

# MALLEABLE IRON THREADED FITTINGS ASTM A197

HEX HEAD BUSHINGS			HEX HEAD BUSHINGS			SQUARE HEAD PLUGS		
Size		Approx. Weight	Size		Approx. Weight	Size		Approx. Weight
NPS	DN		NPS	DN		NPS	DN	
1/4 x 1/8	6 x 3	.02	2 x 1	50 x 25	.81	*1/8	3	.02
3/8 x 1/8	10 x 3	.01	2 x 1 1/2	50 x 40	.32	*1/4	6	.01
3/8 x 1/4	10 x 6	.02	2 1/2 x 1	65 x 25	.70	3/8	10	.04
1/2 x 1/8	15 x 3	.04	2 1/2 x 1 1/4	65 x 32	.70	1/2	15	.02
1/2 x 1/4	15 x 6	.09	2 1/2 x 1 1/2	65 x 40	.67	3/4	20	.04
1/2 x 3/8	15 x 10	.03	2 1/2 x 2	65 x 50	.58	1	25	.05
3/4 x 1/8	2 x 3	.07	3 x 1	80 x 25	1.1	1 1/4	32	.15
3/4 x 1/4	20 x 6	.15	3 x 1 1/4	80 x 32	2.2	1 1/2	40	.26
3/4 x 3/8	20 x 10	.07	3 x 1 1/2	80 x 40	1.0	2	50	.13
3/4 x 1/2	20 x 15	.13	3 x 2	80 x 50	.99	2 1/2	65	.55
1 x 1/4	25 x 6	.11	3 x 2 1/2	80 x 65	.99	3	80	.26
1 x 3/8	2 x 10	.26	4 x 1	100 x 25	.91	3 1/2	90	.97
1 x 1/2	25 x 15	.12	4 x 1 1/4	100 x 32	4.0	4	100	.44
1 x 3/4	25 x 20	.11	4 x 1 1/2	100 x 40	1.8	5	125	1.4
1 1/4 x 1/2	32 x 15	.20	4 x 2	100 x 50	4.0	6	150	5.4
1 1/4 x 3/4	32 x 20	.09	4 x 2 1/2	100 x 65	3.7			7.5
1 1/4 x 1	32 x 25	.37	4 x 3	100 x 80	1.7			3.4
1 1/2 x 3/4	40 x 20	.17			3.3			
1 1/2 x 1	40 x 25	.35			1.5			
1 1/2 x 1 1/4	40 x 32	.29			3.1			
2 x 1/2	50 x 15	.13			1.4			
2 x 3/4	50 x 20	.53						
		.24						
		.49						
		.22						
		.31						
		.14						
		.84						
		.38						
		.86						
		.39						

\*Sizes NPS 1/8 & 1/4 (DN 3 & 6) are solid, all other sizes cored.

INCHES	POUNDS
MILLIMETRES	KILOGRAMS

**STANDARDS**

CCTF MALLEABLE IRON FITTINGS are designed to conform with the following industry standards:

MATERIAL:	ASTM A 197 ASTM A 153	Cupola Malleable Iron Zinc Coatings
DIMENSIONS:	ANSI/ASME B 16.3 ASME B 16.14 ASME B 16.39	Malleable Iron Threaded Fittings plings, etc. d Pipe Unions
THREADS:	ANSI/ASME B1.20.1	Pipe Threads. See data below. "Threading."

**\*PRESSURE-TEMPERATURE RATINGS**

MALLEABLE IRON - ANSI B 16.3					
Temperature		Class 150 psig	Class 300 psi <sup>2</sup>		
Degrees C	Degrees F		Sizes 1/4 - 1	Sizes 1/4 - 2	Sizes 2 1/2 - 3
-29 to 66	-200 to 150	300	2000	1500	1000
93	200	265	1785	1350	910
121	250	225	1575	1200	825
149	300	185	1360	1050	735
177	366 <sup>1</sup>	150 <sup>1</sup>	1150	900	650
204	400		935	750	560
232	450		725	600	475
260	500		510	450	385
333	550		300	300	300

<sup>1</sup> Permissible for service temperature up to 366°F, reflecting the temperature of saturated steam at 150 psig.

<sup>2</sup> 14.5 psi = 1 bar = 100 kPa.

\*All CCTF iron fittings are air pressure tested under water.

**IDENTIFICATION, MARKING**

Class 300 Malleable Iron threaded fittings are marked with the numerals "300", the letters "MI", and the size.

Class 150 Malleable Iron threaded fittings have no pressure class markings.

**THREADING**

All fittings shall be threaded with American National Standard Pipe Threads (ANSI/ASME B1.20.1) and shall have taper threads, except wrought couplings and wrought caps in sizes 1/8, 1/4, 3/8 and 1/2, which may have straight threads.















**CONVERSION FACTORS**

The International System (SI) metric equivalent of British units are shown throughout this catalogue.

NPS (Nominal Pipe Size)	= DN* (Nominal Diameter)
Operating Pressure Class	= PN* (Pressure Number)
1 inch	= 25.4 millimetres
1 pound, weight	= 0.4536 kilograms
1 pound, pressure	= 0.06895 bars

\*From the SI designations, Diamètre Nominal and Pression Nominale.

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