	1/4	---
55006	3/8	3/8	---
550084	1/2	1/4	---
550086	1/2	3/8	---
55008	1/2	1/2	---
5500128	3/4	1/2	---
55001212	3/4	3/4	---
55001612	1	3/4	---
550016	1	1	---
55001612	1	3/4	---
55002016	1-1/4	1	---
55002020	1-1/4	1-1/4	---
550024	1-1/2	1-1/2	---
550032	2	2	---

919 **5500** 2085 **CR** 1275 **C3529**

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL PIPE FITTINGS
HYDRAULIC ADAPTERS

45° MALE ELBOW

PART #	MALE PIPE 1	MALE PIPE 2	LIST PRICE
550122	1/8	1/8	---
550144	1/4	1/4	---
550166	3/8	3/8	---
55018	1/2	1/2	---
55011212	3/4	3/4	---
55011616	1	1	---

5501 **2247**

90° STREET ELBOW

SAE 140239

PART #	MALE PIPE 1	FEMALE PIPE 2	LIST PRICE
55022	1/8	1/8	---
55024	1/4	1/4	---
550264	3/8	1/4	---
55026	3/8	3/8	---
550268	3/8	1/2	---
550284	1/2	1/4	---
550286	1/2	3/8	---
550288	1/2	1/2	---
550212	3/4	3/4	---
5502812	1/2	3/4	---
5502128	3/4	1/2	---
55021612	1	3/4	---
55021616	1	1	---
550220	1-1/4	1-1/4	---
550224	1-1/2	1-1/2	---

5502 **2089** CD **1234R** C3409 **914**

45° STREET ELBOW

SAE 140339

PART #	MALE PIPE 1	FEMALE PIPE 2	LIST PRICE
55032	1/8	1/8	---
55034	1/4	1/4	---
55036	3/8	3/8	---
55038	1/2	1/2	---
55031212	3/4	3/4	---

5503 **CD45** 1244

FEMALE ELBOW

SAE 140238

PART #	FEMALE PIPE 1	FEMALE PIPE 2	LIST PRICE
55042	1/8	1/8	---
550442	1/4	1/8	---
55044	1/4	1/4	---
55046	3/8	3/8	---
550484	1/2	1/4	---
550486	1/2	3/8	---
55048	1/2	1/2	---
5504128	3/4	1/2	---
550412	3/4	3/4	---
55041612	1	3/4	---
550416	1	1	---
550420	1-1/4	1-1/4	---
550424	1-1/2	1-1/2	---

5504 **2087** DD **1245** C3509 **916**

45° FEMALE ELBOW

SAE 140338

PART #	FEMALE PIPE 1	FEMALE PIPE 2	LIST PRICE
55054	1/4	1/4	---
55056	3/8	3/8	---
55058	1/2	1/2	---
550512	3/4	3/4	---
550516	1	1	---
550520	1-1/4	1-1/4	---

5505 **DD45** 1241 **C3559**

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

MALE PIPE TEE

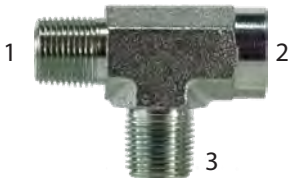
SAE 140437

PART #	MALE PIPE 1 & 2	MALE PIPE 3	LIST PRICE
560022	1/8	1/8	---
560044	1/4	1/4	---
560066	3/8	3/8	---
560088	1/2	1/2	---
560012	3/4	3/4	---
560016	1	1	---

5600 **2257** RRS

FEMALE RUN PIPE TEE

SAE 1404276

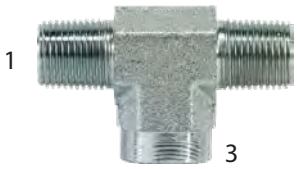


PART #	MALE PIPE 1 & 3	FEMALE PIPE 2	LIST PRICE
560322	1/8	1/8	---
560344	1/4	1/4	---
560366	3/8	3/8	---
560388	1/2	1/2	---
560312	3/4	3/4	---
560316	1	1	---

5603 **2093** MMO **1277**

FEMALE BRANCH PIPE TEE

SAE 140427



PART #	MALE PIPE 1 & 2	FEMALE PIPE 3	LIST PRICE
560122	1/8	1/8	---
560144	1/4	1/4	---
560166	3/8	3/8	---
560112	3/4	3/4	---
560116	1	1	---

901 **5601** 2256

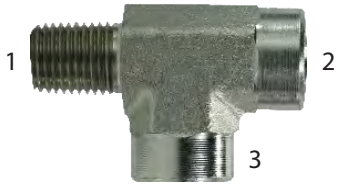
MALE BRANCH PIPE TEE

PART #	FEMALE PIPE 1 & 2	MALE PIPE 3	LIST PRICE
560422	1/8	1/8	---
560444	1/4	1/4	---
560466	3/8	3/8	---
560488	1/2	1/2	---
560412	3/4	3/4	---
560416	1	1	---

904 **5604** 2091 **MMS** 1278 **C3609**

STREET PIPE TEE

SAE 140424



PART #	MALE PIPE 1	FEMALE PIPE 2 & 3	LIST PRICE
560222	1/8	1/8	---
560244	1/4	1/4	---
560266	3/8	3/8	---
560288	1/2	1/2	---
560212	3/4	3/4	---
560216	1	1	---

902 **5602** 2092 **MRO** 1276 **C3759**

FEMALE PIPE TEE

SAE 140438

PART #	FEMALE PIPE	LIST PRICE
560522	1/8	---
560544	1/4	---
560566	3/8	---
56058	1/2	---
560512	3/4	---
560516	1	---
560520	1-1/4	---

917 **5605** 2090 **1225** C3709

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STEEL O-RING ADAPTERS

HYDRAULIC ADAPTERS

JIC TO O-RING CONNECTOR

SAE 070120
MS 51525

PART #	JIC THREAD SIZE 1	O-RING THREAD 2	LIST PRICE
64002	5/16-24	5/16-24	---
64003	3/8-24	3/8-24	---
64004	7/16-20	7/16-20	---
640042	7/16-20	5/16-24	---
640046	7/16-20	9/16-18	---
640048	7/16-20	3/4-16	---
64005	1/2-20	1/2-20	---
64006	9/16-18	9/16-18	---
640064	9/16-18	7/16-20	---
640068	9/16-18	3/4-16	---
6400610	9/16-18	7/8-14	---
6400612	9/16-18	1-1/16-12	---
6400616	9/16-18	1-5/16-12	---
64008	3/4-16	3/4-16	---
640084	3/4-16	7/16-20	---
640086	3/4-16	9/16-18	---
6400810	3/4-16	7/8-14	---
6400812	3/4-16	1-1/16-12	---
640010	7/8-14	7/8-14	---
6400106	7/8-14	9/16-18	---
6400108	7/8-14	3/4-16	---
64001012	7/8-14	1-1/16-12	---
640012	1-1/16-12	1-1/16-12	---
6400128	1-1/16-12	3/4-16	---
64001210	1-1/16-12	7/8-14	---
64001214	1-1/16-12	1-3/16-12	---
64001216	1-1/16-12	1-5/16-12	---
640016	1-5/16-12	1-5/16-12	---
64001612	1-5/16-12	1-1/16-12	---
64001620	1-5/16-12	1-5/8-12	---
64001624	1-5/16-12	1-7/8-12	---
640020	1-5/8-12	1-5/8-12	---
64002012	1-5/8-12	1-1/16-12	---
64002016	1-5/8-12	1-5/16-12	---
64002024	1-5/8-12	1-7/8-12	---
640024	1-7/8-12	1-7/8-12	---
64002420	1-7/8-12	1-5/8-12	---
64002432	1-7/8-12	2-1/2-12	---
640032	2-1/2-12	2-1/2-12	---
64003224	2-1/2-12	1-7/8-12	---

6400 **202702R** F50X **1231** C5315

O-RING TO PIPE ADAPTER

PART #	O-RING THREAD 1	MALE PIPE THREAD 2	LIST PRICE
640142	7/16-20	1/8	---
640144	7/16-20	1/4	---
640164	9/16-18	1/4	---
640166	9/16-18	3/8	---
640186	3/4-16	3/8	---
640188	3/4-16	1/2	---
6401812	3/4-16	3/4	---
6401108	7/8-14	1/2	---
6401128	1-1/16-12	1/2	---
64011212	1-1/16-12	3/4	---
64011616	1-5/16-12	1	---
64012020	1-5/8-12	1-1/4	---
64012020	1-5/8-12	1-1/4	---
64012424	1-7/8-12	1-1/2	---

6401 **F5X** 1264R **C3249**

0-RING TO 37° JIC - SWIVEL ADAPTER

PART #	O-RING THREAD 1	JIC THREAD SIZE 2	LIST PRICE
6402O44	7/16-20	7/16-20	---
6402O66	9/16-18	9/16-18	---
6402O68	9/16-18	3/4-16	---
6402O88	3/4-16	3/4-16	---
6402O86	3/4-16	9/16-18	---
6402O1010	7/8-14	7/8-14	---
6402O1212	1-1/16-12	1-1/16-12	---

6402 **2266** F65X **1213** 9316

O-RING HEX NIPPLE UNION

PART #	O-RING THRD 1	O-RING THRD 2	LIST PRICE
6403O4	7/16-20	7/16-20	---
6403O6	9/16-18	9/16-18	---
6403O8	3/4-16	3/4-16	---
6403O12	1-1/16-12	1-1/16-12	---

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STEEL O-RING ADAPTERS

HYDRAULIC ADAPTERS

FEMALE O-RING TO MALE PIPE ADAPTER

PART #	O-RING THREAD 1	MALE PIPE THREAD 2	LIST PRICE
640442	7/16-20	1/8	---
640444	7/16-20	1/4	---
640464	9/16-18	1/4	---
640466	9/16-18	3/8	---
640468	9/16-18	1/2	---
640486	3/4-16	3/8	---
640488	3/4-16	1/2	---
6404108	7/8-14	1/2	---
64041212	1-1/16-12	3/4	---
64041616	1-5/16-12	1	---

6404 **2246R** 1267R **C3239** FHG5

O-RING TO FEMALE PIPE ADAPTER

PART #	O-RING THREAD 1	FEMALE PIPE THREAD 2	LIST PRICE
6405O22	5/16-24	1/8	---
6405O42	7/16-20	1/8	---
6405O32	3/8-24	1/8	---
6405O34	3/8-24	1/4	---
6405O44	7/16-20	1/4	---
6405O52	1/2-20	1/8	---
6405O54	1/2-20	1/4	---
6405O62	9/16-18	1/8	---
6405O64	9/16-18	1/4	---
6405O66	9/16-18	3/8	---
6405O68	9/16-8	1/2	---
6405O84	3/4-16	1/4	---
6405O86	3/4-16	3/8	---
6405O88	3/4-16	1/2	---
6405O812	3/4-16	3/4	---
6405O104	7/8-14	1/4	---
6405O106	7/8-14	3/8	---
6405O108	7/8-14	1/2	---
6405O126	1-1/16-12	3/8	---
6405O128	1-1/16-12	1/2	---
6405O1212	1-1/16-12	3/4	---
6405O1216	1-1/16-12	1	---
6405O1612	1-5/16-12	3/4	---
6405O1616	1-5/16-12	1	---
6405O2020	1-5/8-12	1-1/4	---
6405O2416	1-7/8-12	1	---
6405O2420	1-7/8-12	1-1/4	---
6405O2424	1-7/8-12	1-1/2	---
6405O3224	2-1/2-12	1-1/2	---
6405O3232	2-1/2-12	2	---

6405 **2216R** F50G **1268R** C3269

O-RING HEX HEAD PLUG

SAE 090109A

Not all sizes are solid

PART #	O-RING THREAD	LIST PRICE
6408O2	5/16-24	---
6408O4	7/16-20	---
6408O5	1/2-20	---
6408O6	9/16-18	---
6408O8	3/4-16	---
6408O10	7/8-14	---
6408O12	1-1/16-12	---
6408O14	1-3/16-12	---
6408O16	1-5/16-12	---
6408O20	1-5/8-12	---
6408O24	1-7/8-12	---

6408 **900598** P50N **1265** 7237

O-RING HOLLOW - HEX HEAD PLUG

SAE 090109B

PART #	O-RING THREAD	LIST PRICE
6408HO2	5/16-24	---
6408HO4	7/16-20	---
6408HO5	1/2-20	---
6408HO6	9/16-18	---
6408HO8	3/4-16	---
6408HO10	7/8-14	---
6408HO12	1-1/16-12	---
6408HO14	1-3/16-12	---
6408HO16	1-5/16-12	---
6408HO20	1-5/8-12	---
6408HO24	1-7/8-12	---

6408HHP **FF2138** HP50N **1256** 7238 **6409**

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FEMALE SWIVELS JIC
HYDRAULIC ADAPTERS

O-RING PORT REDUCER/EXPANDER

PART #	O-RING THREAD 1	O-RING THREAD 2	LIST PRICE
6410O46	7/16-20	9/16-18	---
6410O64	9/16-18	7/16-20	---
6410O68	9/16-18	3/4-16	---
6410O84	3/4-16	7/16-20	---
6410O86	3/4-16	9/16-18	---
6410O88	3/4-16	3/4-16	---
6410O812	3/4-16	1-1/16-12	---
6410O124	1-1/16-12	7/16-20	---
6410O126	1-1/16-12	9/16-18	---
6410O128	1-1/16-12	3/4-16	---
6410O166	1-5/16-12	9/16-18	---
6410O168	1-5/16-12	3/4-16	---
6410O1612	1-5/16-12	1-1/16-12	---
6410O2012	1-5/8-12	1-1/16-12	---
6410O2016	1-5/8-12	1-5/16-12	---
6410O2412	1-7/8-12	1-1/16-12	---
6410O2416	1-7/8-12	1-5/16-12	---
6410O2420	1-7/8-12	1-5/8-12	---
6410O3216	2-1/2-12	1-5/16-12	---
6410O3220	2-1/2-12	1-5/8-12	---
6410O3224	2-1/2-12	1-7/8-12	---

6410 **FF1010** F50G5 **1270** 7033

JIC SWIVEL NUT ELBOW

SAE 070221
MS 51521

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	LIST PRICE
65004	7/16-20	7/16-20	---
65006	9/16-18	9/16-18	---
65008	3/4-16	3/4-16	---
650086	3/4-16	9/16-18	---
650010	7/8-14	7/8-14	---
6500108	7/8-14	3/4-16	---
650012	1-1/16-12	1-1/16-12	---
650016	1-5/16-12	1-5/16-12	---
650020	1-5/8-12	1-5/8-12	----
650024	1-7/8-12	1-7/8-12	---
650032	2-1/2-12	2-1/2-12	---

6500 **2071R** C6X **1236** G5506

JIC SWIVEL TO MALE PIPE ELBOW

PART #	JIC THREAD SIZE 1	MALE PIPE THREAD 2	LIST PRICE
650142	7/16-20	1/8	---
650144	7/16-20	1/4	---
650164	9/16-18	1/4	---
650166	9/16-18	3/8	---
650186	3/4-16	3/8	---
650188	3/4-16	1/2	---
6501108	7/8-14	1/2	---
65011212	1-1/16-12	3/4	---
65011616	1-5/16-12	1	---
65012020	1-5/8-12	1-1/4	---
65012424	1-7/8-12	1-1/2	---
65013232	2-1/2-12	2	---

6501 **2250** 1247R **TF5406**

JIC SWIVEL 45° ELBOW

SAE 070321
MS 51522

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	LIST PRICE
65024	7/16-20		---
65026	9/16-18	9/16-18	---
65028	3/4-16	3/4-16	---
650210	7/8-14	7/8-14	---
650212	1-1/16-12	1-1/16-12	---
650216	1-5/16-12	1-5/16-12	---

JIC SWIVEL TO FEMALE - PIPE ELBOW

PART #	JIC THREAD SIZE 1	FEMALE PIPE THREAD 2	LIST PRICE
650344	7/16-20	1/4	---
650364	9/16-18	1/4	---
650366	9/16-18	3/8	---
650386	3/4-16	3/8	---
650388	3/4-16	1/2	---
65031212	1-1/16-12	3/4	---

6502 **2070R** V6X **1237** C5356

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FEMALE SWIVELS
HYDRAULIC ADAPTERS

JIC SWIVEL CONNECTOR

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	LIST PRICE
650444	7/16-20	7/16-20	---
650466	9/16-18	9/16-18	---
650488	3/4-16	3/4-16	---
65041010	7/8-14	7/8-14	---
65041212	1-1/16-12	1-1/16-12	---
65041616	1-5/16-12	1-5/16-12	---
65042020	1-5/8-12	1-5/8-12	---

6504 **1205**

JIC SWIVEL TO MALE - PIPE ADAPTER

PART #	JIC THREAD SIZE 1	MALE PIPE THREAD 2	LIST PRICE
650542	7/16-20	1/8	---
650544	7/16-20	1/4	---
650546	7/16-20	3/8	---
650564	9/16-18	1/4	---
650566	9/16-18	3/8	---
650586	3/4-16	3/8	---
650588	3/4-16	1/2	---
6505128	1-1/16-12	1/2	----
65051212	1-1/16-12	3/4	---
65051612	1-5/16-12	3/4	---
65051616	1-5/16-12	1	---
65052424	1-7/8-12	1-1/2	---

6505 **2018** F6X **1211** 9100R

JIC SWIVEL TO FEMALE PIPE ADAPTER

PART #	JIC THREAD SIZE 1	FEMALE PIPE THREAD 2	LIST PRICE
650642	7/16-20	1/8	---
650644	7/16-20	1/4	---
650664	9/16-18	1/4	---
650666	9/16-18	3/8	---
650668	9/16-18	1/2	---
650686	3/4-16	3/8	---
650688	3/4-16	1/2	---
6506106	7/8-14	3/8	---
6506128	1-1/16-12	1/2	---
65061212	1-1/16-12	3/4	---
65061616	1-5/16-12	1	---
65062020	1-5/8-12	1-1/4	---
65062424	1-7/8-12	1-1/2	---
65063232	2-1/2-12	2	---

6506 **2242** 1215

JIC SWIVEL BRANCH TEE

SAE 070433
MS 51524

PART #	JIC THREAD SIZE 1 & 2	JIC FEMALE THREAD 3	LIST PRICE
660044	7/16-20	7/16-20	---
660066	9/16-18	9/16-18	---
660088	3/4-16	3/4-16	---
660010	7/8-14	7/8-14	---
660012	1-1/16-12	1-1/16-12	---
660016	1-5/16-12	1-5/16-12	---
660020	1-5/8-12	1-5/8-12	---

6600 **203101R** 55X **1227** C5707

JIC SWIVEL RUN TEE

SAE 070432
MS 51523

PART #	JIC THREAD SIZE 1 & 3	JIC FEMALE THREAD 2	LIST PRICE
66024	7/16-20	7/16 -20	---
66025	1/2-20	1/2-20	---
66026	9/16-18	9/16-18	---
66028	3/4-16	3/4-16	---
660212	1-1/16-12	1-1/16-12	---
660216	1-5/16-12	1-5/16-12	---
660224	1-7/8-12	1-7/8-12	---

6602 **203102R** R6X **1248** C5706

JIC TO O-RING RUN TEE

SAE 070428
MS 51530

PART #	JIC THREAD SIZE 1 & 3	O-RING THREAD SIZE 2	LIST PRICE
6804NWO4	7/16-20	7/16-20	---
6804NWO6	9/16-18	9/16-18	---
6804NWO8	3/4-16	3/4-16	---
6804NWO10	7/8-14	7/8-14	---
6804NWO12	1-1/16-12	1-1/16-12	---
6804NWO16	1-5/16-12	1-5/16-12	---

6804 **203005R** R50X **1266R** C5716

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL O-RING ADAPTERS
HYDRAULIC ADAPTERS

JIC TO O-RING ELBOW CONNECTOR

SAE 070220
MS 51527

PART #	JIC THREAD SIZE 1	O-RING THREAD SIZE 2	LIST PRICE
6801NWO4	7/16-20	7/16-20	---
6801NWO46	7/16-20	9/16-18	---
6801NWO48	7/16-20	3/4-16	---
6801NWO6	9/16-18	9/16-18	---
6801NWO64	9/16-18	7/16-20	---
6801NW068	9/16-18	3/4-16	
6801NWO612	9/16-18	1-1/16-12	---
6801NWO8	3/4-16	3/4-16	---
6801NWO86	3/4-16	9/16-18	---
6801NWO810	3/4-16	7/8-14	---
6801NWO812	3/4-16	1-1/16-12	---
6801NWO816	3/4-16	1-5/16-12	---
6801NWO10	7/8-14	7/8-14	---
6801NWO106	7/8-14	9/16-18	---
6801NWO108	7/8-14	3/4-16	---
6801NWO1016	7/8-14	1-5/16-12	---
6801NWO12	1-1/16-12	1-1/16-12	---
6801NWO128	1-1/16-12	3/4-16	---
6801NWO1210	1-1/16-12	7/8-14	---
6801NWO1216	1-1/16-12	1-5/16-12	---
6801NWO16	1-5/16-12	1-5/16-12	---
6801NWO1612	1-5/16-12	1-1/16-12	---
6801NWO1620	1-5/16-12	1-5/8-12	---
6801NWO20	1-5/8-12	1-5/8-12	---
6801NWO2016	1-5/8-12	1-5/16-12	---
6801NWO2024	1-5/8-12	1-7/8-12	---
6801NWO24	1-7/8-12	1-7/8-12	---
6801NWO32	2-1/2-12	2-1/2-12	---

6801 **2062R** C50X **1238L** C5515

JIC TO O-RING - BRANCH TEE

SAE 070429
MS 51529

PART #	JIC THREAD SIZE 1 & 2	O-RING THREAD SIZE 3	LIST
6803NWO4	7/16-20	7/16-20	---
6803NWO6	9/16-18	9/16-18	---
6803NWO8	3/4-16	3/4-16	---
6803NWO10	7/8-14	7/8-14	---
6803NWO12	1-1/16-12	1-1/16-12	---
6803NWO16	1-5/16-12	1-5/16-12	---

6803 **203003X** S50X **1265R** C5715

JIC TO O-RING 45° ELBOW

SAE 070320
MS 51528

PART #	JIC THREAD SIZE 1	O-RING THREAD SIZE 2	LIST PRICE
6802NWO2	5/16-24	5/16-24	---
6802NWO4	7/16-20	7/16-20	---
6802NWO46	7/16-20	9/16-18	---
6802NWO6	9/16-18	9/16-18	---
6802NWO68	9/16-18	3/4-16	---
6802NWO8	3/4-16	3/4-16	---
6802NWO86	3/4-16	9/16-18	---
6802NWO810	3/4-16	7/8-14	---
6802NWO812	3/4-16	1-1/16-12	---
6802NWO10	7/8-14	7/8-14	---
6802NWO108	7/8-14	3/4-16	---
6802NWO1012	7/8-14	1-1/16-12	---
6802NWO12	1-1/16-12	1-1/16-12	---
6802NWO1216	1-1/16-12	1-5/16-12	---
6802NWO16	1-5/16-12	1-5/16-12	---
6802NWO1612	1-5/16-12	1-1/16-12	---
6802NWO1620	1-5/16-12	1-5/8-12	---
6802NWO20	1-5/8-12	1-5/8-12	---
6802NWO2016	1-5/8-12	1-5/16-12	---
6802NWO24	1-7/8-12	1-7/8-12	---
6802NWO32	2-1/2-12	2-1/2-12	---

6802 **2061** V50X **1240R** C5365

O-RING TO - FEMALE PIPE ELBOW

PART #	O-RING THREAD SIZE 1	PIPE THREAD SIZE 2	LIST PRICE
6805NWO42	7/16-20	1/8	---
6805NWO44	7/16-20	1/4	---
6805NWO64	9/16-18	1/4	---
6805NWO66	9/16-18	3/8	---
6805NWO86	3/4-16	3/8	---
6805NWO88	3/4-16	1/2	---
6805NWO108	7/8-14	1/2	---
6805NWO128	1-1/16-12	1/2	---
6805NWO1212	1-1/16-12	3/4	---
6805NWO1616	1-5/16-12	1	---
6805NWO2020	1-5/8-12	1-1/4	---
6805NWO2424	1-7/8-12	1-1/2	---

6805 **206801R** AE0G **1264** C3459

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

O-RING TO MALE PIPE ELBOW

PART #	O-RING THREAD SIZE 1	PIPE THREAD SIZE 2	LIST PRICE
6806NWO44	7/16-20	1/4	---
6806NWO66	9/16-18	3/8	---
6806NWO88	3/4-16	1/2	---
6806NWO1212	1-1/16-12	3/4	---
6806NWO1616	1-5/16-12	1	---

6806 **1263** TF3569

O-RING TO 37° JIC SWIVEL NUT TO O-RING ELBOW

PART #	O-RING THREAD SIZE 1	JIC THREAD SIZE 2	LIST PRICE
6809NWO44	7/16-20	7/16-20	---
6809NWO66	9/16-18	9/16-18	---
6809NWO88	3/4-16	3/4-16	---
6809NWO1212	1-1/16-12	1-1/16-12	---

FEMALE O-RING TO MALE O-RING ELBOW

PART #	O-RING THREAD SIZE 1	O-RING THREAD SIZE 2	LIST PRICE
6815NWO44	7/16-20	7/16-20	---
6815NWO66	9/16-18	9/16-18	---
6815NWO88	3/4-16	3/4-16	---
6815NWO1010	7/8-14	7/8-14	---
6815NWO1212	1-1/16-12	1-1/16-12	---

MALE O-RING SWIVEL ADAPTER

SAE 140157

PART #	O-RING THREAD SIZE 1	FEMALE NPSM SIZE 2	LIST PRICE
6900O42	7/16-20	1/8	---
6900O44	7/16-20	1/4	---
6900O46	7/16-20	3/8	---
6900O48	7/16-20	1/2	---
6900O64	9/16-18	1/4	---
6900O66	9/16-18	3/8	---
6900O68	9/16-18	1/2	---
6900O84	3/4-16	1/4	---
6900O86	3/4-16	3/8	---
6900O88	3/4-16	1/2	---
6900O812	3/4-16	3/4	---
6900O104	7/8-14	1/4	---
6900O106	7/8-14	3/8	----
6900O108	7/8-14	1/2	---
6900O1012	7/8-14	3/4	---
6900O128	1-1/16-12	1/2	---
6900O1212	1-1/16-12	3/4	---
6900O1612	1-5/16-12	3/4	---
6900O1616	1-5/16-12	1	---

6900 **2066R** 1235 **9315**

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

6401 **2068R** 1271 **9515**

STEEL SAE O-RING
HYDRAULIC ADAPTERS

90° O-RING SWIVEL ADAPTER

SAE 140257

PART #	O-RING THREAD SIZE 1	FEMALE NPSM SIZE 2	LIST PRICE
6901NWO42	7/16-20	1/8	---
6901NWO44	7/16-20	1/4	---
6901NWO64	9/16-18	1/4	---
6901NWO66	9/16-18	3/8	---
6901NWO68	9/16-18	1/2	---
6901NWO84	3/4-16	1/4	---
6901NWO86	3/4-16	3/8	---
6901NWO88	3/4-16	1/2	---
6901NWO812	3/4-16	3/4	---
6901NWO104	7/8-14	1/4	---
6901NWO106	7/8-14	3/8	---
6901NWO108	7/8-14	1/2	---
6901NWO126	1-1/16-12	3/8	---
6901NWO128	1-1/16-12	1/2	---
6901NWO1212	1-1/16-12	3/4	---
6901NWO1612	1-5/16-12	3/4	---
6901NWO1616	1-5/16-12	1	---
6901NWO2016	1-5/8-12	1	---
6901NWO2020	1-5/8-12	1-1/4	---
6901NWO2424	1-7/8-12	1-1/2	---
6901NWO3232	2-1/2-12	2	---

45° O-RING SWIVEL ADAPTER

SAE 140357

PART #	O-RING THREAD SIZE 1	FEMALE NPSM SIZE 2	LIST PRICE
6902NWO42	7/16-20	1/8	----
6902NWO44	7/16-20	1/4	---
6902NWO46	7/16-20	3/8	---
6902NWO64	9/16-18	1/4	---
6902NWO66	9/16-18	3/8	---
6902NWO68	9/16-18	1/2	---
6902NWO84	3/4-16	1/4	---
6902NWO86	3/4-16	3/8	---
6902NWO88	3/4-16	1/2	---
6902NWO108	7/8-14	1/2	---
6902NWO128	1-1/16-12	1/2	---
6902NWO1212	1-1/16-12	3/4	---
6902NWO1616	1-5/16-12	1	---

O-RINGS

VITON 75 SAE BOSS O-RING

Fluorocarbon

PART #	O-RING THREAD	LIST PRICE
400122	5/16-24	---
400144	7/16-20	---
400166	9/16-18	---
400188	3/4-16	---
400110	7/8-14	---
400112	1-1/16-12	---
400116	1-5/16-12	---
400120	1-5/8-12	---
400124	1-7/8-12	---

NITRILE 90 SAE BOSS O-RING

PART #	O-RING THREAD	LIST PRICE
400022	5/16-24	---
400044	7/16-20	---
400066	9/16-18	---
400088	3/4-16	---
400010	7/8-14	---
400012	1-1/16-12	---
400014	1-3/16-12	---
400016	1-5/16-12	---
400020	1-5/8-12	---
400024	1-7/8-12	---
400032	2-1/2-12	---

BRAZE TUBE NUT
(SLEEVE REQUIRED)

SAE 520110

PART #	TUBE O.D.	BRAZE TUBE O.D.	LIST PRICE
FSO3184	1/4	.25	---
FSO3186	3/8	.38	---
FSO3188	1/2	.50	---
FSO31810	5/8	.62	---
FSO31812	3/4	.72	---
FSO31816	1	1.00	---
FSO31820	1 1/4	1.25	---

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O-RING FACE SEAL ADAPTERS

HYDRAULIC ADAPTERS

BRAZE TUBE SLEEVE

SAE 520115

PART #	TUBE O.D.	LIST PRICE
FSO3194	1/4	---
FSO3196	3/8	---
FSO3198	1/2	---
FSO31910	5/8	---
FSO31912	3/4	---
FSO31916	1	---
FSO31920	1-1/4	---

FF319 **FF3019**

CAP

SAE 520112

• Two Piece Nut/ Insert

PART #	TUBE O.D.	FACE SEAL THREAD	LIST PRICE
FSO304C4	1/4	9/16-18	---
FSO304C6	3/8	11/16-16	---
FSO304C8	1/2	13/16-16	---
FSO304C10	5/8	1-14	---
FSO304C12	3/4	1-3/16-12	---
FSO304C16	1	1-7/16-12	---
FSO304C20	1-1/4	1-11/16-12	---
FSO304C24	1-1/2	2-12	---

FF304C

BULKHEAD LOCKNUT

SAE 520118

PART #	THREAD SIZE	LIST PRICE
FSO3064	9/16-18	---
FSO3066	11/16-16	---
FSO3068	13/16-16	---
FSO30612	1-3/16-12	---
FSO30616	1-7/16-12	---

FF403

MALE UNION CONNECTOR

SAE 520102

1

2

PART #	TUBE O.D.	FACE SEAL THREAD 1&2	LIST PRICE
FSO240344	1/4	9/16-18	---
FSO240366	3/8	11/16-16	---
FSO240388	1/2	13/16-16	---
FSO24031212	3/4	1-3/16-12	---
FSO24031616	1	1-7/16-12	---

FF2403 **FF1203**

MALE O-RING FACE SEAL ADAPTER

1

2

PART #	FACE SEAL THREAD 1	MALE PIPE SIZE 2	LIST PRICE
FSO240444	9/16-18	1/4-18	---
FSO240446	9/16-18	3/8	---
FSO240464	11/16-16	1/4-18	---
FSO240466	11/16-16	3/8-18	---
FSO240484	13/16-16	1/4-18	---
FSO240486	13/16-16	3/8	---
FSO240488	13/16-16	1/2-14	---
FSO2404108	1-14	1/2	---
FSO24041212	1-3/16-12	3/4-14	---
FSO24041616	1-7/16-12	1-11-1/2	---
FSO24042020	1-11/16-12	1-1/4	---
FSO24042424	2-12	1-1/2	---

FF2404 **4205** FLO

FEMALE ORFS TO MALE ORFS REDUCER

1

2

PART #	FEMALE FACE SEAL SIZE 1	MALE FACE SEAL THREAD 2	LIST PRICE
FSO240664	11/16-16	9/16-18	---
FSO240684	13/16-16	9/16-18	---
FSO2406106	1-14	11/16-16	---
FSO2406108	1-14	13/16-16	---
FSO2406126	1-3/16-12	11/16-16	---

FF2406 **TRLON**

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

O-RING FACE SEAL ADAPTERS
HYDRAULIC ADAPTERS

PLUG

SAE 520109

PART #	TUBE O.D.	FACE SEAL THREAD	LIST PRICE
FSO24084	1/4	9/16-18	---
FSO24086	3/8	11/16-16	---
FSO24088	1/2	13/16-16	---
FSO240810	5/8	1-14	---
FSO240812	3/4	1-3/8-12	---
FSO240816	1	1-7/16-12	---
FSO240820	1-1/4	1-11/16-12	---
FSO240824	1-1/2	2-12	---

FF2408 **FF1254** 4229 **PNLO**

ORFS UNION ELBOW 90°

PART #	FACE SEAL THREAD 1	FACE SEAL THREAD 2	LIST PRICE
FS250044	9/16-18	9/16-18	---
FS250066	11/16-16	11/16-16	---
FS25001010	1-14	1-14	---
FS25001212	1-3/16-12	1-3/16-12	---
FS25001616	1-7/16-12	1-7/16-12	---

FF2500 **4505** ELO

ORFS TO MALE ELBOW

SAE 520202

PART #	FACE SEAL THREAD 1	MALE PIPE THREAD 2	LIST PRICE
FS250144	9/16-18	1/4	---
FS250164	11/16-16	1/4	---
FS250166	11/16-16	3/8	---
FS250186	13/16-16	3/8	---
FS250188	13/16-16	1/2	---
FS2501812	13/16-16	3/4	---
FS2501108	1-14	1/2	---
FS25011012	1-14	3/4	---
FS2501128	1-3/8-12	1/2	---
FS25011212	1-3/8-12	3/4	---
FS25011216	1-3/8-12	1	---
FS25011616	1-7/16-12	1	---
FS25012020	1-11/16-12	1-1/4	---
FS25012424	2-12	1-1/2	---

FF2501 **FF1208** 4405 **CLO**

ORFS TO PIPE ELBOW 45°

PART #	FACE SEAL THREAD 1	MALE PIPE THREAD 2	LIST PRICE
FS250344	9/16-18	1/4	---
FS250366	11/16-16	3/8	---
FS250388	13/16-16	1/2	---
FS25031212	1-3/16-12	3/4	---
FS25031616	1-7/16-12	1	---

FF2503 **4355** VLO

ORFS UNION TEE

PART #	FACE SEAL THREAD 1+2+3	LIST PRICE
FS260344	9/16-18	---
FS260366	11/16-16	---
FS260388	13/16-16	---
FS26031212	1-3/16-12	---

MALE FLAT FACE TO FEMALE 37 ° SWIVEL

PART #	FACE SEAL THREAD 1	JIC THREAD 2	LIST PRICE
FS640244	9/16-18	7/16-20	---
FS640266	11/16-16	9/16-18	---
FS640288	13/16-16	3/4-16	---
FS64021010	1-14	7/8-14	---
FS64021212	1-3/16-12	1-1/16-12	---

FF6402 **FF1294**

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

O-RING FACE SEAL ADAPTERS

HYDRAULIC ADAPTERS

MALE ORFS TO ORB CONNECTOR

SAE 520120

PART #	FACE SEAL THREAD 1	O-RING THREAD 2	LIST PRICE
FS6400O44	9/16-18	7/16-20	---
FS6400O46	9/16-18	9/16-18	---
FS6400O64	11/16-16	7/16-20	---
FS6400O66	11/16-16	9/16-18	---
FS6400O68	11/16-16	3/4-16	---
FS6400O86	13/16-16	9/16-18	---
FS6400O88	13/16-16	3/4-16	---
FS6400O810	13/16-16	7/8-14	---
FS6400O108	1-14	3/4-16	---
FS6400O1010	1-14	7/8-14	---
FS6400O1012	1-14	1-1/16-12	---
FS6400O128	1-3/16-12	3/4-16	---
FS6400O1210	1-3/16-12	7/8-14	---
FS6400O1212	1-3/16-12	1-1/16-12	---
FS6400O1216	1-3/16-12	1-5/16-12	---
FS6400O1612	1-7/16-12	1-1/16-12	---
FS6400O1616	1-7/16-12	1-5/16-12	---
FS6400O1620	1-7/16-12	1-5/8-12	---
FS6400O2020	1-11/16-12	1-5/8-12	---
FS6400O2024	1-11/16-12	1-7/8-12	---
FS6400O2424	2-12	1-7/8-12	---

4315 **FF6400** FF1231

SWIVEL NUT ELBOW

PART #	FACE SEAL THREAD 1	FACE SEAL THREAD 2	LIST PRICE
FS650044	9/16-18	9/16-18	---
FS650066	11/16-16	11/16-16	---
FS650088	13/16-16	13/16-16	---
FS65001212	1-3/16-12	1-3/16-12	---

FF6500 **FF1236**

MALE JIC 37° FLARE TO FEMALE FLAT FACE SWIVEL

PART #	JIC THREAD SIZE 1	FACE SEAL THREAD 2	LIST PRICE
FS650444	7/16-20	9/16-18	---
FS650466	9/16-18	11/16-16	---
FS650488	3/4-16	13/16-16	---
FS65041010	7/8-14	1-14	---
FS65041616	1-5/16-12	1-7/16-12	---

FF6504 **FF1296**

O-RING ELBOW CONNECTOR

PART #	FACE SEAL THREAD 1	O-RING THREAD 2	LIST PRICE
FS680144	9/16-18	7/16-20	---
FS680146	9/16-18	9/16-18	---
FS680164	11/16-16	7/16-20	---
FS680166	11/16-16	9/16-18	---
FS680168	11/16-16	3/4-16	---
FS680186	13/16-16	9/16-18	---
FS680188	13/16-16	3/4-16	---
FS6801810	13/16-16	7/8-14	---
FS6801108	1-14	3/4-16	---
FS68011012	1-14	1-1/16-12	---
FS68011210	1-3/16-12	7/8-14	---
FS68011212	1-3/16-12	1-1/16-12	---
FS68011216	1-3/16-12	1-5/16-12	---
FS68011616	1-7/16-12	1-5/16-12	---
FS68011620	1-7/16-12	1-5/8-12	---
FS68012016	1-11/16-12	1-5/16-12	---
FS68012020	1-11/16-12	1-5/8-12	---
FS68012424	2-12	1-7/8-12	---

FF6801 **FF1238** 4515

ORFS TO O-RING ELBOW 45°

PART #	FACE SEAL THREAD 1	O-RING SIZE 2	LIST PRICE
FS680244	9/16-18	7/16-20	---
FS680266	11/16-16	9/16-18	---
FS680288	13/16-16	3/4-16	---
FS68021010	1-14	7/8-14	---
FS68021212	1-3/16-12	1-1/16-12	---
FS68021616	1-7/16-12	1-5/16-12	---
FS68022020	1-11/16-12	1-5/8-12	---

FF6802 **4365** V5OLO

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL BSPT ADAPTERS
HYDRAULIC ADAPTERS

STRAIGHT THREAD SWIVEL NUT ELBOW

PART #	O-RING THREAD 1	FACE SEAL THREAD 2	LIST PRICE
FS680944	7/16-20	9/16-18	---
FS680966	9/16-18	11/16-16	---
FS680988	3/4-16	13/16-16	---
FS68091212	1-1/16-12	1-3/16-12	---

FF6809 **FF1239** 4535 **AOELC**

STEEL BSPT ADAPTERS

JIC MALE CONNECTOR BSPT

PART #	JIC THREAD SIZE 1	MALE BSPT 2	LIST PRICE
700042	7/16-20	1/8-28	---
700044	7/16-20	1/4-19	---
700064	9/16-18	1/4-19	---
700066	9/16-18	3/8-19	---
700068	9/16-18	1/2-14	---
700086	3/4-16	3/8-19	---
700088	3/4-16	1/2-14	---
7000812	3/4-16	3/4-14	---
7000108	7/8-14	1/2-14	---
70001012	7/8-14	3/4-14	---
7000128	1-1/16-12	1/2-14	---
70001212	1-1/16-12	3/4-14	---
70001616	1-5/16-12	1-11	---

3404 **3O5**

JIC MALE ELBOW BSPT

PART #	JIC THREAD SIZE 1	MALE BSPT 2	LIST PRICE
720042	7/16-20	1/8-28	---
720044	7/16-20	1/4-19	---
720064	9/16-18	1/4-19	---
720066	9/16-18	3/8-19	---
720068	9/16-18	1/2-14	---
720086	3/4-16	3/8-19	---
720088	3/4-16	1/2-14	---
72001212	1-1/16-12	3/4-14	---

3501 **315**

BSPT HEX NIPPLE

PART #	MALE BSPT 1	MALE BSPT 2	LIST PRICE
752022	1/8-28	1/8-28	---
752044	1/4-19	1/4-19	---
752066	3/8-19	3/8-19	---
752088	1/2-14	1/2-14	---
75201010	5/8-14	5/8-14	---
75201212	3/4-14	3/4-14	---

3520 **MBT**

BSPT PLUG

PART #	BSPT	LIST PRICE
95082	1/8-28	---
95084	1/4-19	---
95086	3/8-19	---
95088	1/2-14	---
950812	3/4-14	---
950816	1-11	---

100B-Y **KA-RM** MHL **296**

STEEL BSPP ADAPTERS

BSPP HEX NIPPLE

PART #	MALE BSPP 1	MALE BSPP 2	LIST PRICE
742022	1/8-28	1/8-28	---
742042	1/4-19	1/8-28	---
742064	3/8-19	1/4-19	---
742066	3/8-19	3/8-19	---
742086	1/2-14	3/8-19	---
742088	1/2-14	1/2-14	---
7420108	5/8-14	1/2-14	---
7420128	3/4-14	1/2-14	---
74201212	3/4-14	3/4-14	---
74201612	1-11	3/4-14	---
74201616	1-11	1-11	---

3420 **MB** 9022

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL BSPP ADAPTERS

HYDRAULIC ADAPTERS

BSPP COUPLING

PART #	BSPP	LIST PRICE
74252	1/8-28	---
74254	1/4-19	---
74258	1/2-14	---
742510	5/8-14	---
742512	3/4-14	---
742516	1-11	---

3425 **FB**

JIC TO FEMALE BSPP STRAIGHT SWIVEL

PART #	JIC THREAD SIZE 1	FEMALE BSPP SWIVEL 2	LIST PRICE
72404	7/16-20	1/4-19	---
72406	9/16-18	3/8-19	---
72408	3/4-16	1/2-14	---
724010	7/8-14	5/8-14	---
724012	1-1/16-12	3/4-14	---
724016	1-5/16-12	1-11	---

3240 **MJFBS**

JIC TO BSPP MALE ELBOW

PART #	JIC THREAD SIZE 1	MALE BSPP 2	LIST PRICE
7202NWO42	7/16-20	1/8-28	---
7202NWO44	7/16-20	1/4-19	---
7202NWO64	9/16-18	1/4-19	---
7202NWO66	9/16-18	3/8-19	---
7202NWO68	9/16-18	1/2-14	---
7202NWO86	3/4-16	3/8-19	---
7202NWO88	3/4-16	1/2-14	---
7202NWO812	3/4-16	3/4-14	---
7202NWO108	7/8-14	1/2-14	---
7202NWO1212	1-1/16-12	3/4-14	---
7202NWO1216	1-1/16-12	1-11	---
7202NWO1616	1-5/16-12	1-11	---

3801 **315**

JIC TO BSPP 45° ELBOW

PART #	JIC THREAD SIZE 1	MALE BSPP 2	LIST PRICE
78024	7/16-20	1/4-19	---
78026	9/16-18	3/8-19	---
78028	3/4-16	1/2-14	---
780212	1-1/16-12	3/4-14	---
780216	1-5/16-12	1-11	---

3802 **35J**

BSPP TO MALE PIPE NIPPLE

PART #	MALE BSPP SIZE 1	MALE PIPE THREAD SIZE 2	LIST PRICE
78252	1/8-28	1/8	---
78254	1/4-19	1/4	---
78256	3/8-19	3/8	---
78258	1/2-14	1/2	---
782512	3/4-14	3/4	---
782516	1-11	1	---

MBMP **3825**

JIC TO BSPP MALE CONNECTOR

PART #	JIC THREAD SIZE 1	MALE BSPP 2	LIST PRICE
700242	7/16-20	1/8-28	---
700244	7/16-20	1/4-19	---
700246	7/16-20	3/8-19	---
700248	7/16-20	1/2-14	---
700264	9/16-18	1/4-19	---
700266	9/16-18	3/8-19	---
700268	9/16-18	1/2-14	---
700286	3/4-16	3/8-19	---
700288	3/4-16	1/2-14	---
7002812	3/4-16	3/4-14	---
7002108	7/8-14	1/2-14	---
70021212	1-1/16-12	3/4-14	---
70021216	1-1/16-12	1-11	---
70021616	1-5/16-12	1-11	---

30J **3800**

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

JIC TO BSPP STRAIGHT SWIVEL

PART #	JIC THREAD SIZE 1	MALE BSPP 2	LIST PRICE
702242	7/16-20	1/8-28	---
702244	7/16-20	1/4-19	---
702266	9/16-18	3/8-19	---
702288	3/4-16	1/2-14	---
7022108	7/8-14	1/2-14	---
70221212	1-1/16-12	3/4-14	---
70221616	1-5/16-12	1-11	---

3402 **3055**

HEX HEAD PLUG BSPP

PART #	MALE BSPP	LIST PRICE
9522P2	1/8-28	---
9522P4	1/4-19	---
9522P6	3/8-19	---
9522P8	1/2-14	---
9522P12	3/4-14	---
9522P16	1-11	---

3408

HOLLOW HEX PLUG BSPP

PART #	MALE BSPP	LIST PRICE
9522H2	1/8-28	---
9522H4	1/4-19	---
9522H6	3/8-19	---
9522H8	1/2-14	---
9522H12	3/4-14	---
9522H16	1-11	---

3408 HHP

FEMALE ADAPTER BSPP

PART #	FEMALE PIPE 1	MALE BSPP 2	LIST PRICE
704222	1/8	1/8-28	---
704242	1/4	1/8-28	---
704244	1/4	1/4-19	---
704266	3/8	3/8-19	---
704288	1/2	1/2-14	---
70421212	3/4	3/4-14	---
70421616	1	1-11	---

3455 **MMFP**

STEEL METRIC ADAPTERS

MALE CONNECTOR

PART #	JIC THREAD SIZE 1	METRIC THREAD 2	LIST PRICE
7005410	7/16-20	10x1.0	---
7005412	7/16-20	12x1.5	---
7005414	7/16-20	14x1.5	---
7005418	7/16-20	18x1.5	---
7005512	1/2-20	12x1.5	---
7005514	1/2-20	14x1.5	---
7005614	9/16-18	14x1.5	---
7005616	9/16-18	16x1.5	---
7005618	9/16-18	18x1.5	---
7005816	3/4-16	16x1.5	---
7005818	3/4-16	18x1.5	---
7005822	3/4-16	22x1.5	---
70051018	7/8-14	18x1.5	---
70051020	7/8-14	20x1.5	---
70051022	7/8-14	22x1.5	---
70051222	1-1/16-12	22x1.5	---

Port-seal crush washer and O-ring included 7400 **30J (R)** 7011

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL METRIC ADAPTERS
HYDRAULIC ADAPTERS

MALE ELBOW

PART #	JIC THREAD SIZE 1	METRIC THREAD 2	LIST PRICE
7205NWO410	7/16-20	10x1.0	---
7205NWO412	7/16-20	12x1.5	---
7205NWO414	7/16-20	14x1.5	---
7205NWO512	1/2-20	12x1.5	---
7205NWO614	9/16-18	14x1.5	---
7205NWO616	9/16-18	16x1.5	---
7205NWO816	3/4-16	16x1.5	---
7205NWO818	3/4-16	18x1.5	---
7205NWO822	3/4-16	22x1.5	---
7205NWO1018	7/8-14	18x1.5	---

Port-seal crush washer and O-ring included

7801 **315 (R)**

PART #	JIC THREAD SIZE 1	METRIC THREAD 2	LIST PRICE
7025410	7/16-20	10x1.0	---
7025412	7/16-20	12x1.5	---
7025512	1/2-20	12x1.5	---
7025614	9/16-18	14x1.5	---
7025616	9/16-18	16x1.5	---
7025816	3/4-16	16x1.5	---
70251022	7/8-14	22x1.5	---
70251227	1-1/16-12	27x2.0	---
70251633	1-5/16-12	33x2.0	---

7402 **30JS (R)**

HEX HEAD PLUG METRIC PARALLEL

PART #	METRIC THREAD	LIST PRICE
8555P10	10x1.0	---
8555P12	12x1.5	---
8555P14	14x1.5	---
8555P16	16x1.5	---
8555P18	18x1.5	---
8555P20	20x1.5	---
8555P22	22x1.5	---
8555P26	26x1.5	---
8555P30	30x1.5	---

7408

HOLLOW HEX HEAD PLUG

PART #	METRIC THREAD	LIST PRICE
8555H10	10x1.0	---
8555H12	12x1.5	---
8555H14	14x1.5	---
8555H16	16x1.5	---
8555H18	18x1.5	---
8555H20	20x1.5	---
8555H22	22x1.5	---
8555H26	26x1.5	---
8555H30	30x1.5	---

7408 HHP

FEMALE ADAPTER

PART #	FEMALE PIPE THREAD 1	METRIC THREAD 2	LIST PRICE
7045210	1/8	10x1.0	---
7045412	1/4	12x1.5	---
7045414	1/4	14x1.5	---
7045612	3/8	12x1.5	---
7045616	3/8	16x1.5	---
7045618	3/8	18x1.5	---
7045816	1/2	16x1.5	---
7045818	1/2	18x1.5	---
7045822	1/2	22x1.5	---
70451227	3/4	27x2.0	---
70451633	1	33x2.0	---

MMFP (R)

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

ISO A AND B INTERCHANGE

HYDRAULIC ADAPTERS

THREAD TO CONNECT, DRYBREAK NO-SPILL QUICK CONNECT

- Brass Body
- Steel Wing Nut
- Buna-Seal (-40° to +250°F)

Aeroquip 5100
Parker 6100
Snaptite B78

- Bonded Face Seal
- External ORing Alleviates Full Connection

PART #	BODY SIZE	FEMALE NPT	MAX PSI	LIST PRICE
61150	3/4	1/2	3000	---
61152	3/4	3/4	3000	---
61153	1	1	3000	---
61154	1-1/4	1-1/4	2750	---

PART #	BODY SIZE	FEMALE NPT	MAX PSI	LIST PRICE
61050	3/4	1/2	3000	---
61052	3/4	3/4	3000	---
61053	1	1	3000	---
61054	1-1/4	1-1/4	2750	---

FEATURES - **ISO A and ISO B**

- Poppet valves to prevent uncoupled leakage
- Critical parts are induction hardened for durability
- Dependable ball-locking mechanism holds the maling halves together
- Socket and plug are precision machined from solid barstock
- Standard nitrile seals temp range -40°F to +250°F

ISO 7241-1 ISO-A Interchange (Connected)				
Body Size	*Steel Coupler/ Plug*			
	Maximum Working		*Burst*	
	PSI	Bar	PSI	Bar
1/4"	5,000	345	18,270	1,200
3/8"	4,000	275	18,270	1,200
1/2"	4,000	275	16,500	1,100
3/4"	4,000	275	14,800	1,000
1"	4,000	275	12,400	850

INTERCHANGE DATA:

- Parker 6600, Aeroquip/ Eaton FD56, Dixon 'K' Series.
- Hansen HA 15000, Safeway S56

ISO-A FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT	LIST PRICE
ANV14F	1/4"	1/4"	---
ANV38F	3/8"	3/8"	---
ANV12F	1/2"	1/2"	---
ANV34F	3/4"	3/4"	---
ANV1F	1"	1"	---

ISO-A FEMALE PIPE PLUG

PART #	BODY SIZE	NPT	LIST PRICE
ANV14M	1/4"	1/4"	---
ANV38M	3/8"	3/8"	---
ANV12M	1/2"	1/2"	---
ANV34M	3/4"	3/4"	---
ANV1M	1"	1"	---

ISO 7241-1 Series B ISO-B Interchange (Connected)								
Body Size	*Steel Coupler/ Plug*				*Brass Coupler/ Plug*			
	Max. Working		*Burst*		*Max. Working*		*Burst*	
	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar
1/4"	5,000	345	22,500	1,550	3,000	200	15,000	1,000
3/8"	4,000	275	16,500	1,150	2,500	175	12,000	800
1/2"	4,000	275	16,000	1,100	2,500	175	11,500	750
3/4"	4,000	275	16,500	1,150	2,000	150	12,000	800
1"	4,000	275	16,000	1,100	1,500	100	8,500	800

INTERCHANGE DATA:

- Parker 60 Series, Snap-tite 72 series, Dixon 'H' series
- Hansen HK - series, Aeroquip/ Eaton FDH5

B=BRASS

BRASS - HNV SERIES PLUG

BRASS - HNV SERIES COUPLER

ISO-B
FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT	LIST PRICE
HNV14F	1/4"	1/4"	---
HNV14FB	1/4"	1/4"	---
HNV38F	3/8"	3/8"	---
HNV38FB	3/8"	3/8"	---
HNV12F	1/2"	1/2"	---
HNV12FB	1/2"	1/2"	---
HNV34F	3/4"	3/4"	---
HNV34FB	3/4"	3/4"	---

ISO-B FEMALE PIPE PLUG

PART #	BODY SIZE	NPT	LIST PRICE
HNV14M	1/4"	1/4"	---
HNV14MB	1/4"	1/4"	---
HNV38M	3/8"	3/8"	---
HNV38MB	3/8"	3/8"	---
HNV12M	1/2"	1/2"	---
HNV12MB	1/2"	1/2"	---
HNV34M	3/4"	3/4"	---
HNV34MB	3/4"	3/4"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FLUSH FACE ISO
HYDRAULIC ADAPTERS

FEATURES
• Steel construction, zinc nickel plated finish. Hardened Nipples and sleeves and solid barstock construction for maximum resistance to damage from hydraulic and mechanical shock.
• This Anti-Blowout Nitrile/ PTFE bonded seal is designed to prevent blow out or damage during servere service conditions.
• Durable ball-locking mechanism assures reliable connection everytime.
• Temp Range -65° to +250°

ISO 16028

FLUSH FACE				
	Steel Coupler/ Plug Coupled			
Body Size	*Maximum Working*		*Burst*	
	PSI	Bar	PSI	Bar
1/4"	5,000	345	18,270	1,200
3/8"	4,000	275	18,270	1,200
1/2"	4,000	275	16,500	1,100
5/8"	4,000	275	14,800	1,000
3/4"	4,000	275	12,400	850
1"	3,000	200	12,600	850

FF Series
HTMC
74C

FF Series
HTMN
74N

FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT	LIST PRICE
FF14F	1/4"	1/4"	---
FF38F	3/8"	3/8"	---
FF12F	1/2"	1/2"	---
FF3812F	3/8"	1/2"	---
FF1234F	1/2"	3/4"	---
FF3416F	3/4"	1"	---
FF34F	3/4"	3/4"	---
FF-1-F	1"	1"	---

FEMALE PIPE PLUG

PART #	BODY SIZE	NPT	LIST PRICE
FF14M	1/4"	1/4"	---
FF38M	3/8"	3/8"	---
FF12M	1/2"	1/2"	---
FF3812M	3/8"	1/2"	---
FF1234M	1/2"	3/4"	---
FF3416M	3/4"	1"	---
FF34M	3/4"	3/4"	---
FF1M	1"	1"	---

FLAT FACE THREAD LOCK - VEP QUICK COUPLING

SPECIFICATIONS

BODY SIZE (IN)	1/2(12)	3/4(34)	1(1)	1-1/2(24)
Rated Pressure (PSI)	7000	7000	6000	5000
Rated Flow (GPM)	12	50	88	152
Temperature Range	-20°C +120°C			

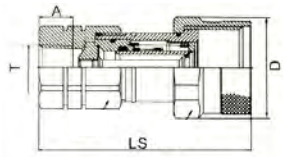
Standard seal material is **NBR**

Test Fluid-Oil = 200 SUS

APPLICATIONS
• Widely used in public equipment
• Portable construction equipment.
• Hydraulic tools
• Vehicles

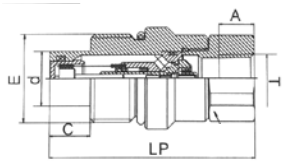
FEATURES
• New valve design provides better resistance from high flow and the pressure of impulse, thus providing advanced performance.
• Special nipple design for connecting under pressure, allows connection and disconnection with high residual pressures.
• The LSQ-VEP series employs a threaded sleeve locking mechanism, mates with matching male threads on the coupler.
• New plating treatment provides advanced anti-rust performance.
• LSQ-VEP series couplings employ flush valving when connecting or disconnecting, therefore only a small amount of fluid can be lost during disconnecting or air inclusion during reconnection.
• The Anti-Blowout bonded seal is designed to prevent blow-out or damage during severe service conditions.
• Machined form solid steel barstock for durability. Compatible with most other VEP series.

• **O-Ring SAE Boss Thread available with import lead time (same list price)**



FEMALE COUPLER

PART #	LS	D	A	NPT	LIST PRICE
LSQVEP12SF	4.09	1.13	0.67	1/2	---
LSQVEP34SF	4.49	2.13	0.79	3/4	---
LSQVEP1SF	5.28	2.33	0.83	1	---
LSQVEP20SF	5.71	2.72	0.83	1-1/4	---



FEMALE PLUG

PART #	LS	D	A	NPT	LIST PRICE
LSQVEP12PF	4.09	1.13	0.67	1/2	---
LSQVEP34PF	4.49	2.13	0.79	3/4	---
LSQVEP1PF	5.28	2.33	0.83	1	---
LSQVEP20PF	5.71	2.72	0.83	1-1/4	---

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

QUICK DISCONNECT - HYDRAULIC JACK

HYDRAULIC ADAPTERS

AG - Series Agricultural Interchange (Connected)				
Nominal Size	*Steel Coupler/ Plug*			
	Maximum Working		*Burst*	
	PSI	Bar	PSI	Bar
1/4"	4,000	275	21,000	1,500
3/8"	4,000	275	23,100	1,600
1/2"	4,000	275	16,500	1,100
3/4"	3,000	200	10,300	700
1"	3,000	200	13,000	900

Snap-Tite 60 Series

FEMALE PIPE COUPLER

Part #	Body Size	NPT	List Price
NV14F	1/4"	1/4"	---
NV38F	3/8"	3/8"	---
NV12F	1/2"	1/2"	---
NV34F	3/4"	3/4"	---
NV1F	1"	1"	---

FEMALE PIPE PLUG

Part #	Body Size	NPT	List Price
NV14M	1/4"	1/4"	---
NV38M	3/8"	3/8"	---
NV12M	1/2"	1/2"	---
NV34M	3/4"	3/4"	---
NV1M	1"	1"	---

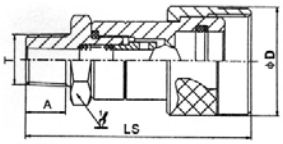
FEATURES

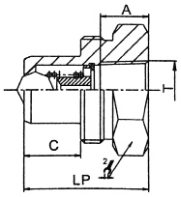
- Heavy duty heat treated poppet: valves are standard with rugged, specially-designed seals made of nitrite for leak-free performance in the toughest application.
- High-strength steel valve guides designed for high flow rates and made extra tough for agricultural service.
- Dependable hardened chrome alloy steel locking balls. Heat treated plugs and sleeves.
- Standard seals temp range -40°F to +250°F

THREAD LOCK HYDRAULIC JACK COUPLING

APPLICATIONS

- Thread lock couplings with their threaded union locking system and precision ball-type check valves are designed for extreme high pressure applications such as portable hydraulic jacks.
- **Ball Type.**





SPECIFICATIONS

Body Size	1/4(14)	3/8(38)
Rated Pressure	10.000	
Rated Flow (GPM)	3	6
Temperature Range	-20°C +120°C	
Standard seal material is **NBR**		

MALE COUPLER

PART #	LS	D	HEX	A	NPT	LIST PRICE
KZEB14SM	2.40	1.14	0.87	0.55	1/4	---

FEMALE COUPLER

PART #	LS	D	HEX	A	NPT	LIST
KZEB14PF	1.30	0.44	0.75	0.51	1/4	---
KZEB38PF	1.38	0.63	1.26	0.55	3/8	---

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

MM-FC SERIES FLOW CONTROL VALVES

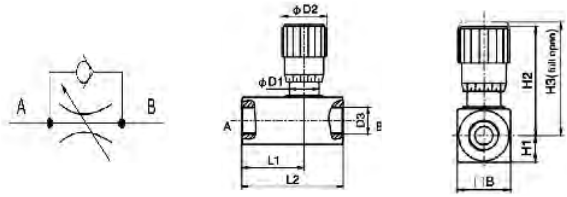
FEATURES:
- Micrometer adjustment knob for accurate valve setting.
- Rugged construction.

TECHNICAL DATA:
- Materials

Body:	Carbon steel w/ black oxide plating
Handle:	Zinc Alloy
Set Screw:	Steel
Packing:	Buna O-Ring/ PTFE stem packing
Maximum Pressure:	5000PSI
Temperature Ratings:	-4°F to 176°F (-20°C to 80°C)
Flow Rate: 0-42 GPM	

INLET

<< FREE FLOW



Part#	B	D1	D2	D3	H1	H2	H3	L1	L2	WEIGHT (lbs)	List Price
MMFC4NPT	1.10	0.76	1.18	1/4 NPT	0.55	2.41	2.67	1.54	2.52	0.90	---
MMFC6NPT	1.10	0.76	1.18	3/8 NPT	0.55	2.41	2.67	1.69	2.75	0.90	---
MMFC8NPT	1.50	0.95	1.46	1/2 NPT	0.75	3.07	3.41	2.05	3.27	2.00	---
MMFC12NPT	1.50	0.95	1.46	3/4 NPT	0.75	3.08	3.41	2.19	3.50	2.00	---
MMFC16NPT	1.89	1.38	1.89	1 NPT	0.94	4.03	4.50	2.79	4.60	4.20	---
MMFC20NPT	2.38	1.96	2.28	1-1/4 NPT	1.18	5.25	5.88	3.39	6.07	9.55	---

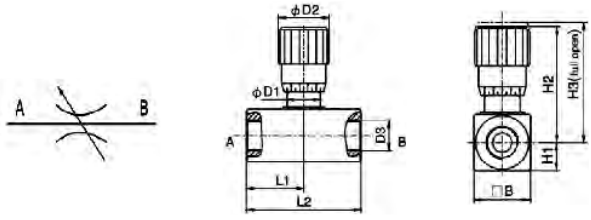
MM-NV SERIES NEEDLE VALVES

FEATURES:
- Micrometer adjustment knob for accurate valve setting.
- Rugged construction.

TECHNICAL DATA:
- Materials

Body:	Carbon steel w/ black oxide plating
Handle:	Zinc Alloy
Set Screw:	Steel
Packing:	Buna O-Ring/ PTFE stem packing
Maximum Pressure:	5000PSI
Temperature Ratings:	-4°F to 176°F (-20°C to 80°C)
Flow Rate: 0-42 GPM	

▪ FULL SHUT-OFF



Part#	B	D1	D2	D3	H1	H2	H3	L1	L2	WEIGHT (lbs)	List Price
MMNV4NPT	1.10	0.76	1.18	1/4 NPT	0.55	2.41	2.67	1.07	2.13	0.90	---
MMNV6NPT	1.10	0.76	1.18	3/8 NPT	0.55	2.41	2.67	1.07	2.13	0.90	---
MMNV8NPT	1.50	0.95	1.46	1/2 NPT	0.75	3.07	3.41	1.34	2.38	2.00	---
MMNV12NPT	1.50	0.95	1.46	3/4 NPT	0.75	3.08	3.41	1.54	3.09	2.00	---
MMNV16NPT	1.89	1.38	1.89	1 NPT	0.94	4.03	4.50	1.81	3.62	4.20	---

WARNING: This product can expose you to chemicals, including cobalt, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HYDRAULIC FLOW CONTROL/ BREATHERS

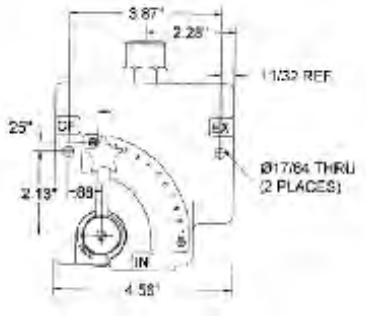
HYDRAULIC ADAPTERS

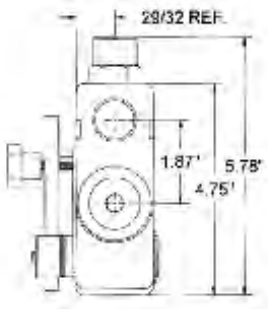
PRESSURE COMPENSATING VARIABLE FLOW CONTROL

FEATURES:

MFC-51 model is a full range pressure compensating variable flow control. It is designed so that the orifice area varies as the lever is rotated. The outlet flw is smooth and constant regardless of the pressure on the control flow or excess flow ports. An adjustable ball spring relief allows for pressure compensated flow up to the pressure setting on the relief. Relief valves are preset at 1500 PSI and field adjustable from 750 to 3000 PSI.

- Materials: Cast Iron Body, Heat Treated Compensator Spool, Stainless Steel Rotary Spool, Buna N "O" Rings (Standard)
- **ALL ARE STANDARD FLOW CONTROL**
- **ALL HAVE ADJUSTABLE BALL SPRING RELIEF**
- **SAE PORT AVAILABLE. MINIMUM ORDER REQUIRED**





Part#	Size	Flow	List Price
MFC38N	3/8" - NPT	0-8 gpm	---
MFC12N	1/2" - NPT	0-16 gpm	---
MFC34N	3/4" - NPT	0-30 gpm	---

SCREW-ON TYPE AIR BREATHERS

• Chrome Plated Steel • 1/4 To 1 Inch NPT • 40 Micron Breather

PART NUMBER	FLOW CFM	NPT	LIST PRICE
MB4004	10	1/4	---
MB4006	10	3/8	---
MB4008	10	1/2	---
MB4012	25	3/4	---
MB4016	25	1	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL FLANGE ADAPTERS

CONFORMANCE

- SAE J518

MATERIALS

- Steel per SAE J518 with either black phosphate finish or plated zinc finish or iridite dip. Stainless Steel available upon request.

WORKING PRESSURES

The following table lists the recommended working pressures for steel Four-bolt Solid and Split Flange Fititngs and Hose Ends manufactured in accordance with SAE standards J518 and J517. SAE recommends sufficient testing to be conducted to assure that performance levels will be safe and satisfactory, especially if installed in systems operating at elevated pressures or in severe conditions. When using Flanged Fittings that have a threaded connection on one end, use the lower pressure rating of the two.

Caution: Although many Four-bolt Flanged Fittings have sufficient structural integrity to support the weight of many components, we recommend consulting with our technical support department for guidance in selection of parts for this purpose.

SAE J518 FOUR-BOLT CODE 61
FLANGE PRESSURE RATINGS

Dash Size	Flange Head OD Inches	4 TO 1 Minimum Burst PSI
-8	1-3/16 - 1.188	5000
-12	1-1/2 - 1.500	5000
-16	1-3/4 - 1.750	5000
-20	2 - 2.000	4000
-24	2-3/8 - 2.375	3000
-32	2-13/16 - 2.812	3000
-40	3-5/16 - 3.312	2500
-48	4 - 4.000	2000
-56	4-1/2 - 4.500	500
-64	5 - 5.000	500
-80	6 - 6.000	500

SAE J518 FOUR-BOLT CODE 62
FLANGE PRESSURE RATINGS

Dash Size	Flange Head OD Inches	4 TO 1 Minimum Burst PSI
-8	1-1/4 - 1.250	6000
-12	1-5/8 - 1.625	6000
-16	1-7/8 - 1.875	6000
-20	2-1/8 - 2.125	6000
-24	2-1/2 - 2.500	6000
-32	3-1/8 - 3.125	6000

STEEL FLANGE ADAPTERS
ASSEMBLY INSTRUCTIONS

RECOMMENDED SOLID FOUR-BOLT

Step 1. Inspect port area to be smooth and free of nicks, burrs, scratches, or contaminants.
Step2. Lubricate the o-ring and place in flange head groove.
Step 3. Lubricate screw threads, slip lock washers onto screws, and insert screws into flange
Step 4. Position flange on port and finger tighten all screws.
Step 5. Torque the screws in a figure eight sequence, incrementally until the appropriate torque value in the following table is achieved.

J518 CODE 61 AND CODE 62
FLANGE MINIMUM TORQUE VALUES

Dash Size	Port Size	Code 61 Foot/Lbs.	Code 62 Foot/Lbs.
-8	1/2”	15-19	15-19
-12	3/4”	20-29	25-33
-16	1”	27-35	41-50
-20	1-1/4”	35-46	62-75
-24	1-1/2”	46-58	116-133
-32	2”	53-67	200-217
-40	2-1/2”	79	NA
-48	3”	137	NA
-56	3-1/2”	116	NA
-64	4”	116	NA
-80	5”	116	NA

RECOMMENDED SPLIT FOUR-BOLT

Step1. Follow steps 1 through 3 above, then proceed to the following steps.
Step 2. Position both flanges on port and turn one screw in each flange about three turns.
Step 3. Rotate each flange away from the port for sufficient clearance to position hose or fitting flange head on port.
Step 4. Close each flange until it properly captures flange head. Insert remaining screws and finger tighten.
Step 5. Torque the screws in a figure eight sequence incrementally until the appropriate torque value in the preceeding table is achieved.

WHY WET TORQUE?

Due to the difference in plating types and thickness, materials, and thread quality of different components, the coefficient of friction varies greatly on any given assembly. Lubrication not only produces a more consistent coefficient of friction, it increases clamping force on sealing area with less torque on the threads. Overtightening causes threads to yield, deform and lose their ability to maintain an adequate load or clamping force on the seating area. Extended operation and severe conditions cause further yielding which results in leaks. Overtightening is the single greatest cause for leaks in metal to metal seat hydraulic connections. It is our firm position, that to not wet torque, is to compromise consistency and quality for convenience.

FLANGE ADAPTERS
HYDRAULIC ADAPTERS

JIC FLANGE ADAPTER CODE 61

6840
503

3000 PSI

PART #	JIC THREAD SIZE 1	FLANGE SIZE 2	LIST PRICE
170088	3/4-16	1/2	---
1700812	3/4-16	3/4	---
17001212	1-1/16-12	3/4	---
17001216	1-1/16-12	1	---
17001616	1-5/16-12	1	---
17001620	1-5/16-12	1-1/4	---
17001624	1-5/16-12	1-1/2	---
17002016	1-5/8-12	1	---
17002020	1-5/8-12	1-1/4	---
17002032	1-5/8-12	2	---
17002424	1-7/8-12	1-1/2	---
17003232	2-1/2-12	2	---
17002024	1-5/8-12	1-1/2	---
17002420	1-7/8-12	1-1/4	---
17001612	1-5/16-12	3/4	---
17002432	1-7/8-12	2	---

6840 503

JIC FLANGE 450 ADAPTER CODE 61

6845
505

3000 PSI

Part #	JIC Thread Size 1	Flange Size 2	
170388	3/4-16	1/2	---
1703812	3/4-16	3/4	---
17031212	1-1/16-12	3/4	---
17031216	1-1/16-12	1	---
17031616	1-5/16-12	1	---
17031620	1-5/16-12	1-1/4	---
17032016	1-5/8-12	1	---
17032020	1-5/8-12	1-1/4	---
17032024	1-5/8-12	1-1/2	---
17033232	2-1/2-12	2	---
17032420	1-7/8-12	1-1/4	---
17032424	1-7/8-12	1-1/2	---
17032432	1-7/8-12	2	---
17031612	1-5/16-12	3/4	---

6845 505

JIC FLANGE 90° ADAPTER CODE 61

3000 PSI

Part #	JIC Thread Size 1	Flange Size 2	List Price
170488	3/4-16	1/2	---
1704812	3/4-16	3/4	---
17041016	7/8-14	1	---
17041212	1-1/16-12	3/4	---
17041216	1-1/16-12	1	---
17041220	1-1/16-12	1-1/4	---
17041612	1-5/16-12	3/4	---
17041616	1-5/16-12	1	---
17041620	1-5/16-12	1-1/4	---
17041624	1-5/16-12	1-1/2	---
17042016	1-5/8-12	1	---
17042020	1-5/8-12	1-1/4	---
17042024	1-5/8-12	1-1/2	---
17042420	1-7/8-12	1-1/4	---
17042432	1-7/8-12	2	---
17043232	2-1/2-12	2	---
17042032	1-5/8-12	2	---
17042424	1-7/8-12	1-1/2	---

6890 504

JIC FLANGE ADAPTER CODE 62

6000 PSI

Part #	JIC Thread Size 1	Flange Size 2	
180088	3/4-16	1/2	---
18001212	1-1/16-12	3/4	---
18001216	1-1/16-12	1	---
18001616	1-5/16-12	1	---
18001620	1-5/16-12	1-1/4	---
18002016	1-5/8-12	1	---
18002020	1-5/8-12	1-1/4	---
18002024	1-5/8-12	1-1/2	---
18002424	1-7/8-12	1-1/2	---
18003232	2-1/2-12	2	---
18001612	1-5/16-12	3/4	---
18001624	1-5/16-12	1-1/2	---
18002420	1-7/8-12	1-1/4	---

6842

FLANGE ADAPTERS
HYDRAULIC ADAPTERS

JIC FLANGE 45° ADAPTER CODE 62

6000 PSI

PART #	JIC THREAD SIZE 1	FLANGE SIZE 2	LIST PRICE
18031212	1-1/16-12	3/4	---
18031216	1-1/16-12	1	---
18031616	1-5/16-12	1	---
18031620	1-5/16-12	1-1/4	---
18032016	1-5/8-12	1	---
18032020	1-5/8-12	1-1/4	---
18032024	1-5/8-12	1-1/2	---
18032424	1-7/8-12	1-1/2	---
18033232	2-1/2-12	2	---
18031612	1-5/16-12	3/4	---
18031624	1-5/16-12	1-1/2	---
18032420	1-7/8-12	1-1/4	---

6847 508

JIC FLANGE 90° ADAPTER - CODE 62

6000 PSI

PART #	JIC THREAD SIZE 1	FLANGE SIZE 2	LIST PRICE
18041212	1-1/16-12	3/4	---
18041216	1-1/16-12	1	---
18041616	1-5/16-12	1	---
18041620	1-5/16-12	1-1/4	---
18042016	1-5/8-12	1	---
18042020	1-5/8-12	1-1/4	---
18042024	1-5/8-12	1-1/2	---
18042424	1-7/8-12	1-1/2	---
18043232	2-1/2-12	2	---
18041612	1-5/16-12	3/4	---
18041624	1-5/16-12	1-1/2	---
18042420	1-7/8-12	1-1/4	---

6842

SPLIT FLANGE PLUG - CODE 61

3000 PSI

PART #	FLANGE SIZE	LIST PRICE
196112	3/4	---
196116	1	---
196120	1-1/4	---
196124	1-1/2	---
196132	2	---

6861P

SPLIT FLANGE PLUG CODE 62

6862P

6000 PSI

PART #	FLANGE SIZE	LIST PRICE
196212	3/4	---
196216	1	---
196220	1-1/4	---
196224	1-1/2	---
196232	2	---

6862P

SPLIT FLANGE KIT CODE 61

SFK

3000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIA.	LIST PRICE
190112	3/4	1.50	---
190116	1	1.75	---
190120	1-1/4	2.00	---
190124	1-1/2	2.38	---
190132	2	2.81	---

SPLIT FLANGE KIT CODE 62

SFXK

6000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIAMETER	LIST PRICE
190212	3/4	1.63	---
190216	1	1.88	---
190220	1-1/4	2.12	---
190224	1-1/2	2.50	---
190232	2	3.12	---

FLANGE ADAPTERS
HYDRAULIC ADAPTERS

SPLIT FLANGE HALF
CODE 61

SF

3000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIAMETER	LIST PRICE
206112	3/4	1.50	---
206116	1	1.75	---
206120	1-1/4	2.00	---
206124	1-1/2	2.38	---
206132	2	2.81	---

SPLIT FLANGE HALF
CODE 62

SFX

6000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIAMETER	LIST PRICE
206212	3/4	1.63	---
206216	1	1.88	---
206220	1-1/4	2.12	---
206224	1-1/2	2.50	---
206232	2	3.12	---

PIPE THREAD FLANGE PAD
CODE 61

W43

3000 PSI

PART #	PIPE SIZE	LIST PRICE
226188	1/2	---
22611212	3/4	---
22611616	1	---
22612020	1-1/4	---
22612424	1-1/2	---
22613232	2	---

PIPE THREAD FLANGE PAD
CODE 62

W44

6000 PSI

PART #	PIPE SIZE	LIST PRICE
22621212	3/4	---
22621616	1	---
22622020	1-1/4	---
22622424	1-1/2	---
22623232	2	---

O-RING FLANGE PAD
CODE 61

W46

3000 PSI

PART #	O-RING THREAD SIZE	PAD SIZE	LIST PRICE
23611212	1-1/16-12	3/4	---
23611616	1-5/16-12	1	---
23612020	1-5/8-12	1-1/4	---
23612424	1-7/8-12	1-1/2	---

O-RING FLANGE PAD
CODE 62

W48

6000 PSI

PART #	O-RING THREAD SIZE	PAD SIZE	LIST PRICE
23621212	1-1/16-12	3/4	---
23621616	1-5/16-12	1	---
23622020	1-5/8-12	1-1/4	---
23622424	1-7/8-12	1-1/2	---

STAINLESS STEEL ADAPTERS

PIPE SWIVELS

JIC FITTINGS

BULKHEAD FITTINGS

PIPE FITTINGS

SAE O-RING BOSS

JIC FEMALE SWIVELS

HOSE CRIMP FITTINGS

ALL MALE THREADS SHIPPED WITH PROTCTIVE COVER

TECHNICAL INFORMATION

316 STAINLESS STEEL ADAPTERS

PRESSURE RATINGS

The hydraulic tube fittings represented by Stainless Adapters Inc. conform to the performance requirements specified in SAE J514, SAE J518, SAE J1453, SAE J1926/ISO 11926 and related standards.
The working pressure ratings listed below are based on a 4:1 design factor for minimum burst. As specified in SAE J514, these are dynamic pressure ratings and the fittings are capable of passing a cyclic endurance (impulse) test for one million cycles at 133 % of the corresponding working pressure.
The rated working pressure for any fitting is based on the lowest pressure rated fitting end. For example, a fitting may include one -4 (1/4") male 37-degree tube end and one -6 (3/8") male pipe end. From the tables below, the rated working pressure for the -4 male 37-degree tube end is 34.5 MPa (5,000 psi) and the rated working pressure of the -6 (3/8") male pipe end is 21 MPa (3,000 psi). The rated working pressure of the fitting would be 21 MPa (3,000 psi).
For proper performance, the design of any hydraulic system should take into consideration the rated working pressures for each of the components of the system, including standard ratings for hose and tubing components and assemblies. For any application, testing should be performed to assure safe and satisfactory performance.

Pressure Ratings for Fittings With NPTF Pipe Threads and Adapter Unions

Nominal Pipe Size		Thread Size		Working Pressures			
Nom SAE Dash Size	Nom Inch Pipe O.D.	Dryseal Pipe Thread (NPTF[1]) Male and Female	Straight Pipe Thread (NPSM[2]) Female Swivels	Fittings With NPTF Pipe Threads		Adapter Unions	
				MPa	psi	MPa	psi
-2	1/8	1/8-27	1/8-27	34.5	5,000	34.5	5,000
-4	1/4	1/4-18	1/4-18	27.5	4,000	34.5	5,000
-6	3/8	3/8-18	3/8-18	21	3,000	27.6	4,000
-8	1/2	1/2-14	1/2-14	21	3,000	24.1	3,500
-12	3/4	3/4-14	3/4-14	17	2,500	15.5	2,250
-16	1	1-11-1/2	1-11-1/2	14	2,000	13.8	2,000
-20	1 1/4	1-1/4-11-1/2	1-1/4-11-1/2	8	1,150	11.2	1,625
-24	1 1/2	1-1/2-11-1/2	1-1/2-11-1/2	7	1,000	8.6	1,250
-32	2	2-11-1/2	2-11-1/2	7	1,000	7.8	1,125

1) Dryseal American Standard Taper Pipe Thread
2) American Standard Straight Pipe Thread for Mechanical Joints

■ Temperature Rating

Material	Identify	Max. Temperature ℉(℃)
316 Stainless Steel	SS	1000(537)
Brass	B	400(204)
Carbon Steel	C	375(190)

Pressure Ratings

37° Flare SAE J514

Allowable Working Pressure Ratings (Capable of 4 to 1 Min. Burst)

Nom.SAE Dash Size	Nom.Tube O.D Inches	37° Flare Straight Thread	Nom.Pipe Size	SAE St. Threads Union and Bulkhead (psi)	Fittings with Pipe Threads (psi)
2	1/8	5/16" - 24	1/8"	5000	5000
3	3/16	3/8" - 24	1/8"	5000	5000
4	1/4	7/16" - 20	1/8"	5000	5000
5	5/16	1/2" - 20	1/8"	5000	5000
6	3/8	9/16" - 18	1/4"	5000	5000
8	1/2	3/4" - 16	3/8"	4500	4000
10	5/8	7/8" - 14	1/2"	3500	3000
12	3/4	1 1/16" - 12	3/4"	3500	3000
14	7/8	1 3/16" - 12	3/4"	3000	2500
16	1	1 5/16" - 12	1"	3000	2000
20	1 1/4	1 5/8" - 12	1 1/4"	2500	1150
24	1 1/2	1 7/8" - 12	1 1/2"	2000	1000
32	2	2 1/2" - 12	2"	1500	1000

JIC threads conform to SAE J514 specifications

NPT

Size Designator	NPT Size	316 Stainless Steel			
		Male		Female	
		psig	bar	psig	bar
1	1/16	11000	757	6700	461
2	1/8	10000	689	6500	447
4	1/4	8000	551	6600	454
6	3/8	7800	537	5300	365
8	1/2	7700	530	4900	337
12	3/4	7300	502	4600	316
16	1	5300	365	4400	303
20	1 1/4	6000	413	5000	344
24	1 1/2	5000	344	4600	316
32	2	3900	268	3900	268

NPT threads meet the requirements of ASME/ANSIB.1.20.1

FEMALE PIPE SWIVELS

316 STAINLESS STEEL ADAPTERS

MALE NPT X FEMALE NPSM SWIVEL

PART #	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS1404-04-04	1/4	1/4	1/4-18	1/4-18	1.440	---
SS1404-06-06	3/8	3/8	3/8-18	3/8-18	1.560	---
SS1404-08-08	1/2	1/2	1/2-14	1/2-14	1.940	---
SS1404-12-12	3/4	3/4	3/4-14	3/4-14	2.060	---
SS1404-16-16	1	1	1-11 1/2	1-11 1/2	2.380	---

SSP: PSX-XC / PARKER: 0107-X-X-SS / AEROQUIP: 259-2045-X-X

316 STAINLESS STEEL FEMALE NPT X FEMALE NPSM SWIVEL

PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS1405-04-04	1/4	1/4	1/4-18	1/4-18	1.440	---
SS1405-06-06	3/8	3/8	3/8-18	3/8-18	1.560	---
SS1405-08-08	1/2	1/2	1/2-14	1/2-14	1.830	---
SS1405-12-12	3/4	3/4	3/4-14	3/4-14	1.960	---
SS1405-16-16	1	1	1-11 1/2	1-11 1/2	2.300	---

SSP: PSX-XFC / PARKER: 0207-X-X-SS / AEROQUIP: 259-2046-X-X

JIC 37°
316 STAINLESS STEEL ADAPTERS

JIC TUBE SLEEVE

PART	(A) SIZE	(L)	LIST PRICE
SS319-04	1/4	.409	----
SS319-06	3/8	.500	---
SS319-08	1/2	.559	---
SS319-10	5/8	.661	---
SS319-12	3/4	.681	---
SS319-16	1	.779	---

SSP: JXS / PARKER: XTX-SS / AEROQUIP: 259-900605-X

JIC TUBE NUT

PART	(A) FJIC SIZE	(A) THREAD	HEX	(L)	LIST PRICE
SS318-04	1/4	7/16-20	9/16	.622	---
SS318-06	3/8	9/16-18	11/16	.728	---
SS318-08	1/2	3/4-16	7/8	.850	---
SS318-10	5/8	7/8-14	1	.980	---
SS318-12	3/4	1-1/16-12	1-1/4	1.031	---
SS318-16	1	1-5/16-12	1-1/2	1.129	---

SSP: JXN / PARKER: XBTX-SS / AEROQUIP: 259-1290-X

JIC CAP

PART	(A) FJIC SIZE	(A) THREAD	HEX	(L) LENGTH	LIST PRICE
SS304-C-04	1/4	7/16-20	9/16	.594	---
SS304-C-06	3/8	9/16-18	11/16	.625	---
SS304-C-08	1/2	3/4-16	7/8	.748	---
SS304-C-10	5/8	7/8-14	1	.842	---
SS304-C-12	3/4	1-1/16-12	1-1/4	.905	---
SS304-C-16	1	1-5/16-12	1-1/2	1.015	---

SSP: AJXZ / PARKER: X FNTX-SS / AEROQUIP: 259-210292-X

STRAIGHTS JIC FLARE 37°

316 STAINLESS STEEL ADAPTERS

MALE JIC UNION

PART	(A) MJIC SIZE	(B) MJIC SIZE	(A) MJIC THREAD	(B) MJIC THREAD	(L)	LIST PRICE
SS2403-04-04	1/4	1/4	7/16-20	7/16-20	1.370	---
SS2403-06-04	3/8	1/4	9/16-18	7/16-20	1.401	---
SS2403-06-06	3/8	3/8	9/16-18	9/16-18	1.409	---
SS2403-08-04	1/2	1/4	3/4-16	7/16-20	1.511	---
SS2403-08-06	1/2	3/8	3/4-16	9/16-18	1.519	---
SS2403-08-08	1/2	1/2	3/4-16	3/4-16	1.618	---
SS2403-10-08	5/8	1/2	7/8-14	3/4-16	1.779	---
SS2403-10-10	5/8	5/8	7/8-14	7/8-14	1.881	---
SS2403-12-04	3/4	1/4	1-1/16-12	7/16-20	1.850	---
SS2403-12-06	3/4	3/8	1-1/16-12	9/16-18	1.850	---
SS2403-12-08	3/4	1/2	1-1/16-12	3/4-16	1.948	---
SS2403-12-12	3/4	3/4	1-1/16-12	1-1/16-12	2.161	---
SS2403-16-12	1	3/4	1-5/16-12	1-1/16-12	2.318	---
SS2403-16-16	1	1	1-5/16-12	1-5/16-12	2.251	---

SSP: JX-XU / PARKER: HTX-SS / AEROQUIP: 259-2027-X-X

MALE JIC X MALE NPT ADAPTER

PART	(A) MJIC SIZE	(B) MNPT SIZE	(A) MJIC THREAD	(B) MNPT THREAD	(L)	LIST PRICE
SS2404-04-02	1/4	1/8	7/16-20	1/8-27	1.220	---
SS2404-04-04	1/4	1/4	7/16-20	1/4-18	1.421	---
SS2404-04-06	1/4	3/8	7/16-20	3/8-18	1.421	---
SS2404-04-08	1/4	1/2	7/16-20	1/2-14	1.681	---
SS2404-06-04	3/8	1/4	9/16-18	1/4-18	1.429	---
SS2404-06-06	3/8	3/8	9/16-18	3/8-18	1.440	---
SS2404-06-08	3/8	1/2	9/16-18	1/2-14	1.688	---
SS2404-08-04	1/2	1/4	3/4-16	1/4-18	1.519	---
SS2404-08-06	1/2	3/8	3/4-16	3/8-18	1.531	---
SS2404-08-08	1/2	1/2	3/4-16	1/2-14	1.712	---
SS2404-08-12	1/2	3/4	3/4-16	3/4-14	1.850	---
SS2404-08-16	1/2	1	3/4-16	1-11 1/2	2.050	---
SS2404-10-08	5/8	1/2	7/8-14	1/2-14	1.889	---
SS2404-12-08	3/4	1/2	1-1/16-12	1/2-14	2.059	---
SS2404-12-12	3/4	3/4	1-1/16-12	3/4-14	2.059	---
SS2404-12-16	3/4	1	1-1/16-12	1-11 1/2	2.250	---
SS2404-16-08	1	1/2	1-5/16-12	1/2-14	2.100	---
SS2404-16-12	1	3/4	1-5/16-12	3/4-14	2.110	---
SS2404-16-16	1	1	1-5/16-12	1-11 1/2	2.299	---

SWAGELOK: SS-X-AN-1-X / SSP: JXC / PARKER: X FTX-SS / AEROQUIP 259-2021-X-X

STRAIGHTS JIC FLARE 37°

316 STAINLESS STEEL ADAPTERS

MALE JIC X FEMALE NPT ADAPTER

PART	(A) MJIC SIZE	(B) FNPT SIZE	(A) MJIC THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS2405-04-04	1/4	1/4	7/16-20	1/4-18	1.389	---
SS2405-06-04	3/8	1/4	9/16-18	1/4-18	1.409	---
SS2405-06-06	3/8	3/8	9/16-18	3/8-18	1.470	---
SS2405-08-08	1/2	1/2	3/4-16	1/2-14	1.790	---
SS2405-12-12	3/4	3/4	1-1/16-12	3/4-14	2.059	---
SS2405-16-16	1	1	1-5/16-12	1-11 1/2	2.350	---

SSP: JX-XFC / PARKER: XXGTX-SS / AEROQUIP: 259-2022-X-X

FEMALE JIC X MALE JIC (REDUCER-EXPANDER)

PART	(A) FJIC SIZE	(B) MJIC SIZE	(A) FJIC THREAD	(B) MJIC THREAD	(L)	LIST PRICE
SS2406-06-04	3/8	1/4	9/16-18	7/16-20	1.118	---
SS2406-08-04	1/2	1/4	3/4-16	7/16-20	1.448	---
SS2406-08-06	1/2	3/8	3/4-16	9/16-18	1.311	---
SS2406-10-08	5/8	1/2	7/8-14	3/4-16	1.409	---
SS2406-12-04	3/4	1/4	1-1/16-12	7/16-20	1.500	---
SS2406-12-06	3/4	3/8	1-1/16-12	9/16-18	1.480	---
SS2406-12-08	3/4	1/2	1-1/16-12	3/4-16	1.559	---
SS2406-16-04	1	1/4	1-5/16-12	7/16-20	1.570	---
SS2406-16-06	1	3/8	1-5/16-12	9/16-18	1.578	---
SS2406-16-08	1	1/2	1-5/16-12	3/4-16	1.669	---
SS2406-16-12	1	3/4	1-5/16-12	1-1/16-12	1.877	---

SSP: PSX-XFC / PARKER: 0207-X-X-SS / AEROQUIP: 259-2046-X-X

JIC PLUG

PART	(A) MJIC SIZE	(A) MJIC THREAD	HEX	(L)	LIST PRICE
SS2408-04	1/4	7/16-20	1/2	.799	---
SS2408-06	3/8	9/16-18	5/8	.838	---
SS2408-08	1/2	3/4-16	13/16	.940	---
SS2408-10	5/8	7/8-14	15/16	1.098	---
SS2408-12	3/4	1-1/16-12	1-1/8	1.279	---
SS2408-16	1	1-5/16-12	1-3/8	1.330	---

SSP: JXP / PARKER: XRNTX-SS / AEROQUIP: 259-900599-X

BULKHEAD FITTINGS

316 STAINLESS STEEL ADAPTERS

JIC BULKHEAD NUT

PART	(A) BN SIZE	(A) THREAD	HEX	(L)	LIST PRICE
SS306-04	1/4	7/16-20	11/16	.279	---
SS306-06	3/8	9/16-18	13/16	.271	---
SS306-08	1/2	3/4-16	1	.311	---
SS306-10	5/8	7/8-14	1-1/8	.358	---
SS306-12	3/4	1-1/16-12	1-3/8	.409	---
SS306-16	1	1-5/16-12	1-5/8	.409	---

SSP: XBN / PARKER: XWLN-SS / AEROQUIP: 259-210212-X-X

MALE JIC BULKHEAD UNION

PART	(A) MJIC SIZE	(B) MJIC SIZE	(A) MJIC THREAD	(B) MJIC THREAD	(L)	LIST PRICE
SS2700-04-04	1/4	1/4	7/16-20	7/16-20	2.070	---
SS2700-06-06	3/8	3/8	9/16-18	9/16-18	2.181	---
SS2700-08-08	1/2	1/2	3/4-16	3/4-16	2.440	---
SS2700-12-12	3/4	3/4	1-1/16-12	1-1/16-12	3.090	---
SS2700-16-16	1	1	1-5/16-12	1-5/16-12	3.141	---

SSP: JXBU / PARKER: XWTX-SS / AEROQUIP: 259-2041-X-X

FEMALE NPT X MALE JIC BULKHEAD CONNECTOR

PART	(A) FNPT SIZE	(B) MJIC SIZE	(A) FNPT THREAD	(B) MJIC THREAD	(L)	LIST PRICE
SS2705-04-04	1/4	1/4	1/4-18	7/16-20	2.078	---
SS2705-06-06	3/8	3/8	3/8-18	9/16-18	2.220	---
SS2705-08-08	1/2	1/2	1/2-14	3/4-16	2.610	---
SS2705-12-12	3/4	3/4	3/4-14	1-1/16-12	2.992	---
SS2705-16-16	1	1	1-11 1/2	1-5/16-12	3.228	---

SSP: JX-XBFC / PARKER: X-XWGTX-SS / AEROQUIP: 259-2239-X-X

FEMALE PIPE BULKHEAD UNION

PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS2707-04-04	1/4	1/4	1/4-18	1/4-18	1.500	---
SS2707-06-06	3/8	3/8	3/8-18	3/8-18	1.311	---
SS2707-08-08	1/2	1/2	1/2-14	1/2-14	1.500	---

SSP: AXAC

PIPE FITTINGS
316 STAINLESS STEEL ADAPTERS

HEX PIPE COUPLING

PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS5000-02-02	1/8	1/8	1/8-27	1/8-27	.748	---
SS5000-04-04	1/4	1/4	1/4-18	1/4-18	1.129	---
SS5000-06-04	3/8	1/4	3/8-18	1/4-18	1.129	---
SS5000-06-06	3/8	3/8	3/8-18	3/8-18	1.129	---
SS5000-08-06	1/2	3/8	1/2-14	3/8-18	1.500	---
SS5000-08-08	1/2	1/2	1/2-14	1/2-14	1.500	---
SS5000-12-12	3/4	3/4	3/4-14	3/4-14	1.531	---
SS5000-16-08	1	1/2	1-11 1/2	1/2-14	1.889	---
SS5000-16-12	1	3/4	1-11 1/2	3/4-14	1.889	---
SS5000-16-16	1	1	1-11 1/2	1-11 1/2	1.889	---

SWAGELOK: SS-XHGG-X / SSP: XHC / PARKER: XGG-SS / AEROQUIP: 259-2096-X-X

HEX PIPE NIPPLE

PART	(A) MNPT SIZE	(B) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	L	LIST PRICE
SS5404-02-02	1/8	1/8	1/8-27	1/8-27	1.059	---
SS5404-04-02	1/4	1/8	1/4-18	1/8-27	1.259	---
SS5404-04-04	1/4	1/4	1/4-18	1/4-18	1.448	---
SS5404-06-04	3/8	1/4	3/8-18	1/4-18	1.448	---
SS5404-06-06	3/8	3/8	3/8-18	3/8-18	1.448	---
SS5404-08-04	1/2	1/4	1/2-14	1/4-18	1.700	---
SS5404-08-06	1/2	3/8	1/2-14	3/8-18	1.700	---
SS5404-08-08	1/2	1/2	1/2-14	1/2-14	1.889	---
SS5404-12-04	3/4	1/4	3/4-14	1/4-18	1.771	---
SS5404-12-06	3/4	3/8	3/4-14	3/8-18	1.771	---
SS5404-12-08	3/4	1/2	3/4-14	1/2-14	1.960	---
SS5404-12-12	3/4	3/4	3/4-14	3/4-14	1.960	---
SS5404-16-08	1	1/2	1-11 1/2	1/2-14	2.090	---
SS5404-16-12	1	3/4	1-11 1/2	3/4-14	2.149	---
SS5404-16-16	1	1	1-11 1/2	1-11 1/2	2.338	---

SWAGELOK: SS-X-HN-X / SSP: XHN / PARKER: X-XFF-SS / AEROQUIP: 259-2083-X-X

PIPE NIPPLE

PART	(A) MNPT SIZE	(A) MNPT THREAD	(L)	LIST PRICE
SSCN-04	1/4	1/4-18	1.120	---
SSCN-06	3/8	3/8-18	1.125	---
SSCN-08	1/2	1/2-14	1.507	---
SSCN-12	3/4	3/4-14	1.500	---
SSCN-16	1	1-11 1/2	1.880	---

SWAGELOK: SS-X-CN / PARKER: X-X MCN-SS / AEROQUIP: 259-2083-X-X

STEEL PIPE FITTINGS
316 STAINLESS STEEL ADAPTERS

MALE NPT X FEMALE NPT EXPANDER

PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS5405-02-02	1/8	1/8	1/8-27	1/8-27	1.039	---
SS5405-02-04	1/8	1/4	1/8-27	1/4-18	1.208	---
SS5405-04-04	1/4	1/4	1/4-18	1/4-18	1.389	---
SS5405-04-06	1/4	3/8	1/4-18	3/8-18	1.440	---
SS5405-04-08	1/4	1/2	1/4-18	1/2-14	1.681	---
SS5405-06-06	3/8	3/8	3/8-18	3/8-18	1.440	---
SS5405-06-08	3/8	1/2	3/8-18	1/2-14	1.681	---
SS5405-06-12	3/8	1/2	3/8-18	3/4-14	1.740	---
SS5405-08-08	1/2	1/2	1/2-14	1/2-14	1.870	---
SS5405-08-12	1/2	3/4	1/2-14	3/4-14	1.929	---
SS5405-08-16	1/2	1	1/2-14	1-11 1/2	2.181	---
SS5405-12-12	3/4	3/4	3/4-14	3/4-14	1.929	---
SS5405-12-16	3/4	1	3/4-14	1-11 1/2	2.181	---
SS5405-16-16	1	1	1-11 1/2	1-11 1/2	2.370	---

SWAGELOK: SS-X-RA-X / SSP: XXXRA / PARKER: X-XFG-SS / AEROQUIP: 259-2040-X-X

MALE NPT X FEMALE NPT BUSHING/ REDUCER

PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS5406-04-02	1/4	1/8	1/4-18	1/8-27	.850	---
SS5406-06-04	3/8	1/4	3/8-18	1/4-18	.850	---
SS5406-08-04	1/2	1/4	1/2-14	1/4-18	1.098	---
SS5406-08-06	1/2	3/8	1/2-14	3/8-18	1.098	---
SS5406-12-04	3/4	1/4	3/4-14	1/4-18	1.169	---
SS5406-12-06	3/4	3/8	3/4-14	3/8-18	1.169	---
SS5406-12-08	3/4	1/2	3/4-14	1/2-14	1.169	---
SS5406-16-04	1	1/4	1-11 1/2	1/4-18	.940	---
SS5406-16-06	1	3/8	1-11 1/2	3/8-18	.940	---
SS5406-16-08	1	1/2	1-11 1/2	1/2-14	.940	---
SS5406-16-12	1	3/4	1-11 1/2	3/4-14	.940	---
SS5406-20-12	1-1/4	3/4	1-1/4-11 1/2	3/4-14	1.47	---

SWAGELOK: SS-XRB-X / SSP: XXXRA / PARKER: XXXPTR-SS / AEROQUIP: 259-2081-X-X

HEX PIPE PLUG

PART	(A) MNPT SIZE	(A) MNPT THREAD	HEX SIZE	(L)	(L)	LIST PRICE
SS5406-P-04	1/4	1/4-18	9/16	.751	.850	---
SS5406-P-06	3/8	3/8-18	11/16	.779	.850	---
SS5406-P-08	1/2	1/2-14	7/8	1.118	1.098	---
SS5406-P-12	3/4	3/4-14	1-1/8	1.169	1.098	---
SS5406-P-16	1	1-11 1/2	1-3/8	1.397	1.169	---

SWAGELOK: SS-X-P / SSP: XXXRA / PARKER: X-HHP-SS / AEROQUIP: 259-2082-X

HOLLOW HEX PIPE PLUG

PART	(A) MNPT SIZE	(A) MNPT THREAD	HEX SIZE	(L)	(L)	LIST PRICE
SS5406-HHP-04	1/4	1/4-18	1/4	.460	.850	---
SS5406-HHP-06	3/8	3/8-18	5/16	.460	.850	---
SS5406-HHP-08	1/2	1/2-14	3/8	.610	1.098	---
SS5406-HHP-12	3/4	3/4-14	9/16	.618	1.098	---
SS5406-HHP-16	1	1-11 1/2	5/8	.771	1.169	---

SWAGELOK: SS-X-HP / SSP: XCP / PARKER: X-HP-SS / AEROQUIP: 259-2222-X

HEX PIPE CAP

PART	(A) FNPT SIZE	(A) FNPT THREAD	HEX	(L)	LIST PRICE
SS5406-C-04	1/4	1/4-18	3/4	.811	---
SS5406-C-06	3/8	3/8-18	7/8	.811	---
SS5406-C-08	1/2	1/2-14	1	1.000	---
SS5406-C-12	3/4	3/4-14	1-5/16	1.129	---
SS5406-C-16	1	1-11 1/2	1-5/8	1.500	---

SWAGELOK: SS-X-C / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

MALE PIPE ELBOW 90°

PART	(A) MNPT SIZE	(B) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	(L)	LIST PRICE
SS5500-02-02	1/8	1/8	1/8-27	1/8-27	.748	---
SS5500-04-04	1/4	1/4	1/4-18	1/4-18	1.129	---
SS5500-06-06	3/8	3/8	3/8-18	3/8-18	1.129	---
SS5500-08-08	1/2	1/2	1/2-14	1/2-14	1.129	---
SS5500-12-12	3/4	3/4	3/4-14	3/4-14	1.500	----
SS5500-16-16	1	1	1-11 1/2	1-11 1/2	1.500	---

SWAGELOK: SS-X-ME / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

MALE NPT X FEMALE NPT STREET ELBOW 90°

PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	LIST PRICE
SS5502-02-02	1/8	1/8	1/8-27	1/8-27	---
SS5502-04-04	1/4	1/4	1/4-18	1/4-18	---
SS5502-06-06	3/8	3/8	3/8-18	3/8-18	---
SS5502-08-08	1/2	1/2	1/2-14	1/2-14	---
SS5502-12-12	3/4	3/4	3/4-14	3/4-14	---
SS5502-16-16	1	1	1-11 1/2	1-11 1/2	---

SWAGELOK: SS-X-ME / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

STEEL PIPE FITTINGS
316 STAINLESS STEEL ADAPTERS

FEMALE PIPE ELBOW 90°

PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	LIST PRICE
SS5504-02-02	1/8	1/8	1/8-27	1/8-27	---
SS5504-04-04	1/4	1/4	1/4-18	1/4-18	---
SS5504-06-06	3/8	3/8	3/8-18	3/8-18	---
SS5504-08-08	1/2	1/2	1/2-14	1/2-14	---
SS5504-12-12	3/4	3/4	3/4-14	3/4-14	---
SS5504-16-16	1	1	1-11 1/2	1-11 1/2	---

SWAGELOK: SS-X-E / SSP: XFF / PARKER: XDD-SS / AEROQUIP: 259-2087-X-X

MALE PIPE TEE

PART	(A) MNPT SIZE	(B) MNPT SIZE	(C) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	(C) MNPT THREAD	LIST PRICE
SS5600-04-04-04	1/4	1/4	1/4	1/4-18	1/4-18	1/4-18	---
SS5600-06-06-06	3/8	3/8	3/8	3/8-18	3/8-18	3/8-18	---
SS5600-08-08-08	1/2	1/2	1/2	1/2-14	1/2-14	1/2-14	---
SS5600-12-12-12	3/4	3/4	3/4	3/4-14	3/4-14	3/4-14	---
SS5600-16-16-16	1	1	1	1-11 1/2	1-11 1/2	1-11 1/2	---

SWAGELOK: SS-X-MT / SSP: XMMM / PARKER: XRRS-SS / AEROQUIP: 259-2257-X-X

FEMALE PIPE TEE

PART	(A) FNPT SIZE	(B) FNPT SIZE	(C) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(C) FNPT THREAD	LIST PRICE
SS5605-02-02-02	1/8	1/8	1/8	1/8-27	1/8-27	1/8-27	---
SS5605-04-04-04	1/4	1/4	1/4	1/4-18	1/4-18	1/4-18	---
SS5605-06-06-06	3/8	3/8	3/8	3/8-18	3/8-18	3/8-18	---
SS5605-08-08-08	1/2	1/2	1/2	1/2-14	1/2-14	1/2-14	---
SS5605-12-12-12	3/4	3/4	3/4	3/4-14	3/4-14	3/4-14	---
SS5605-16-16-16	1	1	1	1-11 1/2	1-11 1/2	1-11 1/2	---

SWAGELOK: SS-X-T / SSP: XFF / PARKER: XMMO-SS / AEROQUIP: 259-2090-X-X

SAE O-RING BOSS (ORB)

316 STAINLESS STEEL ADAPTERS

MALE JIC X MALE SAE O-RING BOSS

PART	(A) MJIC SIZE	(B) MORB SIZE	(A) MJIC THREAD	(B) MORB THREAD	(L)	
SS6400-04-04	1/4	1/4	7/16-20	7/16-20	1.228	---
SS6400-04-06	1/4	3/8	7/16-20	9/16-18	1.291	---
SS6400-06-06	3/8	3/8	9/16-18	9/16-18	1.299	---
SS6400-06-08	3/8	1/2	9/16-18	3/4-16	1.377	---
SS6400-06-10	3/8	5/8	9/16-18	7/8-14	1.500	---
SS6400-08-06	1/2	3/8	3/4-16	9/16-18	1.440	---
SS6400-08-08	1/2	1/2	3/4-16	3/4-16	1.488	---
SS6400-08-10	1/2	5/8	3/4-16	7/8-14	1.598	---
SS6400-08-12	1/2	3/4	3/4-16	1-1/16-12	1.759	---
SS6400-12-08	3/4	1/2	1-1/16-12	3/4-16	1.940	---
SS6400-12-12	3/4	3/4	1-1/16-12	1-1/16-12	1.968	---
SS6400-12-16	3/4	1	1-1/16-12	1-5/16-12	1.988	---
SS6400-16-12	1	3/4	1-5/16-12	1-1/16-12	2.039	---
SS6400-16-16	1	1	1-5/16-12	1-5/16-12	2.039	---

SWAGELOK: SS-X-SAE-1-XAN / SSP: JXGC / PARKER: XF50X-SS / AEROQUIP: 259-202702-X-X

MALE SAE O-RING BOSS X FEMALE JIC SWIVEL

PART	(A) MORB SIZE	(B) FJIC SIZE	(A) MORB THREAD	(B) FJIC THREAD	(L)	
SS6402-04-04	1/4	1/4	7/16-20	7/16-20	1.625	---
SS6402-06-06	3/8	3/8	9/16-18	9/16-18	1.842	---
SS6402-08-08	1/2	1/2	3/4-16	3/4-16	2.078	---
SS6402-12-12	3/4	3/4	1-1/16-12	1-1/16-12	2.582	---
SS6402-16-16	1	1	1-5/16-12	1-5/16-12	2.807	---

SSP: JSX6C / PARKER: XF650X-SS / AEROQUIP: 259-2266-X-X

MALE SAE O-RING BOSS X FEMALE NPT

PART	(A) MORB SIZE	(B) FNPT SIZE	(A) MORB THREAD	(B) FNPT SIZE	(L)	LIST PRICE
SS6405-04-04	1/4	1/4	7/16-20	1/4-18	1.161	---
SS6405-06-04	3/8	1/4	9/16-18	1/4-18	1.090	---
SS6405-06-06	3/8	3/8	9/16-18	3/8-18	1.330	---
SS6405-08-08	1/2	1/2	3/4-16	1/2-14	1.468	---
SS6405-12-08	3/4	1/2	1-1/16-12	1/2-14	1.409	---
SS6405-12-12	3/4	3/4	1-1/16-12	3/4-14	1.590	---
SS6405-16-16	1	1	1-5/16-12	1-11 1/2	1.897	---

SWAGELOK: SS-X-SAE-7-X / SSP: XXXGCF / PARKER: XXX-F50G-SS / AEROQUIP: 259-2216-X-X

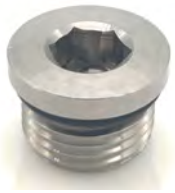
SAE O-RING BOSS (ORB)
316 STAINLESS STEEL ADAPTERS

MALE SAE O-RING BOSS HEX PLUG

PART	(A) MORB SIZE	(A) MORB THREAD	HEX	(L)	LIST PRICE
SS6408-04	1/4	7/16-20	9/16	.669	---
SS6408-06	3/8	9/16-18	11/16	.728	---
SS6408-08	1/2	3/4-16	7/8	.779	---
SS6408-10	5/8	7/8-14	1"	.929	---
SS6408-12	3/4	1-1/16-12	1-1/4	1.090	---
SS6408-16	1	1-5/16-12	1-1/2	1.118	---

SWAGELOK: SS-X-HPST / SSP: XCGP / PARKER: XHP50N-SS / AEROQUIP: 259-FF2138-X

MALE SAE O-RING BOSS HOLLOW HEX PLUG



PART	(A) MORB SIZE	(A) MORB THREAD	HEX SIZE	(L)	LIST PRICE
SS6408-HH-02	1/8	5/16-24	1/8	.401	---
SS6408-HH-04	1/4	7/16-20	3/16	.468	---
SS6408-HH-06	3/8	9/16-18	1/4	.500	---
SS6408-HH-08	1/2	3/4-16	5/16	.578	---
SS6408-HH-10	5/8	7/8-14	3/8	.649	---
SS6408-HH-12	3/4	1-1/16-12	9/16	.767	---
SS6408-HH-16	1	1-5/16-12	5/8	.767	---

SWAGELOK: SS-X-PST / SSP: XGP / PARKER: XP50N-SS / AEROQUIP: 259-900598-X

FEMALE JIC SWIVELS
316 STAINLESS STEEL ADAPTERS

MALE NPT X FEMALE JIC SWIVEL

PART	(A) MNPT SIZE	(B) FJIC SIZE	(A) MNPT THREAD	(B) FJIC THREAD	(L)	LIST PRICE
SS6505-04-04	1/4	1/4	1/4-18	7/16-20	1.807	---
SS6505-06-06	3/8	3/8	3/8-18	9/16-18	1.952	---
SS6505-08-08	1/2	1/2	1/2-14	3/4-16	2.358	---
SS6505-12-12	3/4	3/4	3/4-14	1-1/16-12	2.668	---
SS6505-16-16	1	1	1-11 1/2	1-5/16-12	3.055	---

SWAGELOK: JSX-XC / PARKER: XXXF6X-SS / AEROQUIP: 259-2018-X-X

FEMALE NPT X FEMALE JIC SWIVEL

PART	(A) FNPT SIZE	(B) FJIC SIZE	(A) FNPT THREAD	(B) FJIC THREAD	(L)	LIST PRICE
SS6506-04-04	1/4	1/4	1/4-18	7/16-20	1.862	---
SS6506-06-06	3/8	3/8	3/8-18	9/16-18	2.011	---
SS6506-08-08	1/2	1/2	1/2-14	3/4-16	2.389	---
SS6506-12-12	3/4	3/4	3/4-14	1-1/16-12	2.673	---
SS6506-16-16	1	1	1-11 1/2	1-5/16-12	3.114	---

SWAGELOK: JSX-XFC / PARKER: X-XG6X-SS / AEROQUIP: 259-2242-X-X

CRIMP HOSE FITTINGS
316 STAINLESS STEEL ADAPTERS

STRAIGHT MALE NPT PIPE - RIGID

PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	MNPT THREAD	(L)	LIST PRICE
SS43-04-04MP	-04	1/4	-04	1/4-18	1.862	---
SS43-04-06MP	-04	1/4	-06	3/8-18	2.011	---
SS43-06-04MP	-06	3/8	-04	1/4-18	2.389	---
SS43-06-06MP	-06	3/8	-06	3/8-18	2.673	---
SS43-08-08MP	-08	1/2	-08	1/2-14	3.114	---
SS43-10-08MP	-10	5/8	-08	1/2-14	1.590	---
SS43-12-12MP	-12	3/4	-12	3/4-14	1.897	---
SS43-16-16MP	-16	1	-16	1-11-1/2		---

PARKER: 10143-X-XC

STRAIGHT FEMALE JIC - SWIVEL

PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	FJIC THREAD	(L)	LIST PRICE
SS43-04-04FJ	-04	1/4	-04	7/16-20	1.862	---
SS43-04-06FJ	-04	1/4	-06	9/16-18	2.011	---
SS43-06-04FJ	-06	3/8	-04	7-16-20	2.389	---
SS43-06-06FJ	-06	3/8	-06	9/16-18	2.673	---
SS43-06-08FJ	-06	3/8	-08	3/4-16	3.114	---
SS43-08-08FJ	-08	1/2	-08	3/4-16	1.590	---
SS43-08-10FJ	-08	1/2	-10	7/8-14	1.897	---

PARKER: 10643-X-XC

90 DEGREE FEMALE JIC - SWIVEL

PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	FJIC THREAD	LIST PRICE
SS43-04-04FJ90	-04	1/4	-04	7/16-20	---
SS43-04-06FJ90	-04	1/4	-06	9/16-18	---
SS43-06-06FJ90	-06	3/8	-06	9/16-18	---
SS43-08-08FJ90	-08	1/2	-08	3/4-16	---
SS43-12-12FJ90	-12	3/4	-12	1-1/16-12	---
SS43-16-16FJ90	-16	1	-16	1-5/16-12	---

PARKER: 10143-X-XC

STRAIGHT MALE NPT - API

PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	MNPT THREAD	LIST PRICE
BW-16-16API-C	-16	1	-16	1-11 1/2	----

PRODUCT SPECIFICATIONS – BW SERIES MALE API BOP CRIMP FITTING

PART	O.D. (INCHES)	I.D. (INCHES)	LENGTH (INCHES)	LIST PRICE
BOPF-C	2.360	2.225	5.195	----

PRODUCT SPECIFICATIONS – BW SERIES MALE API BOP CRIMP FERRULE

MIDLAND INDUSTRIES

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Standard Terms and Conditions of Sale

Any order by a person ("Buyer") for goods (an "Order"), if accepted, is accepted subject to these Midland Industries Standard Terms and Conditions of Sale ("T&Cs"), which are incorporated into any acceptance, acknowledgement, invoice and other document issued by Midland Industries ("Seller") in response to such Order (each a "Response"), and any reference thereto shall include these T&Cs. No waiver, alteration, or modification of these T&Cs shall be valid unless expressly agreed to in writing by Seller. The T&Cs constitute the entire agreement between the parties and any different, additional or conflicting terms or conditions set forth in Buyer's purchase order or any other document issued by Buyer are expressly objected to by Seller and the terms hereof, including those contained in the applicable Response, shall exclusively govern the purchase and sale of the goods covered by the Response unless there is another manually signed agreement between the parties, which shall control to the extent there is a conflict between the terms of such agreement and these T&Cs.

Payment Terms. Payment terms are 2%-10days/net 30 on approved accounts in good standing and shall be paid in United States dollars. The 2% discount terms is for purchased goods only-there is no discount off of freight. Any additional discounts taken will be charged back to the account, and is due by the customer. The allowed discount amount is stated on each invoice. Shipment may be held if account is past due. Buyer agrees that any overdue amounts shall be subject to a late payment charge on the overdue balance of 1.5% per month or such lesser amount as is the maximum rate of interest allowed by law. Buyer shall pay any and all reasonable costs, including attorneys' fees, incurred by Seller while collecting any delinquent balance. Debit memos are not accepted unless approved.

Price. The Seller list or quoted price is subject to change without notice. The goods are invoiced at prices in effect on date of shipment. Prices do not include taxes, if any, based upon or measured by the sales price, which taxes will be added to the prices where applicable. Any taxes which Seller may be required to pay or collect, upon or with respect to the sale, purchase, delivery, storage, processing, use, or transportation of the goods purchased hereunder, shall be for Buyer's account, and shall be paid promptly by Buyer to Seller upon demand.

Delivery Terms. All goods are sold FOB our shipping USA locations. Title and risk of loss passes to the buyer upon delivery to the carrier. Freight is prepaid via the carrier of our choice on orders totaling $1,500 or more to any destination in the USA. Backorders for items from prepaid orders that are marked in our price list as "stock" items will be shipped prepaid along with upcoming prepaid orders when possible. Non-stocked or special-ordered items will be shipped when available. Buyer is responsible for costs associated with shipment upon acceptance if so assigned based on freight classification (*i.e.*, "prepaid" or FOB)

Title/Security. Unless a conditional sale is noted in this Agreement, title to the goods covered by this Agreement shall pass to Buyer upon delivery to carrier. Buyer hereby grants Seller and Seller hereby reserves a purchase money security interest in and to the goods sold to Buyer together with all proceeds thereof to secure Buyer's performance and payment. Buyer agrees upon Seller's request to do all acts and execute all documents reasonably necessary to assist Seller's perfection and maintenance of any such security title and right of possession, including, but not limited to, executing and filing documents with the appropriate governmental agency.

Orders. (A) Domestic (USA) Sales. Buyer shall submit a purchase order ("Purchase Order") for the goods which shall, at minimum, include: (a) part number of the goods ordered; (b) quantity; (c) price of the goods; (d) requested delivery date; and (e) shipping instructions and shipping address, including a statement that the goods will be shipped in accordance with these T&Cs. All Purchase Orders are subject to acceptance by Seller. Buyer shall be responsible for all additional costs resulting from errors made in connection with telephone, online, or hand written Purchase Orders accepted by Seller and any errors related to such a Purchase Order must be disputed within 1 hour from Seller's receipt of the Purchase Order. Confirming Purchase Orders are not accepted by Seller. If such a confirming Purchase Order is sent to Seller, it may be treated as an original open Order and duplicated. Seller will not be responsible for expenses or inconveniences incurred thereby. If Buyer's Order is in the form of a blanket Purchase Order, Buyer agrees that each release shall be treated as a separate sales transaction hereunder, that all releases shall be non-cancelable and, unless agreed in writing by Seller, all releases under such blanket Purchase Order shall be accepted by Buyer within 12 months of Seller's Order acknowledgement. If the aggregate purchase price of goods pursuant to a Purchase Order is under $50, or such other amount that is agreed to from time to time by the parties, then the cost of such goods shall be rounded up to that minimum order value.

Order Cancellation/Amendment. Orders cannot be canceled or amended except with Seller's consent. Cancellation charges may be applied at Seller's discretion. Seller may, in its sole discretion and without liability, alter the specifications for any goods.

Acceptance. Buyer shall conduct any incoming inspection tests on the goods within 5 days of delivery. In the event of any shortage, damage or discrepancy in or to a shipment of goods or pricing discrepancies, Buyer shall promptly give notice, but in no event later than within 15 days of delivery thereof to Seller and shall furnish such written evidence or other documentation as Seller reasonably may deem appropriate. If such evidence indicates, in Seller's reasonable judgment, that such shortage, damage or discrepancy existed at the time of delivery of the goods to the carrier, Seller shall promptly deliver additional or substitute goods to Buyer; provided, however, that Seller may, in its sole discretion, require Buyer to return all damaged goods prior to delivery of substitute goods. If Buyer shall fail to timely give Seller such written notice, the goods shall be deemed to conform to the warranty and Buyer shall be deemed to have accepted the goods and shall pay for the goods in accordance herewith.

Termination. Seller shall have the right to cancel for default hereunder all or any part of Buyer's order. This right of cancellation is in addition to and not in lieu of any other remedies which Seller may have in law or equity.

Returns. Returns without the proper paperwork will not be accepted. Once the return paperwork has been received by the buyer, that return goods authorization will expire in 30 days. No goods shall be returned to Seller without Seller's prior written authorization to Buyer to make such returns and must be returned within 30 days of such authorization at Buyer's cost. If Buyer returns goods in the manner required under the previous sentence, and if the returned goods are (a) in new, unused, unopened and undamaged condition; and (b) not more than 12 months after the original invoice date; the returned goods will, subject to the applicable handling charge, be accepted by Seller for return. Used or discontinued goods or parts or goods specially manufactured will not be accepted for credit unless specifically agreed to by Seller in its sole discretion. Buyer's sole remedy for returns of goods shall be a credit for the purchase price less any handling charges. Normal returned goods are subject to a 10% restocking fee. Some returns, such as inventory returns, are subject to a 25% restocking fee, unless otherwise approved by Midland. Returns found to be free of material and workmanship defects will be held for 20 days and if Buyer does not provide Seller repair or return instructions, the Seller will scrap the goods.

Buyer's Specifications. Buyer shall be solely responsible for ensuring that all specifications, drawings, information, advice, recommendations or requests provided to Seller by Buyer or any of its agents are accurate and suitable. Seller's examination or consideration of any such specifications, drawings, information, advice, recommendations or requests shall not result in any liability on the part of Seller.

Seller Warranty. Seller warrants that goods sold hereunder are warranted to be free from defects in material and workmanship for a period of one year from the date of invoice when used according to the manufacturer's recommended usage and in an ordinary manner. Seller's liability for breach of this warranty is limited to the repair of or replacement in kind or credit, at Seller's option, of any items proved defective, in Seller's reasonable discretion, provided the allegedly defective goods are returned to Seller prepaid. All costs and expense related to shipping of any replacement parts or goods shall be paid by Seller if there is a breach of this warranty but Buyer shall pay for all installation costs. Buyer must provide prompt written notice to Seller of any breach of this warranty to obtain its benefits. THE WARRANTY EXPRESSED ABOVE IS IN LIEU OF AND EXCLUSIVE OF ALL OTHER WARRANTIES. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, EXCEPT AS STATED HEREIN. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE SPECIFICALLY DISCLAIMED. SELLER'S LIABILITY FOR BREACH OF WARRANTY IS AS HEREIN STATED AND IS THE EXCLUSIVE REMEDY AND IN NO EVENT SHALL SELLER BE LIABLE OR RESPONSIBLE FOR INCIDENTAL, SPECIAL, INDIRECT, PUNITIVE, OR CONSEQUENTIAL DAMAGES OR LOST PROFITS, OR EVEN IF THE POSSIBILITY OF SUCH INCIDENTAL, SPECIAL, INDIRECT, PUNITIVE OR CONSEQUENTIAL DAMAGES, OR LOST PROFITS HAS BEEN MADE KNOWN TO SELLER. THE WARRANTY SET FORTH ABOVE IS SOLELY FOR THE BENEFIT OF BUYER. **All claims hereunder shall be made by Buyer and not by Buyer's customers.** It shall not be deemed a "defect," and Seller will not be liable under the warranty in this Section 11, if the goods have been exposed to any: (1) maintenance, repair, or other use that is improper for the good's ordinary use or otherwise not in compliance with Seller's instruction; (2) goods alteration, modification or repair by anyone other than Seller or authorized by Seller; (3) damage after shipment to Buyer; (4) improper voltage or wiring; or (5) use of parts that are not 100% compatible with the goods.

Buyer Warranty. Buyer shall provide a no defect in materials or workmanship warranty with respect to each product sold to an end customer for a period not less than the then remaining warranty period related to such product and afforded to Buyer pursuant to Section (Seller Warranty) above. Except with respect to the remedies provided by Seller to Buyer under Section (Seller Warranty), any other warranties or representations, or remedies for breach thereof, which Buyer may provide to its end customers shall be the sole responsibility of Buyer, and Seller shall not be bound thereby. Unless Buyer receives Seller's prior written consent, Buyer will not sell Seller's products to end-users or intermediaries that sell to end-users that will use or sell the products in a nuclear or in an-aircraft application or for any other application that Seller may notify Buyer of in writing.

Damages Amount Limitation. Other than as set forth in Section (Buyer Indemnification) and any breaches of Section (Confidentiality) hereof, Seller's cumulative liability for damages to Buyer for any cause whatsoever, and regardless of the form of action, whether in contract or in tort, including, but not limited to, negligence, shall be limited to the total contract price of the goods sold hereunder, plus or minus, as applicable, the amounts of all unpaid accounts payable and receivable between the parties, if any.

Damages Limitation. In no event shall Seller's liability of any kind include any special, indirect, incidental or consequential loss or damage or lost profits, even if Seller shall have been advised of the possibility of such potential loss or damage.

Sole Remedy. The sole and exclusive remedy for breach of any non-warranty obligation of Seller and the sole remedy for Seller's liability of any kind (including liability for negligence) with respect to the goods and services provided to Buyer shall be to use all commercially reasonable efforts to promptly cure such breach. Buyer must commence any suit for a cause of action arising hereunder within one year from the date in which the facts that gave rise to the cause of action first occurred.

Buyer Indemnification. Buyer shall hold harmless, indemnify and defend (at Seller's request) Seller for any and all damages, liabilities, costs and expenses (including any costs of litigation, including but not limited to, attorneys' fees and any other costs and expenses), fines, or losses in connection with any threatened or actual claims, actions, demands, investigations, or suits, including, but not limited to, claims or suits by third parties, arising out of any of the following: (a) Buyer's negligent or willful acts, or those of its employees and/or agents, (b) such goods being repaired or altered by persons other than Seller (unless expressly authorized in writing by Seller), (c) in the event that Buyer modifies, or combines with any non-Seller goods, any of the goods purchased from Seller, and such modification or combination results in the actual or alleged infringement of any intellectual property rights of any third party, (d) from goods produced by Seller according to Buyer's specifications, (e) any violations of export control laws by Buyer, or (f) Buyer's breach of any provision in these T&Cs.

Confidentiality. "Confidential Information" means any of Seller's business information, specifications and all related writings, drawings, designs and similar works or any other information which is disclosed by Seller and labeled or marked as confidential, proprietary or its equivalent, or oral or visual information that is designated confidential, proprietary or its equivalent at the time of its disclosure. All Confidential Information shall be the exclusive property of Seller, and Seller retains all its right, title and interest. Buyer agrees to use Confidential Information for the exclusive purpose of performance under the Purchase Order and not to disclose or provide any Confidential Information to any third party and to take all necessary measures to prevent any such disclosure by its employees, agents, contractors or consultants. Upon request of Seller or completion of the Order, Buyer shall return all Confidential Information to Seller and provide certification of such return.

Tooling. Charges made for tools, dies, gauges, jigs, fixtures or equipment made or acquired by Seller in connection with the work do not convey title to or any proprietary interest in such tools. All such tools will remain the exclusive property of Seller.

Force Majeure. Seller shall not be liable for any failure to perform this agreement when such failure is due to circumstances beyond its control. Circumstances beyond the control of Seller shall be deemed to include, but shall not be limited to, acts of God, governmental action, accidents, labor trouble, and inability to obtain materials, equipment or transportation.

Waiver. No oral statements, recommendations or assistance given by a representative and/or distributor of Seller to Buyer or its representatives in connection with the use of the goods shall constitute a waiver by Seller of any of the provisions hereof, or affect Seller's liability herein.

Arbitration. Except for any action where the sole relief sought is an injunction, any controversy or claim arising out of or relating to these T&Cs, or the making, performance or interpretation thereof, including without limitation alleged fraudulent inducement thereof, shall be settled by binding arbitration in the city of Seller's choosing in the state of Seller's business address as shown on the Response, by one arbitrator in accordance with the Commercial Arbitration Rules of the American Arbitration Association. Judgment upon any arbitration award may be entered in any court having jurisdiction thereof.

Representation of Buyer. Buyer is duly organized, validly existing and in good standing under the laws of the state of its formation and has full corporate power and authority to own, operate or lease the properties and assets now owned, operated or leased by it and to carry on its business as currently conducted. Buyer is duly licensed or qualified to do business and is in good standing in each jurisdiction in which such licensing or qualification is necessary. The execution and delivery by Buyer of this Agreement, the performance by Buyer of its obligations hereunder and thereunder and the consummation by Buyer of the transactions contemplated

hereby have been duly authorized by all requisite corporate action on the part of Buyer, and this Agreement constitutes a legal, valid and binding obligation of Buyer enforceable against Buyer in accordance with its terms.

Risk of Loss. Commencing at the time of delivery, Buyer shall bear all risk of loss, damage, destruction, theft and condemnation to or of the Equipment from any cause whatsoever.

Events of Default. Each of the following events is an "Event of Default" under this Agreement: (a) if Buyer fails to pay when due any installment of the purchase price or any other amount under this Agreement; (b) if Buyer defaults in the observance or performance of any other term, covenant or condition of Buyer under this Agreement and Buyer shall fail to remedy such default within ten days after notice by Seller to Buyer of such default; (c) if Buyer's interest or any portion thereof in this Agreement devolve on or pass to any person, whether by operation of law or otherwise; (d) if Buyer: (i) does not, or is unable to, or admits in writing its inability to, pay its debts as they become due; (ii) commences or institutes any case, proceeding or other action seeking relief on its behalf as debtor, or to adjudicate it a bankrupt or insolvent, or seeking reorganization, arrangement, adjustment, winding up, liquidation, dissolution, composition or other relief with respect to it or its debts under any existing or future law of any jurisdiction, domestic or foreign, relating to bankruptcy, insolvency, reorganization or relief of debtors; (iii) commences or institutes any case, proceeding or other action seeking appointment of a receiver, trustee, custodian or other similar official for it or for all or any substantial part of its property; or (iv) makes a general assignment for the benefit of creditors; (e) if a receiver, trustee, custodian or other similar official is appointed for any substantial part of the assets of Buyer which appointment is not vacated or stayed within 30 days; (f) if Buyer sells, transfers or disposes of all or substantially all of its assets, or merges or consolidates with any other entity; or (g) a breach of any representation or warranty of Buyer.

Headings. The headings in this Agreement are for reference only and shall not affect the interpretation of this Agreement.

Entire Agreement. This Agreement, including any exhibits and schedules, constitutes the sole and entire agreement of the parties to this Agreement with respect to the subject matter contained herein and therein, and supersedes all prior and contemporaneous understandings, agreements, representations and warranties, both written and oral, with respect to such subject matter.

Amendment and Modification. No amendment to this Agreement is effective unless it is in writing and signed by each party to this Agreement.

Cumulative Remedies. All rights and remedies provided in this Agreement are cumulative and not exclusive, and the exercise by either party of any right or remedy does not preclude the exercise of any other rights or remedies that may now or subsequently be available at law, in equity, by statute, in any other agreement between the parties or otherwise.

Assignment. Buyer may not assign any of its rights under this Agreement without the prior written consent of Seller and provided that such assignment shall not relieve Buyer of its obligations under this Agreement, and Buyer shall remain primarily liable under this Agreement. Any purported assignment in violation of this Section is null and void.

Successors and Assigns. This Agreement is binding on and inures to the benefit of the parties to this Agreement and their respective successors and permitted assigns.

No Third-party Beneficiaries. This Agreement benefits solely the parties to this Agreement and their respective successors and permitted assigns and nothing in this Agreement, express or implied, confers on any third party any legal or equitable right, benefit or remedy of any nature whatsoever under or by reason of this Agreement.

Waiver of Jury Trial. Each party acknowledges and agrees that any controversy that may arise under this Agreement, including any exhibits attached to this Agreement, is likely to involve complicated and difficult issues and, therefore, each such party irrevocably and unconditionally waives any right it may have to a trial by jury in respect of any legal action arising out of or relating to this Agreement, including any exhibits attached to this Agreement, or the transactions contemplated hereby.

Drafting. No provision of this Agreement shall be interpreted for or against any party hereto on the basis that such party was the draftsman of such provision, and no presumption or burden of proof shall arise favoring or disfavoring any party by virtue of the authorship of any of the provisions of this Agreement.

Counterparts. This Agreement may be executed in counterparts, each of which is deemed an original, but all of which together is deemed to be one and the same agreement. A signed copy of this Agreement delivered by facsimile, e-mail or other means of electronic transmission is deemed to have the same legal effect as delivery of an original signed copy of this Agreement.

Miscellaneous. All provisions set forth herein regarding warranty, confidential information, indemnification, liability and limits thereon, and any other provisions that survive by their terms will survive any termination or expiration of any Response delivered in connection herewith pursuant to the terms of such sections. In the event that any provision of these terms is held to be illegal, invalid or unenforceable under any present or future law, rule or regulation, such provision shall be deemed stricken from these T&Cs, but such illegality, invalidity or unenforceability shall not invalidate any of the other provisions of these T&Cs. Buyer represents and covenants that it has, and will continue to, comply with all laws and regulations related to the goods sold hereunder, including, but not limited to, export control laws. This sale transaction shall be governed, construed and enforced solely by the laws of the State of Seller's business address as shown on the Response. The United Nations Convention on the International Sale of Goods shall not be applicable to these T & C. The relationship of Buyer and Seller is that of independent contractors.

California Customers. Midland Industries does not guarantee that all products meet California environmental laws of Proposition 65. It is the sole responsibility and liability of the Midland distributor to order products for use in California that comply with California laws.

Threading Information

Abbreviation	System Name
BSPP	**B**ritish **S**tandard **P**ipe **P**arallel
BSPT	**B**ritish **S**tandard **P**ipe **T**aper
CHT	American Standard Fire Hose Thread (1" National Hose Thread is **C**hemical **H**ose **T**hread, also known as Booster Hose Thread)
GHT	**G**arden **H**ose **T**hread (FGH - Female Garden Hose) (MGH - Male Garden Hose)
IPS	**I**ron **P**ipe **S**traight Thread
IPT	**I**ron **P**ipe **T**hread
JIC	**J**oint **I**ndustrial **C**ommittee
NH or NST	American Standard Fire Hose Coupling Thread (**N**ational **H**ose thread also known as **N**ational **S**tandard **T**hread)
NPT	American Standard Taper Pipe Thread (**N**ational **P**ipe **T**apered)
NPTF	American Standard Taper Pipe Fuel Dryseal Thread (**N**ational **P**ipe **T**a-pered)(Dryseal)
NPSH	American Standard Straight Pipe for Hose Couplings (**N**ational **P**ipe **S**traight **H**ose)
NPSM	American Standard Straight Mechanical Joints (**N**ational **P**ipe **S**traight **M**echanical)

Association Abbreviations

SAE International (**SAE**) is a professional organization for mobility engineering professionals in the aerospace, automotive, and commercial vehicle industries. The Society is a standards development organization for the engineering of powered vehicles of all kinds, including cars, trucks, boats, aircraft, and others.

AGA - **A**merican **G**as **A**ssociation
JIC - **J**oint **I**ndustrial **C**ommittee
ASA - **A**merican **S**tatistical **A**ssociation
ASME - **A**merican **S**ociety of **M**echanical **E**ngineers

For more detailed information, suggested sealing methods, thread compatability, etc...
visit **www.midlandindustries.com** and click on "**Knowledge Bank**"

Need help identifying a fitting?

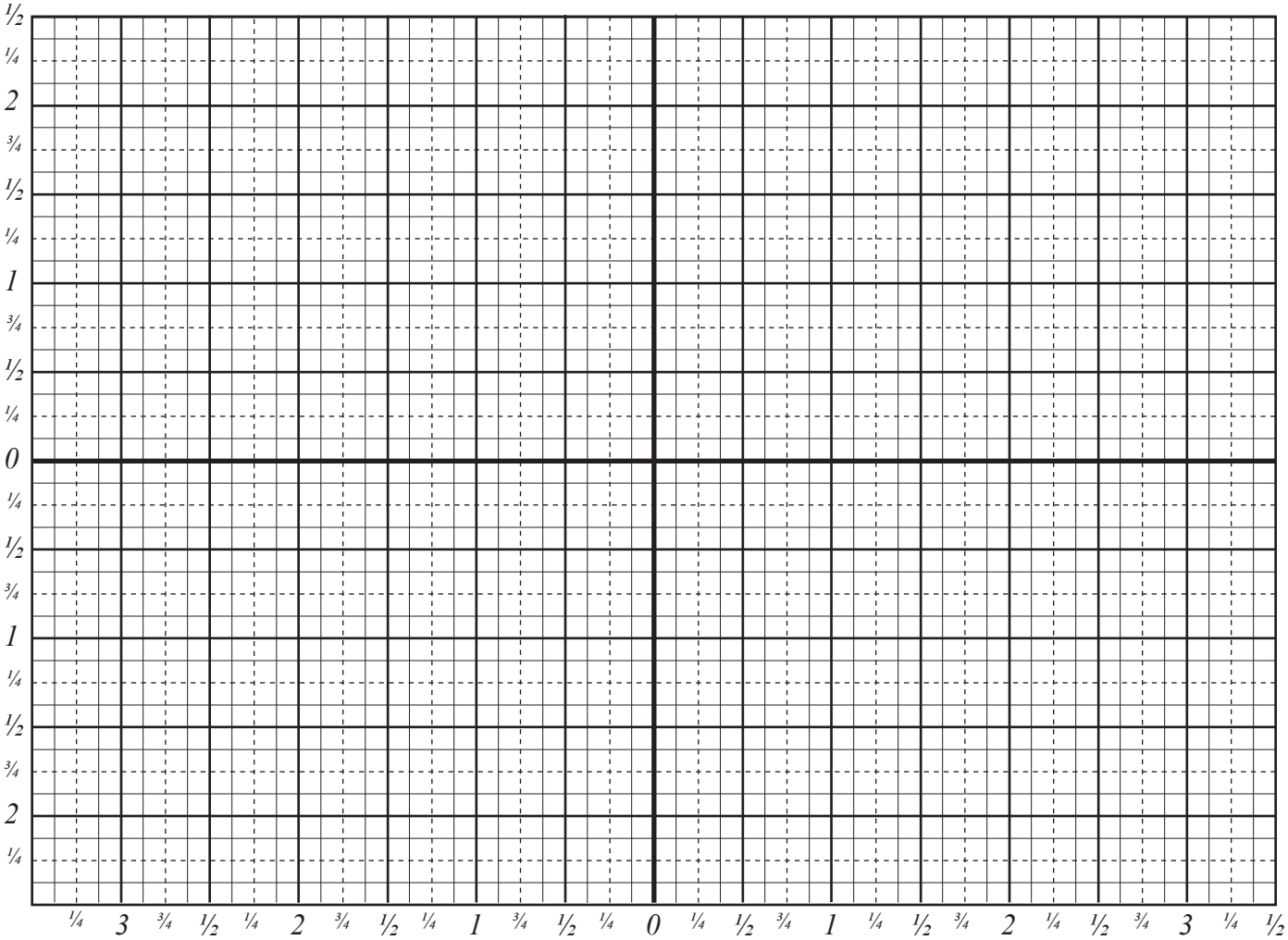
Let our engineering team assist you!

Step 1 - Determine material. (Brass, Steel, Stainless, etc...)

Step 2 - Check Threads. (See Intro page 20 for threading types)

Step 3 - Measure Outer Diameter(O.D.) , Inner Diameter (I.D.), Length and any other relevant measurement.

Step 4 - If you have the fitting with you, place it on the grid below and take a photo. If the fitting cannot be placed on the grid please use any photo available.



Step 5- Email photo of fitting along with information collected to :

engineer@midlandindustries.com

Please allow up to 1 business day for a response. If the request is urgent please call 1-800-821-5725

PLASTIC TUBING
INFORMATION

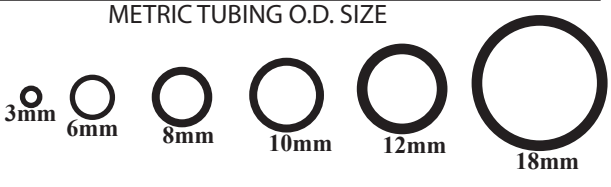
CORROSION RESISTANCE VALUES
for Plastic Tubing
Ratings based on tests at 70^{0}F and should not be exposed to higher temperature without testing

F-5000 Poly Vinyl Chloride
U-2000 Polyurethane
E-1000 Low Density Polyethylene
N-6000 Nylon
P-1100 Polypropylene
D-4000 EVA
T-7000 Teflon
U-8000 Special Plasticizers PVC

G-Good
L-Limited
P-Poor
N-Not Tested

FUELS:	F	U	E	N	P	D	T	U
Butane (1)	G	G	L	G	L	G	G	N
Diesel Fuel	L	G	L	G	L	P	N	G
Gasoline (regular)	L	G	P	G	L	N	G	G
Kerosene	L	G	P	G	G	P	G	G
Methane (nat. gas)(1)	G	G	L	G	G	N	N	N
Propane (1)	G	G	L	G	L	N	N	N
OTHERS:								
Acetylene	N	G	G	G	G	N	N	N
Ammonia gas	P	G	G	G	G	G	N	N
Ammonium salts	G	G	G	G	G	G	N	N
Amyl acetate	P	P	L	G	P	P	G	N
Aniline	P	P	L	L	G	P	G	N
Animal oils	G	G	P	G	G	N	G	G
Bleach, 7%	G	P	G	L	L	N	N	G
Bromine	L	G	P	P	P	P	G	N
Butandiol	G	G	G	G	G	N	N	N
Calcium salts incl. Chloride	G	G	G	G	G	N	G	G
Chlorine gas, dry	G	G	P	P	P	P	N	N
Dibutyl phthalate	N	P	L	G	L	P	N	G
Glucose	G	G	G	G	G	G	G	G
Glycerine	G	G	G	G	G	G	N	G
Hydrogen peroxide 10%	G	G	G	G	G	G	G	G
Hydrogen peroxide 25%	L	G	G	P	G	G	G	G
Hydrogen sulfide	G	P	G	L	G	N	G	N
Isocyanates	N	G	G	G	N	P	N	N
Lead salts (3)	G	G	G	G	G	N	N	N
Magnesium salts	G	G	G	G	G	N	G	N
Mercury	G	G	G	G	G	G	N	N
Milk	G	G	G	G	G	G	N	G
Mineral Oil	G	G	L	G	L	P	G	G
Nitrous Oxide (1)	G	G	L	G	G	N	N	N
Oxygen (1)	G	G	G	G	G	G	G	G
Ozone, ambient	G	G	L	G	L	N	N	G
Paint, oil base	L	G	L	G	G	N	N	G
Polyglycols	G	G	G	G	G	N	N	N
Potassium salts	G	G	G	G	G	N	G	N
Pydraul	P	P	P	G	N	N	N	N
Pyridine	P	L	G	L	G	N	G	N
Salt Water	G	G	G	G	G	G	G	G
Silver Nitrate	G	G	G	G	G	G	G	N
Skydrol	P	P	P	G	N	N	N	N
Soap solution (conc.)	G	G	L	G	G	N	G	G
Sodium salts	G	G	G	G	G	N	G	G
Sodium thiosulphate	G	G	G	G	G	N	G	G
Styrene	P	G	P	G	N	N	N	G
Trisodium phosphate	G	G	N	G	G	G	N	G
Ucon oil	G	G	G	G	N	N	N	N
Urea	G	G	G	G	G	N	G	G
Vegetable oils (1)	G	G	G	G	G	P	N	G
Water at 730F	G	G	G	G	G	G	G	G
Water at 1400F	L	G	G	G	G	G	G	G
Water at 1700F	P	L	N	L	G	P	N	G
Whiskey, wine (1)	N	G	G	G	G	G	N	G
Zinc Chloride	G	G	G	G	G	G	G	N

ACIDS & BASES	F	U	E	N	P	D	T
Acetic, 50%	G	P	P	L	G	P	G
Boric	G	G	G	G	G	G	G
Carbolic (phenol)	P	P	G	P	G	P	N
Fatty	G	G	P	G	G	N	G
Formic, 90%	G	P	G	P	G	G	G
Hydrochloric, 10%	G	G	G	L	G	G	G
Hydrochloric, 25%	G	L	G	P	G	L	G
Hydrochloric, 50%	G	L	G	P	G	L	G
Hydrocyanic, 50%	L	P	G	P	G	G	G
Maleic	G	P	G	G	G	N	N
Nitric, 10%	G	P	G	L	G	L	G
Nitric, 30%	G	P	G	P	L	L	G
Oleic	L	G	L	G	G	P	N
Phosphoric, 25%	G	L	G	G	G	G	N
Sulfuric, 30%	G	L	G	L	G	L	G
Sulfuric, 70%	L	P	P	P	G	P	G
Sulfuric, 98%	P	P	P	P	G	P	G
Sulfurous, 30%	G	P	G	L	G	N	G
Tannic	G	P	G	G	G	N	G
Ammonium hydroxide, 25%	P	G	L	G	G	G	N
Potassium hydroxide, 25%	L	G	G	G	G	G	G
Sodium hydroxide, 50%	G	G	G	G	G	L	G
SOLVENTS:							
Acetone	P	P	G	G	L	P	G
Benzene	P	L	P	G	P	P	G
Carbon tetrachloride	P	L	L	L	P	P	G
Chloroform	P	P	P	L	P	P	G
Cyclohexanone	P	P	P	G	L	P	G
Dimethylformamide	P	P	L	N	G	N	N
Dioxane	N	N	P	G	L	N	N
Ethyl acetate	P	L	G	G	L	P	G
Ethyl alcohol (1)	L	G	G	L	G	G	G
Ethyl ether	L	L	G	G	L	P	N
Ethylene glycol	G	G	G	G	G	G	N
Formaldehyde	G	G	G	G	G	L	N
Freon - 12'	L	L	G	G	L	N	G
Methyl alcohol	L	G	G	L	G	N	N
Methylene chloride	P	P	L	G	L	P	N
Methyl ethyl ketone	P	P	G	G	L	P	N
Naphthas (2)	P	G	P	G	L	P	G
Tolulene	P	G	P	G	L	P	N
Triclorethylene	P	P	P	L	P	P	G
Turpentine	G	G	P	G	L	P	G
Xylene	P	G	P	G	L	P	N
HYDRAULIC FLUIDS:							
Diester base grease	N	G	P	G	L	P	N
Petroleum base grease	G	G	L	G	L	P	N
Phosphate ester	L	P	P	G	G	N	N
Polyol ester	P	N	P	G	G	N	N
Water-glycol	G	G	G	G	G	N	N
SAE motor oils	G	G	G	G	G	N	N
Machine oil	G	G	L	G	L	N	N
MIL-L-7808 H	G	G	L	G	G	N	N
Brake Fluid	N	N	N	N	N	N	N



Conversion chart

Fraction / Decimal / mm

Fraction	Decimal	mm
1/64	0.0156	0.3969
1/32	0.0313	0.7938
3/64	0.0469	1.1906
1/16	0.0625	1.5875
5/64	0.0781	1.9844
3/32	0.0938	2.3813
7/64	0.1094	2.7781
1/8	**0.125**	**3.175**
9/64	0.1406	3.5719
5/32	0.1563	3.9688
11/64	0.1719	4.3656
3/16	0.1875	4.7625
13/64	0.2031	5.1594
7/32	0.2188	5.5563
15/64	0.2344	5.9531
1/4	**0.25**	**6.35**
17/64	0.2656	6.7469
9/32	0.2813	7.1438
19/64	0.2969	7.5406
5/16	0.3125	7.9375
21/64	0.3281	8.3344
11/32	0.3438	8.7313
23/64	0.3594	9.1281
3/8	**0.375**	**9.525**
25/64	0.3906	9.9219
13/32	0.4063	10.3188
27/64	0.4219	10.7156
7/16	0.4375	11.1125
29/64	0.4531	11.5094
15/32	0.4688	11.9063
31/64	0.4844	12.3031
1/2	**0.5**	**12.7**

Fraction	Decimal	mm
33/64	0.5156	13.0969
17/32	0.5313	13.4938
35/64	0.5469	13.8906
9/16	0.5625	14.2875
37/64	0.5781	14.6844
19/32	0.5938	15.0813
39/64	0.6094	15.4781
5/8	**0.625**	**15.875**
41/64	0.6406	16.2719
21/32	0.6563	16.6688
43/64	0.6719	17.0656
11/16	0.6875	17.4625
45/64	0.7031	17.8594
23/32	0.7188	18.2563
47/64	0.7344	18.6531
3/4	**0.75**	**19.05**
49/64	0.7656	19.4469
25/32	0.7813	19.8438
51/64	0.7969	20.2406
13/16	0.8125	20.6375
53/64	0.8281	21.0344
27/32	0.8438	21.4313
55/64	0.8594	21.8281
7/8	**0.875**	**22.225**
57/64	0.8906	22.6219
29/32	0.9063	23.0188
59/64	0.9219	23.4156
15/16	0.9375	23.8125
61/64	0.9531	24.2094
31/32	0.9688	24.6063
63/64	0.9844	25.0031
1	**1**	**25.4**

Industrial Interchange 1/4 | Parker Interchange (Tru-Flate) 1/4 | Aro 210 Interchange 1/4 | ST Series/High Flow 1/4 , 3/8 | Lincoln Interchange 1/4 | Industrial Interchange 3/8

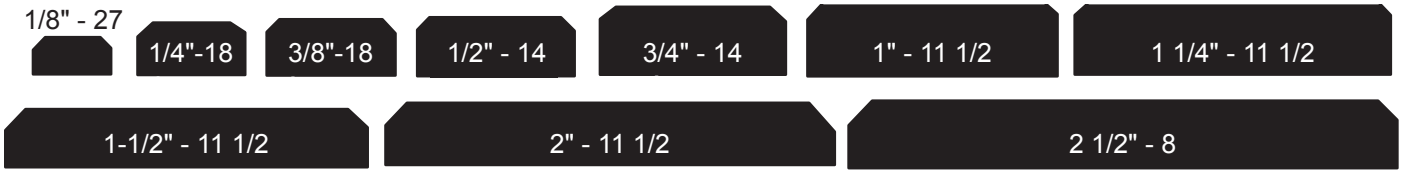
Midland	Parker	Tomco	Amflo	Breco	Milton	Dixon	Hansen	Foster	
28560	UC304F-4	UC2-16		C60		745			
28579	UC304M-4	UC2-15		C61		746			
28589	UC304M-6	UC2-20		C61-03					
28551	B22A	M180	C20-01		B2CM1-B		DC2101	900	2903
28552	B22	M181	C21	B2CM2-B	716M	DC21	1100	3103	
28553	B22E	M182	C21-03		B2CM3-B	719M	DC2103	1300	3303
28539	B23A	M183	C20-21		B2CF1-B		DC2021	800	2803
28540	B23	M184	C20	B2CF2-B	715M	DC20	1000	3003	
28541	B23E	M185	C20-23		B2CF3-B	718M	DC2023	1200	3203
28562	B20-3B	M186	C20-42		B2CS2-B	717M	DC2042		
28564	B20-5B	M187		B2CS3-B		717-6M	DC2044	1700	3703
28565	B20-3BP	M189	C20-42L		B2CPS2-B		1717-4M	DC2042L	1600P
1513									
28566	B20-5BP	M190	C20-44L		B2CPS3-B		1717-6M	DC2044L	1700P
1713									
28545	H0C	1802	CP21-01		BB2M1-S		726	DCP2101	12
28546	H2C	1804	CP21	BB2M2-S	727	DCP21	10	12-3	
28547	H2C-E	1806	CP21-03		BB2M3-S		733	DCP2103	14
28533	H1C	1803	CP20-21		BB2F1-S		729	DCP2021	13
28534	H3C	1805	CP20	BB2F2-S	728	DCP20	11	13-3	
28535	H3C-E	1807	CP20-23		BB2F3-S		732	DCP2023	15
28557	H8C	1824	CP21-42		BB2S2-S		736	DCP2142	16
28559	H9C	1826	CP21-44		BB2S3-S		736-6	DCP2144	17
28558	H8CP	1850	CP21-42L		BB2PS2-S		1736-4	DCP2142L	15-3
28561	H9CP	1860	CP21-44L		BB29S3-S		1736-6	DCP2144L	17-3
28515	B12A	A2180	C1-01	B2JM1-B		DC101	B21QS-12M	TF2903	71-3
28516	B12	A2181	C1	B2JM2-B	786	DC1	B21QS-25M	TF3103	
28517	B12E	A2182	C1-03	B2JM3-B	789	DC103	B21QS-37M	TF3303	
28506	B13A	A2183	C2-21	B2JF1-B		DC221	B21QS-12F	TF2803	
28507	B13	A2184	C2	B2JF2-B	785	DC2	B21QS-25F	TF3003	
28508	B13E	A2185	C2-23	B2JF3-B	788	DC223	B21QS-37F	TF3203	
28528	B10-3B	A2186	C2-42	B2JS2-B		786-4	DC242	B21QS-25H	TF3603
28530	B10-5B	A2188	C2-44	B2JS3-B		786-6	DC244	B21QS-37H	TF3703
28531	B10-3BP	A2189	C2-42L		B2JPS2-B		1786-4	DC242L	B21QS-25HP
TF1513									
28532	B10-5BP	A2190	C2-44L		B2JPS3-B		1786-6	DC244L	B21QS-37HP
TF1713									
28509	0C	2152	CP1-01		BJ2M1-S			DCP101	TF12
28510	2C	2154	CP1	BJ2M2-S	783	DCP1	21AP-25M	TF10	
28511	2C-E	2156	CP1-03		BJ2M3-S			DCP103	21AP-37M
28500	1C	2153	CP2-21		BJ2F1-S			DCP221	TF13
28501	3C	2155	CP2	BJ2F2-S	784	DCP2	21AP-25F	TF11	
28502	3C-E		CP2-23		BJ2F3-S			DCP223	21AP-37F
28518	8C	2164	CP1-42		BJ2S2-S		783-4	DCP142	21AP-25H
28520	9C	2166	CP1-44		BJ2S3-S		783-6	DCP144	21AP-37H
28521	8CP	2150	CP1-42L		BJ2PS2-S		1783-4	DCP142L	TF51

Thread Chart

DASH SIZE	2		3	4	5	6	7	8	10	12	14	16	20	24	32	40	48
O.D. TUBING SIZE	1/8	5/32	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	2	2-1/2	3
STANDARD PIPE SIZE N.P.T.F. (DRYSEAL)*	1/8-27			1/4-18		3/8-18		1/2-14		3/4-14		1-11 1/2	1 1/4-11 1/2	1 1/2-11 1/2	2-11 1/2	2 1/2 -8	3-8
S.A.E. 45° FLARE	5/16-24		3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	1 1/16-14	1 1/4-12	1 3/8-12					
INVERTED FLARE	5/16-24		3/8-24	7/16-24	1/2-20	5/8-18	11/16-18	3/4-18	7/8-18	1 1/16-16							
J.I.C. 37° FLARE	5/16-24		3/8-24	7/16-20	1/2-20	9/16-18		3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 1/2-12	3-12	3 1/2-12
COMPRESSION	5/16-24	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1 -18	1 1/8-18						
FLARELESS COMPRESSION (PLASTIC TUBE)	5/16-24		3/8-24	3/8-24	7/16-24	1/2-24		11/16-20									
AIR BRAKE - PLASTIC TUBE				7/16-24		17/32-24		11/16-20	13/16-18	1 -18							
AIR BRAKE - COPPER TUBE				7/16-24	1/2-24	17/32-24		11/16-20	13/16-18	1-18							
DOUBLE COMPRESSION	5/16-24		3/8-24	7/16-24	1/2-20	9/16-20		11/16-16									
STEEL COMPRESSION (HIGH PRESSURE)	5/16-24		3/8-24	7/16-20	1/2-20	9/16-18		3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 1/2-12		
S.A.E. 0-RING	5/16-24		3/8-24	7/16-20	1/2-20	9/16-18		3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 1/2-12		
INTERNAL 0-RING				1/2-20	9/16-18	5/8-18		7/8-14	1 -14	1 1/8-12	1 1/2-12	1 3/4-12	2 -12				
NPSM SWIVEL THREAD	1/8-27			1/4-18		3/8-18		1/2-14		3/4-14		1-11 1/2	1 1/4 -11 1/2	1 1/2 - 11 1/2	2- 11 1/2		
FLAT FACE THREAD				9/16-18		11/16-16		13/16-16	1-14	1 3/16-12		1 7/16-12	1 11/16-12	2-12			
BRITISH THREAD BSPP/BSPT	1/8-28			1/4-19		3/8-19		1/2-14		3/4-14		1-11	1 1/4-11	1 1/2-11	2-11		
METRIC THREAD	10 M10X1.0		12 M12x1.5	14 M14x1.5	16 M16x1.5	18 M18x1.5	20 M20x1.5	22 M22x1.5	24 M24x1.5	26 M26x1.5	27 M27x2.0	30 M30x2.0	33 M33x2.0	36 M36x2.0	42 M42x2.0	48 M48x2.0	
CODE 61 FLANGE HEAD O.D								1.19	1.335	1.50		1.75	2.00	2.38	2.81	3.31	4.00
CODE 62 FLANGE HEAD O.D								1.25		1.62		1.88	2.12	2.50	3.12		

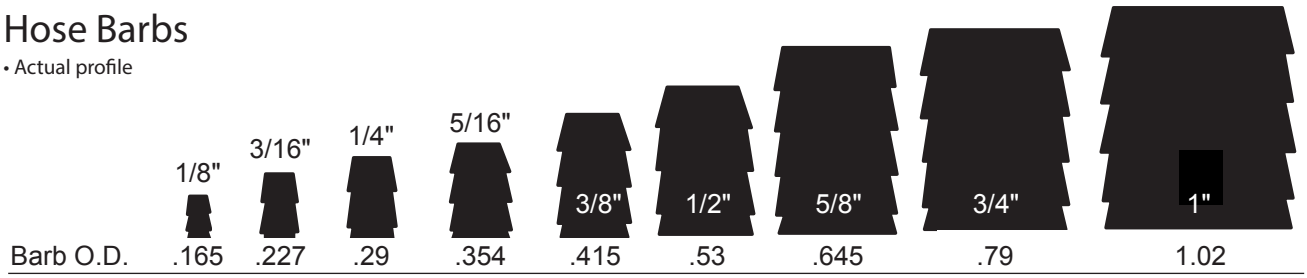
THREAD PROFILES
INFORMATION

Pipe Threads



Hose Barbs

• Actual profile



Push-On Barbs

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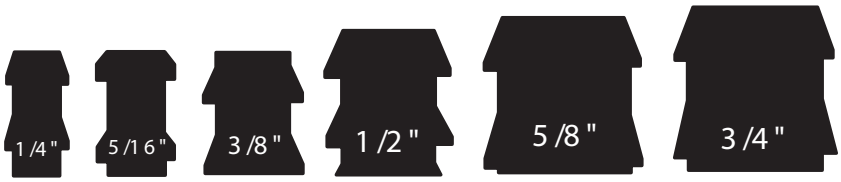
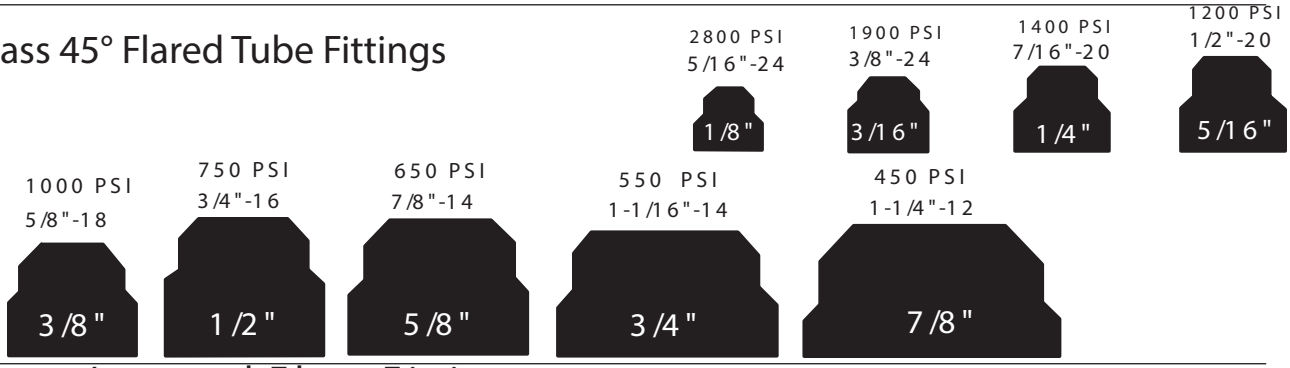


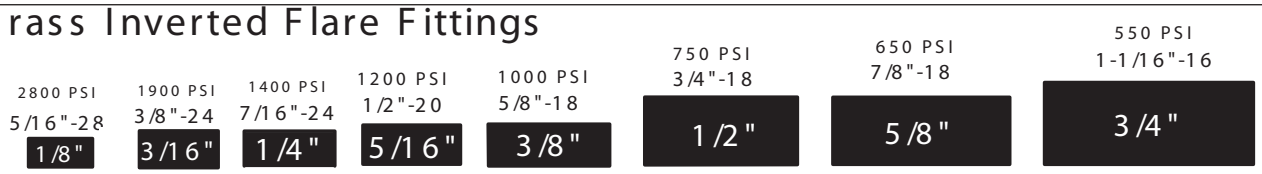
Garden Hose Fittings

Male Garden Hose Threads are 3/4" with O.D. of 1.0625 and 11-1/2 threads per inch

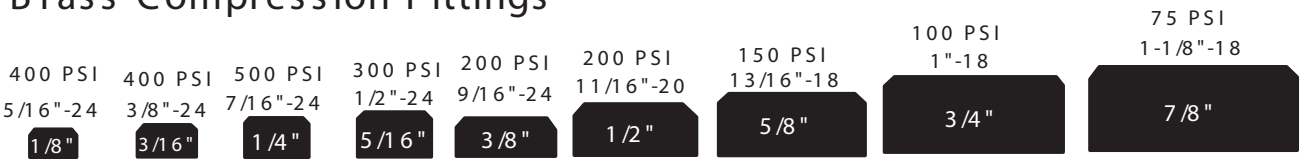
Brass 45° Flared Tube Fittings



Brass Inverted Flare Fittings



Brass Compression Fittings



Tubing O.D. Size

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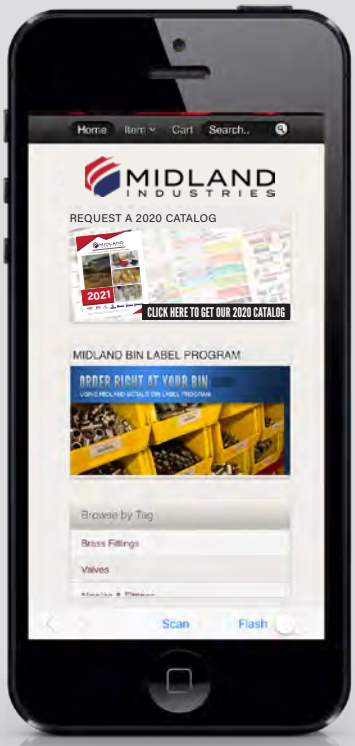

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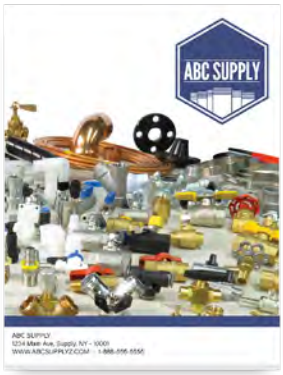

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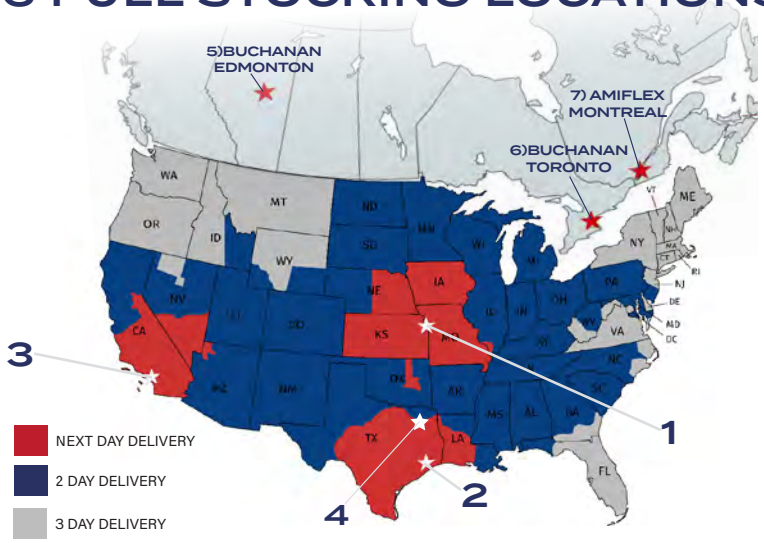

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