

SECTION 3

QUALITY PIPE UNIONS

Throughout the entire manufacturing process of WARD unions, special emphasis is placed upon the control and accuracy of each operation.

WARD unions are made from closely grained, high tensile iron and are produced under expert laboratory supervision. Modern methods of foundry practice and carefully supervised molding are combined to produce castings that are smooth and clean in every respect and free from imperfection.

WARD unions are manufactured in strict accordance with the requirements for threaded pipe unions standard, developed by American Society of Mechanical Engineers (ASME) and published as an American National Standard. Each opening is chamfered permitting easy assembly. WARD unions make up easily and pull tight for a sealed assembly.

Continuous and careful inspection by trained employees during and after each operation produces quality products which will give satisfaction to the user.



Temp.F	PSI		
	Class 150	Class 250	Class 300
-20 to 150	300	500	600
200	265	455	550
250	225	405	505
300	185	460	460
350	150	315	415
400	110	270	370
450	75	225	325
500	*	180	280
550	*	130	230

Material: ASTM A197

Dimensions: ASME B16.39
ANSI/ASME B1.20.1

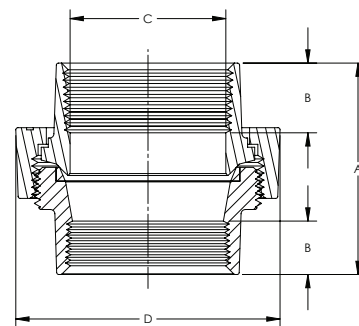
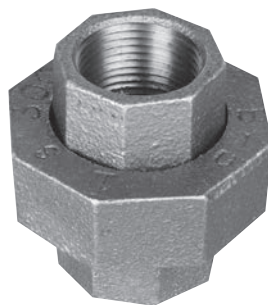
Pressure Ratings: ASME B16.39

Coatings: ASTM A153,
ASTM B633

Additional Specifications: UL, ULC and FM where applicable

WARD UNION BRASS TO IRON SEAT CLASS 150

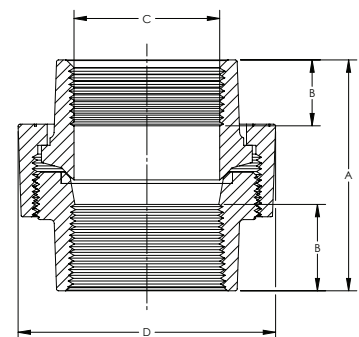
NPS	Overall Length A (min)	Length of Threads B (min)	Thru Hole C (min)	Width of Nut D (min)
1/8	1.26	0.30	0.21	0.93
1/4	1.44	0.32	0.36	1.10
3/8	1.61	0.36	0.52	1.26
1/2	1.72	0.43	0.61	1.45
3/4	1.94	0.50	0.80	1.71
3/4 X 1/2	1.94	0.50	0.80	1.71
1	2.06	0.58	1.00	2.07
1 1/4	2.26	0.67	1.31	2.50
1 1/2	2.41	0.70	1.55	2.82
2	2.75	0.75	2.03	3.41
2 1/2	3.22	0.92	2.38	4.12
3	3.50	0.98	3.00	4.75
*4	3.85	1.08	4.03	6.00



*UL Standards not applicable to 4" size union

WARD UNION BRASS TO IRON SEAT CLASS 250

NPS	Overall Length A (min)	Length of Threads B (min)	Thru Hole C (min)	Width of Nut D (min)
1/8	1.26	0.30	0.21	0.93
1/4	1.55	0.43	0.30	1.11
3/8	1.71	0.47	0.42	1.26
1/2	1.18	0.57	0.54	1.45
3/4	2.07	0.64	0.74	1.71
1	2.31	0.75	0.95	2.07
1 1/4	2.62	0.84	1.27	2.57
1 1/2	2.78	0.87	1.50	2.89
2	3.31	1.00	1.93	3.48
2 1/2	3.52	1.17	2.32	4.15
3	3.84	1.23	2.90	4.69
*4	4.39	1.33	3.82	6.47



*UL Standards not applicable to 4" size union

WARD UNION BRASS TO IRON SEAT CLASS 300

NPS	Overall Length A (min)	Length of Threads B (min)	Thru Hole C (min)	Width of Nut D (min)
1/8	1.26	0.30	0.21	1.26
1/4	1.55	0.43	0.30	1.55
3/8	1.71	0.47	0.42	1.71
1/2	1.81	0.57	0.54	1.81
3/4	2.12	0.64	0.74	2.12
1	2.31	0.75	0.95	2.31
1 1/4	2.66	0.84	1.27	2.66
1 1/2	2.85	0.87	1.50	2.85
2	2.23	1.00	1.93	3.23
2 1/2	3.33	1.17	2.320	3.33
3	4.09	1.23	2.90	4.09
4	—	—	—	—

