



Malleable Iron

Cast Iron

Small Steel Fittings

Pipe Nipples & Pipe Couplings

Forged Steel Fittings & Unions

Anvils

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 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
MALLEABLE IRON FITTINGS						
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•	
MALLEABLE IRON UNIONS						
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

Malleable Iron Class 150 (Standard)

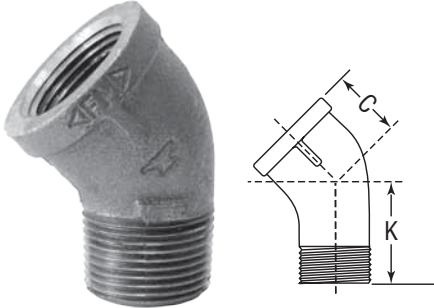
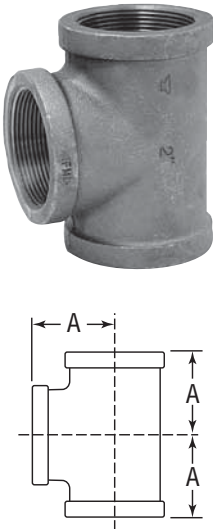
FIGURE 1104 45° Street Elbow	Size		C		K		Unit Weight			
							Black		Galv.	
	NPS	DN	in	mm	in	mm	lbs	kg	lbs	kg
	1/8	6	1 1/16	17	7/8	22	0.06	0.03	0.06	0.03
	1/4	8	3/4	19	15/16	24	0.10	0.05	0.10	0.05
	3/8	10	13/16	22	1	25	0.14	0.06	0.14	0.06
	1/2	15	7/8	22	1 1/8	29	0.20	0.09	0.20	0.09
	3/4	20	1	25	1 5/16	33	0.33	0.15	0.33	0.15
	1	25	1 1/8	29	1 7/16	37	0.52	0.24	0.52	0.24
	1 1/4	32	1 5/16	33	1 11/16	43	0.85	0.39	0.85	0.39
	1 1/2	40	1 7/16	37	1 7/8	48	1.22	0.55	1.22	0.55
	2	50	1 11/16	43	2 1/4	57	1.92	0.87	1.92	0.87

FIGURE 1105 Straight Tee	Size		A		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	1/8	6	1 1/16	17	0.09	0.04	0.09	0.04
	1/4	8	13/16	22	0.15	0.07	0.15	0.07
	3/8	10	15/16	24	0.23	0.10	0.23	0.10
	1/2	15	1 1/8	29	0.41	0.19	0.41	0.19
	3/4	20	1 5/16	33	0.60	0.27	0.60	0.27
	1	25	1 1/2	38	0.90	0.41	0.90	0.41
	1 1/4	32	1 3/4	44	1.31	0.59	1.31	0.59
	1 1/2	40	1 15/16	49	1.73	0.78	1.73	0.78
	2	50	2 1/4	57	2.52	1.14	2.52	1.14
	2 1/2	65	2 11/16	68	4.90	2.22	4.90	2.22
	3	80	3 1/16	78	7.13	3.23	7.13	3.23
	3 1/2	90	3 7/16	87	9.00	4.08	9.00	4.08
	4	100	3 13/16	98	11.32	5.13	11.32	5.13
	5	125	4 1/2	114	19.42	8.81	19.42	8.81
6	150	5 1/8	130	25.50	11.56	25.50	11.56	

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)