

Malleable Iron Fittings

Malleable Iron Threaded Pipe Union 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, contact a Sales Representative.

Malleable Iron Threaded Fittings Pressure - Temperature Ratings

Temperature		Pressure							
		Class 150		Class 300					
				Sizes 1/4"-1" (6-25mm)		Sizes 1-1/4"-2" (32-51mm)		Sizes 2-1/2"-3" (64-76mm)	
(°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

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
MALLEABLE IRON FITTINGS					
Class 150/PN 20	ASME B16.3	ASME A-197	ASME A-153	ASME B1 20.1	ASME B16.3
Class 300/PN 50	ASME B16.3	ASME A-197	ASME A-153	ASME B1 20.1	ASME B16.3
MALLEABLE IRON UNIONS					
Class 150/PN 20	ASME B16.39	ASME A-197	ASME A-153	ASME B1 20.1	ASME B16.39
Class 250	ASME B16.39	ASME A-197	ASME A-153	ASME B1 20.1	ASME B16.39
Class 300/PN 50	ASME B16.39	ASME A-197	ASME 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.