













GGTA

MALLEABLE IRON THREADED FITTINGS



INCHES/METRIC

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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 Ferrous Pipe Plugs, Bushings, etc. Malleable Iron Threaded 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 ²		
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 ¹	150 ¹	1150	900	650
204	400		935	750	560
232	450		725	600	475
260	500		510	450	385
333	550		300	300	300

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

² 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

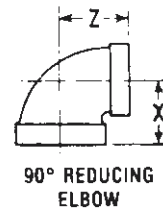
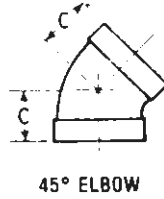
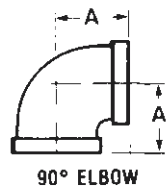
The International System (SI) metric equivalent of British units are shown throughout this catalogue.

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.



CLASS 150 MALLEABLE IRON THREADED FITTINGS ASTM A197

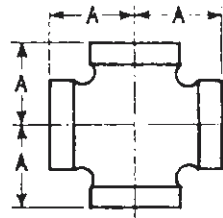


90° ELBOWS				45° ELBOWS				90° REDUCING ELBOWS				90° REDUCING ELBOWS					
Size		Dimension	Approx. Weight	Size		Dimension	Approx. Weight	Size		Dimensions		Approx. Weight	Size		Dimensions		Approx. Weight
NPS	DN	A		NPS	DN	C		NPS	DN	X	Z		NPS	DN	X	Z	
1/8		.69	.07	*1/8		.69	.07	1/4x1/8		.74	.76	.08	1 1/2x1 1/4		1.82	1.88	.95
	3	17.5	.03		*3	17.5	.03		6x3	18.8	19.3	.04		40x32	46.2	47.8	.43
1/4		.81	.11	1/4		.73	.11	3/8x1/4		.88	.90	.11	1 1/2x1		1.65	1.80	.86
	6	20.6	.05		6	18.5	.05		10x6	22.4	22.9	.05		40x25	41.9	45.7	.39
3/8		.95	.15	3/8		.80	.15	3/8x1/8		.81	.85	.12	1 1/2x3/4		1.52	1.75	.66
	10	24.1	.07		10	20.3	.07		10x3	20.5	21.6	.06		40x20	38.6	44.5	.30
1/2		1.12	.22	1/2		.88	.22	1/2x3/8		1.04	1.03	.19	2x1 1/2		2.02	2.16	1.4
	15	28.5	.10		15	22.4	.09		15x10	26.4	26.2	.09		50x40	51.3	54.9	.63
3/4		1.31	.35	3/4		.98	.31	1/2x1/4		.97	.98	.18	2x1 1/4		1.90	2.10	1.3
	20	33.3	.16		20	24.9	.14		15x6	24.6	24.9	.08		50x32	48.3	53.3	.60
1		1.50	.55	1		1.12	.51	3/4x1/2		1.20	1.22	.29	2x1		1.73	2.02	1.1
	25	38.1	.25		25	28.5	.23		20x15	30.5	31.0	.13		50x25	43.9	51.3	.51
1 1/4		1.75	.93	1 1/4		1.29	.75	3/4x3/8		1.12	1.13	.24	2x3/4		1.60	1.97	.90
	32	44.5	.42		32	32.8	.34		20x10	28.5	28.7	.11		50x20	40.6	50.0	.41
1 1/2		1.94	1.1	1 1/2		1.43	.97	3/4x1/2		1.05	1.08	.22	2 1/2x2		2.39	2.60	2.3
	40	49.3	.49		40	36.3	.44		20x6	26.7	27.4	.10		65x50	60.7	66.0	1.04
2		2.25	1.8	2		1.68	1.6	*3/4x1/8		1.13	1.13	.31	2 1/2x1 1/2		2.16	2.51	2.2
	50	57.2	.80		50	42.7	.71		*20x3	28.7	28.7	.14		65x40	54.9	63.8	1.01
2 1/2		2.70	2.9	2 1/2		1.95	2.4	1 x 3/4		1.37	1.45	.46	3x2 1/2		2.83	2.99	3.6
	65	68.6	1.3		65	49.5	1.1		25x20	34.8	36.8	.21		80x65	71.9	75.9	1.62
3		3.08	3.9	3		2.17	3.3	1x1/2		1.26	1.36	.44	3x2		2.52	2.89	2.7
	80	78.2	1.8		80	55.1	1.5		25x15	32.0	35.5	.20		80x50	64.0	73.4	1.21
3 1/2		3.42	6.2	3 1/2		2.39	5.8	1x3/8		1.18	1.27	.41	4x3		3.30	3.60	7.7
	90	86.9	2.8		90	60.7	2.6		25x10	30.0	32.3	.19		100x80	83.8	91.4	.35
4		3.79	8.2	4		2.61	6.2	1 1/4x1		1.58	1.67	.75					
	100	96.3	3.7		100	66.3	2.8		32x25	40.1	42.4	.34					
5		4.50	12.6	5		3.05	11.5	1 1/4x3/4		1.45	1.62	.57					
	125	114.3	5.7		125	77.5	5.2		32x20	36.8	41.2	.26					
6		5.13	19.6	6		3.46	13.9	1 1/4x1/2		1.34	1.53	.51					
	150	130.3	8.9		150	87.9	6.3		32x15	34.0	38.9	.23					

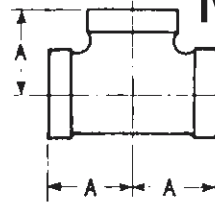
*These sizes not specified in ASME/ANSI B16.3

INCHES	POUNDS
MILLIMETRES	KILOGRAMS

CLASS 150 MALLEABLE IRON THREADED FITTINGS ASTM A197



CROSS



TEE

CROSSES				TEES			
Size		Dimension	Approx. Weight	Size		Dimension	Approx. Weight
NPS	DN	A		NPS	DN	A	
1/8		.69	.15	1/8		.69	.09
	3	17.5	.07		3	17.5	.04
1/4		.81	.17	1/4		.81	.11
	6	20.6	.08		6	20.6	.05
3/8		.95	.31	3/8		.95	.20
	10	24.1	.14		10	24.1	.09
1/2		1.12	.30	1/2		1.12	.24
	15	28.5	.14		15	28.5	.11
3/4		1.31	.49	3/4		1.31	.42
	20	33.3	.22		20	33.3	.19
1		1.50	.79	1		1.50	.66
	25	38.1	.36		25	38.1	.30
1 1/4		1.75	1.3	1 1/4		1.75	1.1
	32	44.5	.57		32	44.5	.49
1 1/2		1.94	1.5	1 1/2		1.94	1.3
	40	49.3	.66		40	49.3	.59
2		2.25	2.4	2		2.25	2.0
	50	57.2	1.1		50	57.2	.91
2 1/2		2.70	4.6	2 1/2		2.70	3.6
	65	68.6	2.09		65	68.6	1.61
3		3.08	6.1	3		3.08	5.0
	80	78.2	2.76		80	78.2	2.28
3 1/2		3.42	8.6	3 1/2		3.42	7.2
	90	86.9	3.89		90	86.9	3.28
4		3.79	11.9	4		3.79	9.3
	100	96.3	5.38		100	96.3	4.23
5		4.50	22.0	5		4.50	17.2
	125	114.3	10.0		125	114.3	7.82
6		5.13	23.9	6		5.13	22.9
	150	130.3	10.84		150	130.3	10.40

INCHES
MILLIMETRES

POUNDS
KILOGRAMS

CLASS 150

Malleable Iron Threaded REDUCING TEES

ASTM A197



STRAIGHT RUN,
REDUCING OUTLET

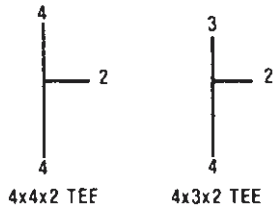
REDUCED RUN;
OTHER END AND
OUTLET EQUAL

REDUCED ON RUN
AND OUTLET

Size		Dimensions			Approx. Weight	Size		Dimensions			Approx. Weight
NPS	DN	X	Y	Z		NPS	DN	X	Y	Z	
1/4 x 1/4 x 1/8		.74	.74	.76	.12	1 x 3/4 x 1		1.50	1.45	1.50	.74
	6 x 6 x 3	18.8	18.8	19.3	.05		25 x 20 x 25	38.1	36.8	38.1	.33
3/8 x 3/8 x 1/4		.88	.88	.90	.20	1 x 3/4 x 3/4		1.37	1.31	1.45	.62
	10 x 10 x 6	22.4	22.4	22.9	.09		25 x 20 x 20	34.8	33.3	36.8	.28
3/8 x 1/4 x 3/8		.95	.90	.95	.19	1 x 3/4 x 1/2		1.26	1.20	1.36	.56
	10 x 6 x 10	24.1	22.9	24.1	.09		25 x 20 x 15	32.0	30.5	35.5	.25
3/8 x 1/4 x 1/4		.88	.81	.90	.20	1 x 1/2 x 1		1.50	1.36	1.50	.68
	10 x 6 x 6	22.4	20.6	22.9	.09		25 x 15 x 25	38.1	35.5	38.1	.31
1/2 x 1/2 x 3/8		1.04	1.05	1.03	.28	1 x 1/2 x 3/4		1.37	1.22	1.45	.59
	15 x 15 x 10	26.4	26.4	26.2	.13		25 x 15 x 20	34.8	31.0	36.8	.27
1/2 x 1/2 x 1/4		.97	.97	.98	.26	1 x 1/2 x 1/2		1.26	1.12	1.36	.59
	15 x 15 x 6	24.6	24.6	24.9	.12		25 x 15 x 15	32.0	28.5	35.5	.27
1/2 x 3/8 x 1/2		1.12	1.03	1.12	.30	1 1/4 x 1 1/4 x 1		1.58	1.58	1.67	1.11
	15 x 10 x 15	28.5	26.2	28.5	.14		32 x 32 x 25	40.1	40.1	42.4	.52
1/2 x 3/8 x 3/8		1.04	.95	1.03	.27	1 1/4 x 1 1/4 x 3/4		1.45	1.45	1.62	.90
	15 x 10 x 10	26.4	24.1	26.2	.12		32 x 32 x 20	36.8	36.8	41.2	.41
1/2 x 1/4 x 1/2		1.12	.98	1.12	.28	1 1/4 x 1 1/4 x 1/2		1.34	1.34	1.53	.86
	15 x 6 x 15	28.5	24.9	28.5	.13		32 x 32 x 15	34.0	34.0	38.9	.39
3/4 x 3/4 x 1/2		1.20	1.20	1.22	.42	1 1/4 x 1 1/4 x 3/8		1.26	1.26	1.44	.75
	20 x 20 x 15	30.5	30.5	31.0	.19		32 x 32 x 10	32.0	32.0	36.6	.34
3/4 x 3/4 x 3/8		1.12	1.12	1.13	.39	1 1/4 x 1 x 1 1/4		1.75	1.67	1.75	1.1
	20 x 20 x 10	28.5	28.5	28.7	.18		32 x 25 x 32	44.5	42.4	44.5	.52
3/4 x 3/4 x 1/4		1.05	1.05	1.08	.35	1 1/4 x 1 x 1		1.58	1.50	1.67	1.1
	20 x 20 x 6	26.7	26.7	27.4	.16		32 x 25 x 25	40.1	38.1	42.4	.52
3/4 x 1/2 x 3/4		1.31	1.22	1.31	.47	1 1/4 x 1 x 3/4		1.45	1.37	1.62	.83
	20 x 15 x 20	33.3	31.0	33.3	.21		32 x 25 x 20	36.8	34.8	41.2	.38
3/4 x 1/2 x 1/2		1.20	1.12	1.22	.42	1 1/4 x 1 x 1/2		1.34	1.26	1.53	.78
	20 x 15 x 15	30.5	28.5	31.0	.19		32 x 25 x 15	34.0	32.0	38.9	.35
3/4 x 3/8 x 3/4		1.31	1.13	1.31	.44	1 1/4 x 3/4 x 1 1/4		1.75	1.62	1.75	1.1
	20 x 10 x 20	33.3	28.7	33.3	.20		32 x 20 x 32	44.5	41.2	44.5	.50
3/4 x 3/8 x 3/8		1.12	.95	1.13	.33	1/4 x 3/4 x 1		1.58	1.45	1.67	.92
	20 x 10 x 10	28.5	24.1	28.7	.15		32 x 20 x 25	40.1	36.8	42.4	.42
3/4 x 1/4 x 3/4		1.31	1.08	1.31	.42	1 1/4 x 3/4 x 3/4		1.45	1.31	1.62	.90
	20 x 6 x 20	33.3	27.4	33.3	.19		32 x 20 x 20	36.8	33.3	41.2	.41
1 x 1 x 3/4		1.37	1.37	1.45	.62	1 1/2 x 1 1/2 x 1 1/4		1.82	1.82	1.88	1.3
	25 x 25 x 20	34.8	34.8	36.8	.28		40 x 40 x 32	46.2	46.2	47.8	.61
1 x 1 x 1/2		1.26	1.26	1.36	.59	1 1/2 x 1 1/2 x 1		1.65	1.65	1.80	1.2
	25 x 25 x 15	32.0	32.0	35.5	.27		40 x 40 x 25	41.9	41.9	45.7	.56
1 x 1 x 3/8		1.18	1.18	1.27	.53	1 1/2 x 1 1/2 x 3/4		1.52	1.52	1.75	1.1
	25 x 25 x 10	30.0	30.0	32.3	.24		40 x 40 x 20	38.6	38.6	44.5	.52
1 x 1 x 1/4		1.11	1.11	1.22	.55	1 1/2 x 1 1/2 x 1/2		1.41	1.41	1.66	.86
	25 x 25 x 6	28.2	28.2	31.0	.25		40 x 40 x 15	35.8	35.8	42.2	.39

Continued on page 7

IDENTIFICATION OF REDUCING TEES



CLASS 150

Malleable Iron Threaded

REDUCING TEES

continued

ASTM A197

Size		Dimensions			Approx. Weight	Size		Dimensions			Approx. Weight
NPS	DN	X	Y	Z		NPS	DN	X	Y	Z	
1 1/2 x 1 1/4 x 1 1/2		1.94	1.88	1.94	1.6	2 1/2 x 2 1/2 x 1 1/2		2.16	2.16	2.51	2.9
	40 x 32 x 40	49.3	47.8	49.3	.73		65 x 65 x 40	54.9	54.9	63.8	1.3
1 1/2 x 1 1/4 x 1 1/4		1.82	1.75	1.88	1.3	2 1/2 x 2 1/2 x 1 1/4		2.04	2.04	2.45	2.9
	40 x 32 x 32	46.2	44.5	47.8	.61		65 x 65 x 32	51.8	51.8	62.2	1.3
1 1/2 x 1 1/4 x 1		1.65	1.58	1.80	1.2	2 1/2 x 2 1/2 x 1		1.87	1.87	2.37	2.6
	40 x 32 x 25	41.9	40.1	45.7	.54		65 x 65 x 25	47.5	47.5	60.2	1.2
1 1/2 x 1 1/4 x 3/4		1.52	1.45	1.75	1.1	2 1/2 x 2 1/2 x 3/4		1.74	1.74	2.32	2.2
	40 x 32 x 20	38.6	36.3	44.5	.50		65 x 65 x 20	44.2	44.2	58.9	1.0
2 x 2 x 1 1/2		2.02	2.02	2.16	2.1	2 1/2 x 2 x 2 1/2		2.70	2.60	2.70	4.1
	50 x 50 x 40	51.3	51.3	54.9	.96		65 x 50 x 65	68.6	66.0	68.6	1.9
2 x 2 x 1 1/4		1.90	1.90	2.10	1.9	2 1/2 x 2 x 2		2.39	2.25	2.60	3.3
	50 x 50 x 32	48.3	48.3	53.3	.89		65 x 50 x 50	60.7	57.2	66.0	1.5
2 x 2 x 1		1.73	1.73	2.02	1.6	*2 1/2 x 2 x 1 1/2		2.81	2.81	2.50	4.0
	50 x 50 x 25	43.9	43.9	51.3	.73		*65 x 50 x 40	71.4	71.4	63.5	1.8
2 x 2 x 3/4		1.60	1.60	1.97	1.6	3 x 3 x 2 1/2		2.83	2.83	2.99	4.9
	50 x 50 x 20	40.6	40.6	50.0	.72		80 x 80 x 65	71.9	71.9	76.0	2.2
2 x 2 x 1/2		1.49	1.49	1.88	1.3	3 x 3 x 2		2.52	2.52	2.89	3.9
	50 x 50 x 15	37.9	37.9	47.8	.61		80 x 80 x 50	64.0	64.0	73.4	1.8
*2 x 2 x 3/8		1.49	1.49	1.88	1.6	3 x 3 x 1 1/2		2.29	2.29	2.80	3.7
	*50 x 50 x 10	37.9	37.9	47.8	.73		80 x 80 x 40	58.2	58.2	71.1	1.7
2 x 1 1/2 x 2		2.25	2.16	2.25	2.3	3 x 3 x 1 1/4		2.17	2.17	2.74	3.7
	50 x 40 x 50	57.2	54.8	57.2	1.0		80 x 80 x 32	55.1	55.1	69.6	1.7
2 x 1 1/2 x 1 1/2		2.02	1.94	2.16	2.1	4 x 4 x 3		3.30	3.30	3.60	8.1
	50 x 40 x 40	51.3	49.3	54.9	.96		100 x 100 x 80	83.8	83.8	91.4	3.7
2 x 1 1/2 x 1 1/4		1.90	1.82	2.10	1.8	4 x 4 x 2 1/2		3.05	3.05	3.51	8.1
	50 x 40 x 32	48.3	46.2	53.3	.82		100 x 100 x 65	77.5	77.5	89.2	3.7
2 x 1 1/2 x 1		1.73	1.65	2.02	1.6	4 x 4 x 2		2.74	2.74	3.41	6.8
	50 x 40 x 25	43.9	41.9	51.3	.73		100 x 100 x 50	69.6	69.6	86.6	3.1
2 x 1 1/4 x 2		2.25	2.10	2.25	2.3	4 x 4 x 1 1/2		2.51	2.51	3.32	6.3
	50 x 32 x 50	57.2	53.3	57.2	1.0		100 x 100 x 40	63.8	63.8	84.3	2.9
2 x 1/4 x 1 1/2		2.02	1.88	2.16	1.9	*4 x 4 x 1 1/4		2.75	2.75	3.44	6.1
	50 x 32 x 40	51.3	47.8	54.9	.86		*100 x 100 x 32	69.9	69.9	87.4	2.8
2 x 1 1/4 x 1 1/4		1.90	1.75	2.10	1.9	*4 x 4 x 1		2.75	2.75	3.44	5.8
	50 x 32 x 32	48.3	44.5	53.3	.89		*100 x 100 x 25	69.9	69.9	87.4	2.6
2 x 1 x 2		2.25	2.02	2.25	2.1	6 x 6 x 4		4.13	4.13	4.94	17.9
	50 x 25 x 50	57.2	51.3	57.2	.95		150 x 150 x 100	104.9	104.9	125.5	8.1
2 x 3/4 x 2		2.25	1.97	2.25	2.1	6 x 6 x 3		3.64	3.64	4.75	16.1
	50 x 20 x 50	57.2	50.0	57.2	.95		150 x 150 x 80	92.5	92.5	120.7	7.3
2 x 1/2 x 2		2.25	1.88	2.25	2.1	6 x 6 x 2		3.08	3.08	4.56	13.9
	50 x 15 x 50	57.2	47.8	57.2	.95		150 x 150 x 50	78.2	78.2	115.8	16.3
2 1/2 x 2 1/2 x 2		2.39	2.39	2.60	3.3						
	65 x 65 x 50	60.7	60.7	66.0	1.5						

INCHES
MILLIMETRES

POUNDS
KILOGRAMS

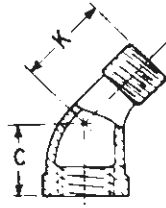
*These sizes not specified by ASME/ANSI B16.3

CLASS 150

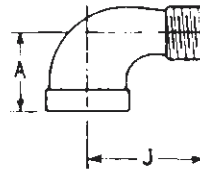
Malleable Iron Threaded

STREET ELBOWS

ASTM A197



45° STREET ELBOW

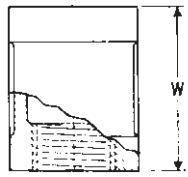


90° STREET ELBOW

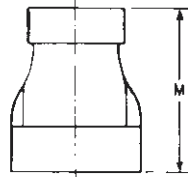


45° STREET ELBOWS					90° STREET ELBOWS					
Size		Dimensions			Approx. Weight	Size		Dimensions		Approx. Weight
NPS	DN	C	K	NPS		DN	A	J		
*1/8		.69	.88	.06	1/8		.69	1.00	.07	
	*3	17.5	22.4	.03		3	17.5	25.4	.03	
1/4		.73	.94	.09	1/4		.81	1.19	.09	
	6	18.5	23.9	.04		6	20.6	30.2	.04	
3/8		.80	1.03	.13	3/8		.95	1.44	.13	
	10	20.3	26.2	.06		10	24.1	36.6	.06	
1/2		.88	1.15	.17	1/2		1.12	1.63	.22	
	15	22.4	29.2	.08		15	28.5	41.2	.10	
3/4		.98	1.29	.29	3/4		1.31	1.89	.33	
	20	24.9	32.8	.13		20	33.3	48.0	.15	
1		1.12	1.47	.46	1		1.50	2.14	.55	
	25	28.5	37.3	.21		25	38.1	54.4	.25	
1 1/4		1.29	1.71	.79	1 1/4		1.75	2.45	.88	
	32	32.8	43.4	.36		32	44.5	62.2	.40	
1 1/2		1.43	1.88	.93	1 1/2		1.94	2.69	1.1	
	40	36.3	47.8	.42		40	49.3	68.3	.52	
2		1.68	2.22	1.5	2		2.25	3.26	1.8	
	50	42.7	56.4	.66		50	57.2	82.8	.81	
					2 1/2		2.70	3.86	2.9	
						65	68.6	98.0	1.3	
					3		3.08	4.51	3.9	
						80	78.2	114.6	1.8	
					4		3.79	5.69	8.4	
						100	96.3	144.5	3.8	

*This size not specified in ASME/ANSI B16.3



COUPLING



REDUCING COUPLING

CLASS 150

Malleable Iron Threaded

COUPLINGS

ASTM A197

COUPLINGS				REDUCED COUPLINGS				REDUCING COUPLINGS			
Size		W	Approx. Weight	Size		M	Approx. Weight	Size		M	Approx. Weight
NPS	DN			NPS	DN			NPS	DN		
1/8	3	.96	.07	1/4 x 1/8	6 x 3	1.00	.08	2 x 1	50 x 25	2.81	.93
1/4	6	1.06	.07	3/8 x 1/4	10 x 6	1.13	.11	2 x 3/4	50 x 20	2.81	.81
3/8	10	1.16	.11	3/8 x 1/8	10 x 3	1.13	.11	2 x 1/2	50 x 15	2.81	.90
1/2	15	1.34	.18	1/2 x 3/8	15 x 10	1.25	.18	2 1/2 x 2	65 x 50	3.25	1.6
3/4	20	1.52	.26	1/2 x 1/4	15 x 6	1.25	.13	2 1/2 x 1 1/2	65 x 40	3.25	1.4
1	25	1.67	.44	1/2 x 1/8	15 x 3	1.25	.13	2 1/2 x 1 1/4	65 x 32	3.25	1.5
1 1/4	32	1.93	.62	3/4 x 1/2	20 x 15	1.44	.22	2 1/2 x 1	65 x 25	3.25	1.0
1 1/2	40	2.15	.90	3/4 x 3/8	20 x 10	1.44	.22	3 x 2 1/2	80 x 65	3.69	2.4
2	50	2.53	1.2	3/4 x 1/4	20 x 6	1.44	.20	3 x 2	80 x 50	3.69	2.1
2 1/2	65	2.88	1.9	1 x 3/4	25 x 20	1.69	.35	3 x 1 1/2	80 x 40	3.69	1.9
3	80	3.18	2.6	1 x 1/2	25 x 15	1.69	.31	3 x 1 1/4	80 x 32	3.69	2.0
*3 1/2	*90	3.74	4.5	1 x 3/8	25 x 10	1.69	.31	3 x 1	80 x 25	3.69	2.0
4	100	3.69	4.6	1 x 1/4	25 x 6	1.69	.30	*3 1/2 x 3	*90 x 80	4.0	4.9
*5	*125	4.25	6.6	1 1/4 x 1	32 x 25	2.06	.55	*3 1/2 x 2 1/2	*90 x 65	4.0	.44
*6	*150	4.75	9.9	1 1/4 x 3/4	32 x 20	2.06	.49	*3 1/2 x 2	*90 x 50	4.0	4.2
				1 1/4 x 1/2	32 x 15	2.06	.44	4 x 3 1/2	100 x 90	4.38	4.2
				1 1/2 x 1 1/4	40 x 32	2.31	.70	4 x 3	100 x 80	4.38	3.9
				1 1/2 x 1	40 x 25	2.31	.62	4 x 2 1/2	100 x 65	4.38	3.7
				1 1/2 x 3/4	40 x 20	2.31	.59	4 x 2	100 x 50	4.38	3.6
				1 1/2 x 1/2	40 x 15	2.31	.55	4 x 1 1/2	100 x 40	4.38	3.3
				2 x 1 1/2	50 x 40	2.81	1.0				
				2 x 1 1/4	50 x 32	2.81	.97				

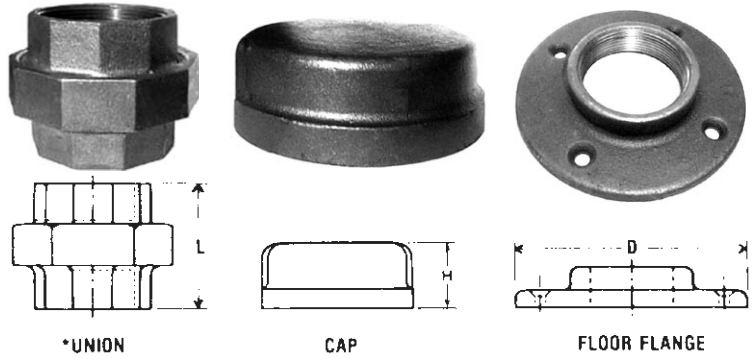
*These sizes not specified in ASME/ANSI B16.3

*These sizes not specified in ASME/ANSI B16.3

POUNDS
KILOGRAMS
INCHES
MILLIMETRES

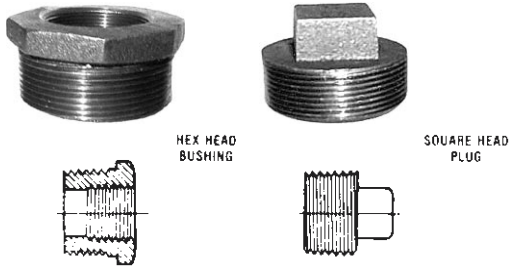


CLASS 150
Malleable Iron
THREADED
FITTINGS
ASTM A197



*UNIONS				CAPS (ANSI B16.3)				FLOOR FLANGES			
Size		L	Approx. Weight	Size		H MIN	Approx. Weight	Size		D	Approx. Weight
NPS	DN			NPS	DN			NPS	DN		
1/4		1.32	.20	1/8		.53	.04	1/4		2.62	.24
	6	33.5	.09		3	13.5	.02		6	66.5	.11
3/8		1.52	.31	1/4		.63	.04	3/8		2.94	.37
	10	38.5	.14		6	16.0	.02		10	74.7	.17
1/2		1.59	.42	3/8		.74	.09	1/2		3.0	.57
	15	40.5	.19		10	18.8	.04		15	76	.26
3/4		1.91	.56	1/2		.87	.11	3/4		3.3	.68
	20	48.5	.27		15	22.1	.05		20	85	.31
1		2.11	.93	3/4		.97	.18	1		3.8	.82
	25	53.5	.42		20	24.6	.08		25	95	.37
1 1/4		2.32	1.3	1		1.16	.31	1 1/4		4.1	1.2
	32	59.0	.57		25	29.5	.14		32	105	.54
1 1/2		2.58	1.7	1 1/4		1.28	.53	1 1/2		4.5	1.5
	40	65.5	.78		32	32.5	.24		40	115	.66
2		2.85	2.6	1 1/2		1.33	.57	2		5.1	2.1
	50	72.5	1.2		40	33.8	.26		50	130	.96
2 1/2		3.29	4.6	2		1.45	.88	2 1/2		6.75	2.6
	65	83.5	2.1		50	36.8	.40		65	171.5	1.1
3		3.66	5.7	2 1/2		1.70	1.5	3		7.00	3.8
	80	93.0	2.6		65	43.2	.70		80	177.8	1.72
4		4.51	10.1	3		1.80	1.9				
	100	114.5	4.6		80	45.7	.86				
				3 1/2		1.90	-				
					90	48.3	-				
				4		2.08	3.5				
					100	52.8	1.6				
				5		2.32	-				
					125	58.9	-				
				6		2.55	7.3				
					150	64.8	3.29				

*Sizes 1" through 4" (DN 25 thru 100) conform to ASME/ANSI B16.39.



MALLEABLE IRON THREADED FITTINGS

ASTM A197

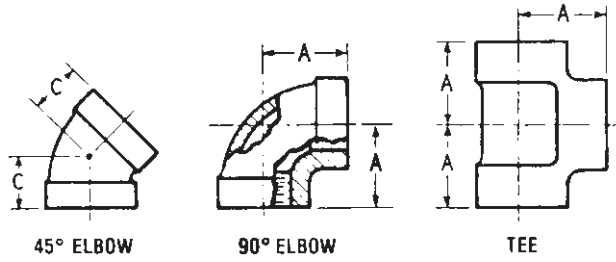
HEX HEAD BUSHINGS			HEX HEAD BUSHINGS			SQUARE HEAD PLUGS		
Size		Approx. Weight	Size		Approx. Weight	Size		Approx. Weight
NPS	DN		NPS	DN		NPS	DN	
1/4 x 1/8	6 x 3	.02	2 x 1	50 x 25	.81	*1/8	3	.02
3/8 x 1/8	10 x 3	.01	2 x 1 1/2	50 x 40	.32	*1/4	6	.01
3/8 x 1/4	10 x 6	.02	2 1/2 x 1	65 x 25	.70	3/8	10	.04
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	1.5	3/4	20	.09
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	.06	3 x 2 1/2	80 x 65	2.0	3	80	.26
1 x 3/8	2 x 10	.12	4 x 1	100 x 25	.91	3 1/2	90	1.4
1 x 1/2	25 x 15	.26	4 x 1 1/4	100 x 32	4.0	4	100	1.1
1 x 3/4	25 x 20	.11	4 x 1 1/2	100 x 40	1.8	5	125	1.1
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	.37	4 x 2 1/2	100 x 65	3.7			7.5
1 1/4 x 1	32 x 25	.17	4 x 3	100 x 80	3.3			3.4
1 1/2 x 3/4	40 x 20	.29			1.5			
1 1/2 x 1	40 x 25	.13			3.1			
1 1/2 x 1 1/4	40 x 32	.53			1.4			
2 x 1/2	50 x 15	.24						
2 x 3/4	50 x 20	.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



CLASS 300
Malleable Iron
THREADED
FITTINGS
ASME/ANSI B16.3
ASTM A197



45° ELBOWS				90° ELBOWS				TEES			
Size		C	Approx. Weight	Size		A	Approx. Weight	Size		A	Approx. Weight
NPS	DN			NPS	DN			NPS	DN		
1/4		.81	.19	1/4		.94	.19	1/4		.94	.29
	6	20.6	.09		6	23.9	.09		6	23.9	.13
3/8		.88	.28	3/8		1.06	.29	3/8		1.06	.42
	10	22.4	.13		10	26.9	.13		10	26.9	.19
1/2		1.00	.44	1/2		1.25	.50	1/2		1.25	.72
	15	25.4	.20		15	31.8	.23		15	31.8	.33
3/4		1.13	.70	3/4		1.44	.77	3/4		1.44	1.1
	20	28.7	.32		20	36.6	.35		20	36.6	.50
1		1.31	1.1	1		1.63	1.2	1		1.63	1.7
	25	33.3	.50		25	41.4	.53		25	41.4	.75
1 1/4		1.50	1.7	1 1/4		1.94	1.8	1 1/4		1.94	2.6
	32	38.1	.75		32	49.3	.82		32	49.3	1.17
1 1/2		1.69	2.2	1 1/2		2.13	2.4	1 1/2		2.13	3.4
	40	42.9	1.01		40	54.1	1.10		40	54.1	1.54
2		2.00	3.4	2		2.50	3.8	2		2.50	5.3
	50	50.8	1.6		50	63.5	1.75		50	63.5	2.40
2 1/2		2.25	5.6	2 1/2		2.94	6.3	2 1/2		2.94	8.4
	65	57.2	2.5		65	74.7	2.9		65	74.7	3.8
3		2.50	8.3	3		3.38	9.5	3		3.38	12.8
	80	63.5	3.8		80	85.9	4.3		80	85.9	5.8

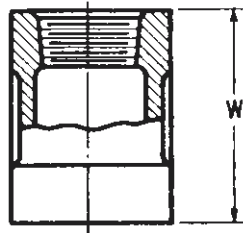
CLASS 300

Malleable Iron Threaded

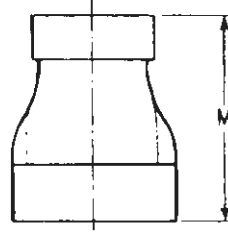
COUPLINGS

ASME/ANSI B16.3

ASTM A197



COUPLINGS



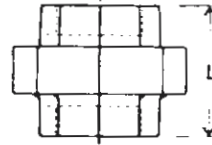
REDUCING
COUPLING

COUPLINGS				REDUCING COUPLINGS			
Size		Dimension	Approx. Weight	Size		Dimensions	Approx. Weight
NPS	DN	W		NPS	DN	M	
1/4		1.37		.17	3/4 x 1/2		
	6	35.1	.08		20 x 15	44.5	.25
3/8		1.62	.26	1 x 3/4		2.00	.83
	10	41.4	.12		25 x 20	50.8	.38
1/2		1.87	.44	1 x 1/2		2.00	.77
	15	47.8	.20		25 x 15	50.8	.35
3/4		2.12	.72	1 1/4 x 1		2.38	1.3
	20	54.1	.33		32 x 25	60.5	.57
1		2.37	1.1	1 1/2 x 1 1/4		2.69	1.8
	25	60.5	.48		40 x 32	68.3	.82
1 1/4		2.87	2.87	2 x 1 1/2		3.19	2.8
	32	73.2	.76		50 x 40	81.0	1.25
1 1/2		2.87	2.1	2 1/2 x 2		3.69	4.5
	40	73.2	.96		65 x 50	93.7	2.0
2		3.62	3.5	3 x 2 1/2		4.06	6.3
	50	92.2	1.59		80 x 65	103.1	2.9
2 1/2		4.12	5.4				
	65	104.9	2.4				
3		4.12	7.4				
	80	104.9	3.6				

INCHES
MILLIMETRES

POUNDS
KILOGRAMS

CLASS 300 Malleable Iron THREADED FITTINGS ASTM A197



UNION

CAP

UNIONS (ANSI B16.39)				CAPS (ANSI B16.3)			
Size		Dimension	Approx. Weight	Size		Dimensions	Approx. Weight
NPS	DN	L		NPS	DN	H MIN.	
1/2		2.09	.64	1/2		.98	.26
	15	.53	.29		15	24.9	
3/4		2.23	.97	3/4		1.08	.39
	20	56.6	.44		20	27.4	
1		2.49	1.5	1		1.26	.62
	25	63.2	.68		25	32.0	
1 1/4		2.72	2.2	1 1/4		1.38	.98
	32	.69	1.0		32	35.1	
1 1/2		2.95	2.6	1 1/2		1.43	1.32
	40	.75	1.20		40	36.3	
2		3.44	4.2	2		1.68	1.91
	50	87.3	1.92		50	42.7	
2 1/2		3.89	7.3				
	65	98.8	3.3				
3		4.24	10.5				
	80	107.8	4.8				

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CATALOGUE SECTION 7