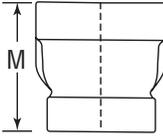


# MALLEABLE IRON FITTINGS



## Class 300 (XS/XH)

 <b>FIGURE 1167 Reducer</b>	Size				End to End M		Unit Weight			
							Black		Galv.	
	NPS	DN	NPS	DN	in	mm	lbs	kg	lbs	kg
 	3/8	10	1/4	8	1 7/16	37	0.21	0.10	0.21	0.10
	1/2	15	1/4	8	1 11/16	43	0.31	0.14	0.31	0.14
			3/8	10			0.34	0.15	0.34	0.15
	3/4	20	1/4	8	1 3/4	44	0.46	0.21	–	–
			3/8	10			0.47	0.21	0.47	0.21
			1/2	15			0.50	0.23	0.50	0.23
	1	25	1/4	8	2	51	0.66	0.30	0.66	0.30
			3/8	10			0.71	0.32	0.71	0.32
			1/2	15			0.71	0.32	0.71	0.32
			3/4	20			0.77	0.35	0.77	0.35
	1 1/4	32	1/2	15	2 3/8	60	1.12	0.51	1.12	0.51
			3/4	20			1.16	0.53	1.16	0.53
			1	25			1.27	0.58	1.27	0.58
	1 1/2	40	1/2	15	2 11/16	68	1.51	0.68	1.51	0.68
			3/4	20			1.57	0.71	1.57	0.71
			1	25			1.62	0.73	1.62	0.73
			1 1/4	32			1.78	0.81	1.78	0.81
	2	50	1/2	15	3 3/16	81	2.39	1.08	2.39	1.08
			3/4	20			2.44	1.11	2.44	1.11
			1	25			2.54	1.15	2.54	1.15
1 1/4			32	2.66			1.21	2.66	1.21	
1 1/2			40	2.72			1.23	2.72	1.23	
2 1/2	65	1 1/2	40	3 11/16	94	4.09	1.85	4.09	1.85	
		2	50			4.32	1.96	–	–	
3	80	1 1/2	40	4 1/16	103	5.79	2.63	–	–	
		2	50			5.83	2.64	5.83	2.64	
		2 1/2	65			6.45	2.93	6.45	2.93	
4	100	2	50	4 3/8	111	9.50	4.31	–	–	
		3	80			10.00	4.54	–	–	

**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.