



Malleable Iron

Cast Iron

Small Steel Fittings

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.



Pipe Nipples & Pipe Couplings

Forged Steel Fittings & Unions

Anvils

Catavissa

J.B. Smith Products

MALLEABLE IRON

Malleable Iron Class 150 (Standard)

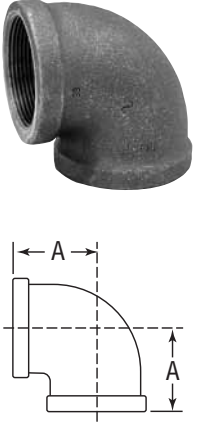
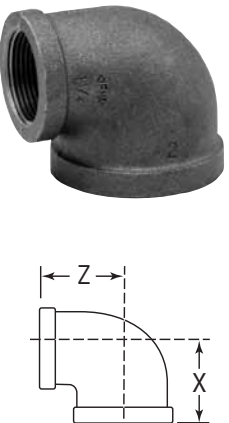
FIGURE 1101 90° Elbow	Size		A		Unit Weight			
					Black		Galv.	
	NPS	DN	in	mm	lbs	kg	lbs	kg
	1/8	6	11/16	17	0.06	0.03	0.06	0.03
	1/4	8	13/16	22	0.11	0.05	0.11	0.05
	3/8	10	15/16	24	0.17	0.08	0.17	0.08
	1/2	15	1 1/8	29	0.30	0.14	0.30	0.14
	3/4	20	1 5/16	33	0.45	0.20	0.45	0.20
	1	25	1 1/2	38	0.73	0.33	0.73	0.33
	1 1/4	32	1 3/4	44	0.97	0.44	0.97	0.44
	1 1/2	40	1 15/16	49	1.30	0.59	1.30	0.59
	2	50	2 1/4	57	2.06	0.93	2.06	0.93
	2 1/2	65	2 11/16	68	3.55	1.61	3.55	1.61
	3	80	3 1/16	78	5.46	2.48	5.46	2.48
	3 1/2	90	3 7/16	87	7.10	3.22	7.10	3.22
	4	100	3 13/16	98	8.95	4.06	8.95	4.06
5	125	4 1/2	114	13.90	6.30	13.90	6.30	
6	150	5 1/8	130	23.00	10.43	23.00	10.43	

FIGURE 1101R Reducing Elbow	Size				X		Z		Unit Weight			
									Black		Galv.	
	NPS	DN	NPS	DN	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	25	1/2	15	1 3/16	30	1 1/4	32	0.38	0.17	0.38	0.17
			3/4	20	1 3/8	35	1 7/16	37	0.41	0.19	0.41	0.19
			3/4	20	1 3/8	35	1 7/16	37	0.46	0.21	0.46	0.21
	1 1/4	32	3/4	20	1 7/16	37	1 9/16	40	0.56	0.25	0.56	0.25
			1	25	1 9/16	40	1 11/16	43	0.61	0.28	0.61	0.28
			1	25	1 9/16	40	1 11/16	43	0.71	0.32	0.71	0.32
	1 1/2	40	3/4	20	1 7/16	37	1 5/8	41	0.87	0.39	0.87	0.39
			1	25	1 9/16	40	1 11/16	43	0.83	0.38	0.83	0.38
			1 1/4	32	1 13/16	47	1 7/8	48	1.02	0.46	1.02	0.46
	2	50	1 1/4	32	1 13/16	47	1 7/8	48	1.17	0.53	1.17	0.53
			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
	2 1/2	65	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	
1 1/2			40	2 3/16	56	2 1/2	64	2.50	1.13	2.50	1.13	
3	80	2	50	2 7/16	62	2 5/8	67	2.98	1.35	2.98	1.35	
		2 1/2	65	2 9/16	65	2 15/16	75	3.75	1.70	3.75	1.70	
4	100	2 1/2	65	2 13/16	73	3	76	4.30	1.95	4.30	1.95	
		3	80	3 5/16	84	3 3/8	92	7.87	3.57	7.87	3.57	

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)