## **Liquidtight Connectors and Hubs for Liquidtight Flexible Metal Conduit**

General Information and special features.

#### **Applications**

- Seal out oil, water, dirt, dust and fumes wherever liquidtight flexible metal conduit is used.
- Typical applications include food processors, beverage plants, chemical plants, dairies, machine shops, plastic fabricators, petroleum machinery, and gantry cranes.

#### **ST and STB Series**

For connections to threaded hubs. Insulated throat on STB protects conductors. Connectors are available with grounding lugs. Straight sizes 3/8" thru 5"; 45° and 90°, 3/8" thru 4". Straight and 90° styles in sizes 3/8" thru 2" also available with certain metric thread sizes. See page I-49.

#### STN Space-Sa ving Connectors for Enclosures

Appleton STN Series makes liquidtight connections to sheet metal enclosures. Space-saving, self-locking gasketed wedge forms a perfect seal and allows more wiring room. Straight sizes 3/8" thru 4": 90° sizes 3/8" thru 1".

#### **STG Neoprene Sealing Gasket Assembly**

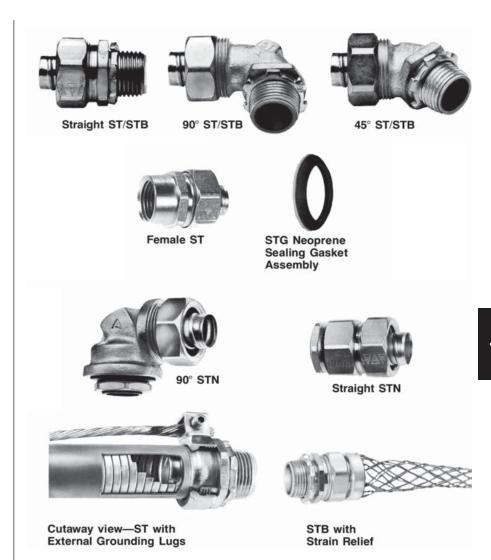
Steel backed, neoprene gasket assembly assures a liquidtight connection to a rough metal surface such as knockouts in steel junction boxes. Sizes 1/2" thru 4" feature bonded gasket/retainer assembly. 1/4 and 3/8 available in thermoplastic material.

#### **Female Steel ST Connectors**

For liquidtight connections to threaded rigid metal conduit. Sizes 3/8" thru 1".

#### Fastures

• Extra-long ferrule resists pullouts. All Appleton liquidtight fittings feature a one-piece, deep-grip ferrule design that simplifies installation and prevents conduit sleeving. Its extra length and sharply defined threads provide greater surface contact with the conduit for excellent grounding continuity, greater pull-out strength (4X UL requirements)...and added protection against excessive external conduit flexing and vibration. It virtually eliminates the need for an external strain relief in many applications.



• External grounding lugs available on all Appleton liquidtight connectors. Where National Electrical Code permits an external equipment bonding jumper, [NEC sections 250-96(b), 501-16(b) and 502-16(b)], Appleton ST and STB connectors are offered with an integral bonded steel zinc electroplated lug. Cut-away view shows extended ferrule design for maximum grounding effectiveness. Grounding lugs also available in STN, STL and Female ST Series. Consult factory.

• Wire mesh strain relief available on all STB, STN, and female ST connectors. Woven stainless steel mesh sleeve alleviates flexing stress at liquidtight connection.

# Liquidtight "ST-F" Female Connectors and "STG" Sealing Gaskets for Liquidtight Flexible Metal Conduit Connectors

#### **Applications**

#### • Female ST Connectors

For use with liquidtight flexible metal conduit when making connection to threaded rigid conduit and IMC.

#### • STG Sealing Gaskets

Gaskets provide a positive seal between shoulder of male hub connector and sheet metal enclosure.

#### Features

- All ST Connectors have a unique long ferrule with more pronounced threads that provide over four times UL pull-out requirements. The ferrule also provides maximum surface contact for better sealing and a continuous, permanent, positive metalto-metal ground.
- Liquidtight/raintight/oiltight.
- Suitable for wet locations.
- Full, machined tapered threads (NPT).
- Female ST Connectors have compact design with small turning radius.
- STG Sealing Gaskets in sizes1/4" and 3/8" are one piece elastomeric gaskets. Sizes 1/2" thru 6" have unique bonded gasket/retaining-ring assembly for easy installation.

#### **Standard Materials**

- ST Connectors: 3/8" to 1"—steel with steel ferrule; 1-1/4" to 4"—malleable iron with aluminum ferrule.
- STG Sealing Gaskets: 1/4" and 3/8"—elastomericmaterial; 1/2" to 6"—steel retaining ring with bonded neoprene gasket.

#### **Standard Finishes**

- Steel—zinc electroplate.
- Malleable iron— Zinc electroplate, dichromate and epoxy powder coat.

#### Size Range:

- ST Female Connectors: 3/8" thru 4" conduit size.
- STG Sealing Gaskets: 1/4" thru 6" trade (hub) size.



Female ST-F Connector Steel 3/8" - 1" Malleable Iron 1-1/4" - 4"



### Compliances

- UL Standard 514B.
- CSA Standard C22.2 No. 18.
- Suitable for hazardous locations

Class I, Div. 2

Class II, Div. 1 and 2

Class III, Div. 1 and 2

NEC 501-4(b), 502-4(a)(2), 503-3(a)

 STG Sealing Gaskets are UL listed raintight when used with raintight enclosures and Appleton Liquidtight and Cord Grip fittings.

Catalog Number	Size (In.)	Catalog Number	Size (In.)
"ST" Connectors w	rith Female		
Threaded Hubs*		Sealing Gasket - Not for use with STN	
ST-38F	3/8 Flex., 1/2 Hub	STG-25	1/4
ST-50F	1/2	STG-38	3/8
ST-75F	3/4	STG-50	1/2
ST-100F	1	STG-75	3/4
ST-125F	1-1/4	STG-100	1
ST-150F	1-1/2	STG-125	1-1/4
ST-200F	2	STG-150	1-1/2
ST-250F	2-1/2	STG-200	2
ST-300F	3	STG-250	2-1/2
ST-400F	4	STG-300	3
		STG-350	3-1/2
		STG-400	4
		STG-500	5
		STG-600	6

<sup>\*</sup> Grounding lugs can be provided, consult factory. For replacement grounding ferrule, see Catalog Sect. ST. For dimensions, see page I-48.

