



MALLEABLE IRON FITTINGS



Class 300 (XS/XH)

	Size						Center to End						Unit Weight					
							A		B		C		Black		Galv.			
	NPS	DN	NPS	DN	NPS	DN	in	mm	in	mm	in	mm	lbs	kg	lbs	kg		
	3/8	10	3/8	10	1/4	8	1	25	1	25	1	25	0.37	0.17	–	–		
	1/2	15	1/2	15	1/4	8	1 1/16	27	1 1/16	27	1 1/8	29	0.48	0.22	–	–		
					3/8	10	1 3/16	30	1 3/16	30	1 3/16	30	0.61	0.28	–	–		
	3/4	20	1/2	15	3/4	20	1 3/8	35	1 3/8	35	1 5/16	33	0.80	0.36	–	–		
					1/2	15	1 5/16	33	1 1/4	32	1 3/8	35	0.78	0.35	–	–		
			3/4	20	3/4	20	1 7/16	37	1 3/8	35	1 7/16	37	0.93	0.42	–	–		
					1/4	8	1 3/16	30	1 3/16	30	1 1/4	32	0.76	0.34	–	–		
	1	25	3/4	20	3/8	10	1 1/4	32	1 1/4	32	1 5/16	33	0.80	0.36	–	–		
					1/2	15	1 5/16	33	1 5/16	33	1 3/8	35	0.90	0.41	0.9	0.41		
			1	25	1/2	15	1	25	1 5/8	41	1 1/2	38	1 5/8	41	1.36	0.62	–	–
					3/4	20	3/4	20	1 1/2	38	1 7/16	37	1 9/16	40	1.27	0.58	–	–
			1	25	1	25	1	25	1 5/8	41	1 9/16	40	1 5/8	41	1.38	0.63	–	–
					1/4	8	1 1/4	32	1 1/4	32	1 3/8	35	1.09	0.49	–	–		
	1 1/4	32	1 1/4	32	1/2	15	1 7/16	37	1 7/16	37	1 1/2	38	1.26	0.57	1.26	0.57		
					3/4	20	1 1/2	38	1 1/2	38	1 9/16	40	1.33	0.60	1.33	0.60		
					1	25	1 1/2	38	1 1/2	38	1 9/16	40	1.33	0.60	1.33	0.60		
	1 1/2	40	1 1/2	40	1	25	1 3/4	44	1 5/8	41	1 13/16	47	1.92	0.87	–	–		
					1/2	15	1 1/2	38	1 1/2	38	1 11/16	43	1.70	0.77	1.70	0.77		
					3/4	20	1 5/8	41	1 5/8	41	1 3/4	44	1.90	0.86	1.90	0.86		
	1 1/2	40	1 1/2	40	1	25	1 3/4	44	1 3/4	44	1 13/16	47	2.10	0.95	2.10	0.95		
					1/2	15	1 5/8	41	1 5/8	41	1 13/16	47	2.27	1.03	2.27	1.03		
					3/4	20	1 11/16	43	1 11/16	43	1 7/8	48	2.46	1.12	2.46	1.12		
					1	25	1 13/16	47	1 13/16	47	2	51	2.60	1.18	2.60	1.18		
	2	50	2	50	1 1/4	32	2	51	2	51	2 1/16	52	3.05	1.38	3.05	1.38		
1 1/2					40	2	50	2 1/2	64	2 3/8	60	2 1/2	64	4.50	2.04	–	–	
1/2					15	1 3/4	44	1 3/4	44	2 1/16	52	3.35	1.52	3.35	1.52			
3/4					20	1 13/16	47	1 13/16	47	2 1/8	54	3.56	1.61	3.56	1.61			
1					25	2	51	2	51	2 1/4	57	3.70	1.68	3.70	1.68			
2 1/2	65	2 1/2	65	1 1/4	32	2 1/8	54	2 1/8	54	2 5/16	59	4.22	1.91	4.22	1.91			
				1 1/2	40	2 1/4	57	2 1/4	57	2 3/8	60	4.60	2.09	4.60	2.09			
				1 1/2	40	2 7/16	62	2 7/16	62	2 5/8	67	6.35	2.88	–	–			
3	80	3	80	2	50	2 11/16	68	2 11/16	68	2 3/4	70	7.60	3.45	–	–			
				2	50	2 13/16	73	2 13/16	73	3 1/8	79	9.60	4.35	9.60	4.36			

Note: See following page for pressure-temperature ratings. Galvanized weights may vary. Please contact your Anvil Representative if you need verification.
 All Elbows & Tees 3/8" (10 DN) and Larger are 100% Gas Tested at a Minimum of 100 PSI. (6.9 bar)

PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Date:			
Notes 1:			
Notes 2:			



Malleable Iron Threaded Pipe Unions Pressure - Temperature Ratings

Temperature		Pressure					
		Class 150		Class 250		Class 300	
(°F)	(°C)	psi	bar	psi	bar	psi	bar
-20° to 150°	-28.9° to 65.6°	300	20.7	500	34.5	600	41.4
200°	93.3°	265	18.3	455	31.4	550	37.9
250°	121.1°	225	15.5	405	27.9	505	34.8
300°	148.9°	185	12.8	360	24.8	460	31.7
350°	176.7°	150	10.3	315	21.7	415	28.6
400°	204.4°	110	7.6	270	18.6	370	25.5
450°	232.2°	75	5.2	225	15.5	325	22.4
500°	260.0°	-	-	180	12.4	280	19.3
550°	287.8°	-	-	130	9.0	230	15.9

Note: Unions with Copper or Copper Alloy seats are not intended for use where temperature exceeds 450°F



For Listings/Approval Details and Limitations, visit our website at www.anvilintl.com or contact an Anvil Sales Representative.

Malleable Iron Threaded Fittings Pressure - Temperature Ratings

Temperature		Pressure							
		Class 150		Class 300					
				Sizes 1/4"-1" (6-25 mm)		Sizes 1 1/4"-2" (32-51 mm)		Sizes 2 1/2"-3" (64-76 mm)	
(°F)	(°C)	psi	bar	psi	bar	psi	bar	psi	bar
-20° to 150°	-28.9° to 65.6°	300	20.7	2,000	137.9	1,500	103.4	1,000	68.9
200°	93.3	265	18.3	1,785	123.1	1,350	93.1	910	62.7
250°	121.1	225	15.5	1,575	108.6	1,200	82.7	825	56.9
300°	148.9	185	12.8	1,360	93.8	1,050	72.4	735	50.7
350°	176.7	150	10.3	1,150	79.3	900	62.1	650	44.8
400°	204.4	-	-	935	64.5	750	51.7	560	38.6
450°	232.2	-	-	725	50.0	600	41.4	475	32.8
500°	260.0	-	-	510	35.2	450	31.0	385	26.5
550°	287.8	-	-	300	20.7	300	20.7	300	20.7

Anvil Class 150/300 Malleable Iron Fittings conform to ASME B16.3 and Unions conform to ASME B16.39.

ALL ELBOWS & TEES 3/8" (10 DN) and LARGER ARE 100% GAS TESTED AT A MINIMUM OF 100 PSI. (6.9 bar)

Standards and Specifications

	Dimensions	Material	Galvanizing*	Thread	Pressure Rating
MALLEABLE IRON FITTINGS					
Class 150/PN 20	ASME B16.3	ASTM A-197	ASTM A-153	ASME B1 20.1	ASME B16.3
Class 300/PN 50	ASME B16.3	ASTM A-197	ASTM A-153	ASME B1 20.1	ASME B16.3
MALLEABLE IRON UNIONS					
Class 150/PN 20	ASME B16.39	ASTM A-197	ASTM A-153	ASME B1 20.1	ASME B16.39
Class 250	ASME B16.39	ASTM A-197	ASTM A-153	ASME B1 20.1	ASME B16.39
Class 300/PN 50	ASME B16.39	ASTM A-197	ASTM A-153	ASME B1 20.1	ASME B16.39

* ASTM B 633, Type I, SC 4, may be supplied as alternate zinc coating per applicable ASME B16 product standard.

General Assembly of Threaded Fittings

- 1) Inspect both male and female components prior to assembly.
 - Threads should be free from mechanical damage, dirt, chips and excess cutting oil.
 - Clean or replace components as necessary.
- 2) Application of thread sealant
 - Use a thread sealant that is fast drying, sets-up to a semi hard condition and is vibration resistant. Alternately, an anaerobic sealant may be utilized.
 - Thoroughly mix the thread sealant prior to application.
 - Apply a thick even coat to the male threads only. Best application is achieved with a brush stiff enough to force sealant down to the root of the threads.
- 3) Joint Makeup
 - For sizes up to and including 2" pipe, wrench tight makeup is considered three full turns past handtight. Handtight engagement for 1/2" through 2" thread varies from 4 1/2 turns to 5 turns.
 - For 2 1/2" through 4" sizes, wrench tight makeup is considered two full turns past handtight. Handtight engagement for 2 1/2" through 4" thread varies from 5 1/2 turns to 6 3/4 turns.