

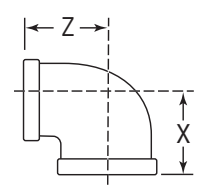


## Class 150 (Standard)

	Size				X		Z		Unit Weight			
	NPS		DN		in		mm		Black		Galv.	
	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs	kg
 	1/4	8	1/8	6	3/4	19	3/4	19	0.10	0.05	0.10	0.05
	3/8	10	1/8	6	13/16	22	7/8	22	0.12	0.05	0.12	0.05
			1/4	8	7/8	22	15/16	24	0.14	0.06	0.14	0.06
	1/2	15	1/4	8	1	25	1	25	0.19	0.09	0.19	0.09
			3/8	10	1 1/16	27	1 1/16	27	0.22	0.10	0.22	0.10
	3/4	20	1/4	8	1 1/8	29	1 1/8	29	0.26	0.12	0.26	0.12
			3/8	10	1 1/8	29	1 1/8	29	0.29	0.13	0.29	0.13
			1/2	15	1 3/16	30	1 1/4	32	0.38	0.17	0.38	0.17
	1	25	3/8	10	1 3/16	30	1 1/4	32	0.41	0.19	0.41	0.19
			1/2	15	1 1/4	32	1 3/8	35	0.46	0.21	0.46	0.21
			3/4	20	1 3/8	35	1 7/16	37	0.56	0.25	0.56	0.25
	1 1/4	32	1/2	15	1 3/8	35	1 9/16	40	0.61	0.28	0.61	0.28
			3/4	20	1 7/16	37	1 5/8	41	0.71	0.32	0.71	0.32
			1	25	1 9/16	40	1 11/16	43	0.87	0.39	0.87	0.39
	1 1/2	40	3/4	20	1 1/2	38	1 3/4	44	0.83	0.38	0.83	0.38
			1	25	1 5/8	41	1 13/16	47	1.02	0.46	1.02	0.46
			1 1/4	32	1 13/16	47	1 7/8	48	1.17	0.53	1.17	0.53
	2	50	3/4	20	1 5/8	41	2	51	1.30	0.59	1.30	0.59
1			25	1 3/4	44	2	51	1.35	0.61	1.35	0.61	
1 1/4			32	1 7/8	48	2 1/8	54	1.53	0.69	1.53	0.69	
1 1/2			40	2	51	2 1/8	54	1.75	0.79	1.75	0.79	
2 1/2	65	1 1/2	40	2 3/16	56	2 1/2	64	2.50	1.13	2.50	1.13	
		2	50	2 7/16	62	2 5/8	67	2.98	1.35	2.98	1.35	
3	80	2	50	2 9/16	65	2 15/16	75	3.75	1.70	3.75	1.70	
		2 1/2	65	2 13/16	73	3	76	4.30	1.95	4.30	1.95	
4	100	3	80	3 5/16	84	3 5/8	92	7.87	3.57	7.87	3.57	

**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](http://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
<b>MALLEABLE IRON FITTINGS</b>					
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
<b>MALLEABLE IRON UNIONS</b>					
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.