



Malleable Iron

Cast Iron

Small Steel Fittings

Pipe Nipples & Pipe Couplings

Forged Steel Fittings & Unions

Anvilets

Catawissa

J.B. Smith Products

## 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	Federal/Other
<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•	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•	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•	


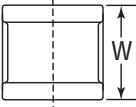
• an American National standard (ANSI), + ASME B1.20.1 was ANSI B2.1, \*\* Formerly WW-P-521, \*\*\* Formerly WW-U-531

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




## Malleable Iron Class 150 (Standard)

<b>FIGURE 1119</b> Return Bends Open Pattern, R.H.	Size		Center to Center		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	1/2	15	1 1/2	38	0.36	0.16	–	–
	3/4	20	2	51	0.64	0.29	–	–
	1	25	2 1/2	64	1.10	0.50	1.10	0.50
	1 1/4	32	3	76	1.77	0.80	–	–
	1 1/2	40	3 1/2	90	2.55	1.16	2.55	1.16
	2	50	4	102	4.00	1.81	4.00	1.81

<b>FIGURE 1121</b> Coupling	Size		W		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
 	1/8*	6	15/16	24	0.06	0.03	0.06	0.03
	1/4	8	1 1/16	27	0.09	0.04	0.09	0.04
	3/8	10	1 3/16	30	0.13	0.06	0.13	0.06
	1/2	15	1 5/16	33	0.20	0.09	0.20	0.09
	3/4	20	1 1/2	38	0.30	0.14	0.30	0.14
	1	25	1 11/16	43	0.48	0.22	0.48	0.22
	1 1/4	32	1 15/16	49	0.75	0.34	0.75	0.34
	1 1/2	40	2 1/8	54	1.00	0.45	1.00	0.45
	2	50	2 1/2	64	1.45	0.66	1.45	0.66
	2 1/2	65	2 7/8	73	2.40	1.09	2.40	1.09
	3	80	3 3/16	81	3.30	1.50	3.30	1.50
	4	100	3 11/16	94	5.72	2.59	5.72	2.59

\* Offered in steel only.

<b>FIGURE 1124</b> Cap	Size		Unit Weight			
			Black		Galv.	
	NPS	DN	lbs	kg	lbs	kg
	1/2	15	0.12	0.05	0.12	0.05
	3/4	20	0.22	0.10	0.22	0.10
	1	25	0.38	0.17	0.38	0.17
	1 1/4	32	0.58	0.26	0.58	0.26
	1 1/2	40	0.73	0.33	0.73	0.33
	2	50	1.13	0.51	1.13	0.51
	2 1/2	65	1.75	0.79	1.75	0.79
	3	80	2.62	1.19	2.62	1.19
	3 1/2	90	3.19	1.45	3.19	1.45
	4	100	4.54	2.06	4.54	2.06
	5	125	6.45	2.93	6.45	2.93
	6	150	10.00	4.54	10.00	4.54

**Note:** See page 17 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)