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**ACCESORIOS DE
HIERRO MALEABLE**

ACERO AL CARBONO/GALVANIZADO

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ACCESORIOS ROSCADOS DE HIERRO MALEABLE



90° ELBOWS

CLASS 150 M.I.4
CLASS 300 M.I.12



90° REDUCING ELBOWS

CLASS 150 M.I.4



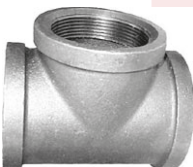
45° ELBOWS

CLASS 150 M.I.4
CLASS 300 M.I.12



CROSSES

CLASS 150 M.I.4
CLASS 300 M.I.12



TEES

CLASS 150 M.I.5
CLASS 300 M.I.12



REDUCING TEES

CLASS 150 M.I.6



COUPLINGS

CLASS 150 M.I.9
CLASS 300 M.I.12



REDUCING COUPLINGS

CLASS 150 M.I.9
CLASS 300 M.I.12



90° STREET ELBOWS

CLASS 150 M.I.8



45° STREET ELBOWS

CLASS 150 M.I.8



CAPS

CLASS 150 M.I.10
CLASS 300 M.I.14



UNIONS

CLASS 150 M.I.10
CLASS 300 M.I.14



FLOOR FLANGES

CLASS 150 M.I.10



SQUARE HEAD PLUGS

.....11



HEXAGON BUSHINGS

.....11



STANDARDS

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

MATERIAL:	ASTM A 197	Cupola Malleable Iron
	ASTM A 153	Zinc Coatings
DIMENSIONS:	ANSI/ASME B 16.3	Malleable Iron Threaded Fittings
	ASME B 16.14	Ferrous Pipe Plugs, Bushings, etc.
	ASME B 16.39	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

² saturated steam at 150 psig.

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

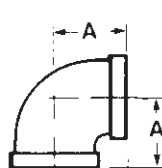
1 pound, pressure= 0.06895 bars

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

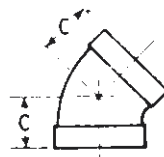


90° ELBOWS

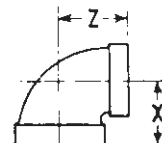
CLASS 150 - ASTM A 197



90° ELBOW



45° ELBOW



90° REDUCING ELBOW



90 ° ELBOW 45 °				ELBOWS90 °				REDUCING ELBOWS90 °				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

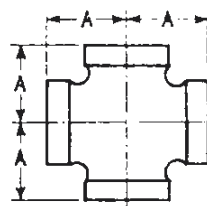
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Aseguramos tu inversión garantizando que tus materiales cumplan con las certificaciones internacionales de calidad. Todos nuestros materiales incluyen certificado de calidad.

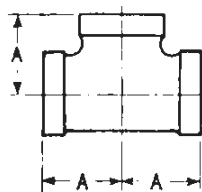


TEE

CLASS 150 - ASTM A 197



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

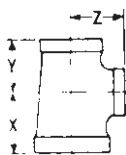
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REDUCING TEES

CLASS 150 - ASTM A 197



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

INCHES

MILLIMETRES

POUNDS

KILOGRAMS

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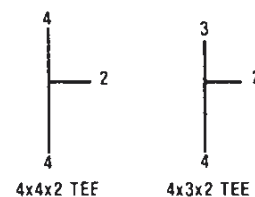
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REDUCING TEES

CLASS 150 - ASTM A 197

IDENTIFICATION OF REDUCING TEES



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						

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

INCHES

MILLIMETRES

POUNDS

KILOGRAMS

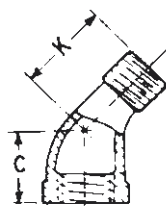
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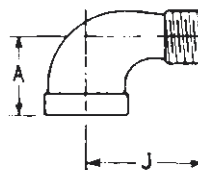


STREET ELBOWS

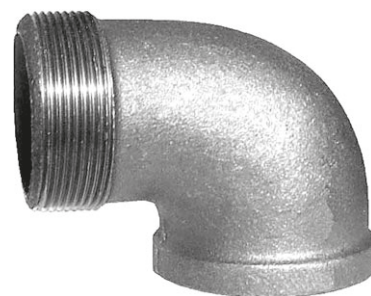
CLASS 150 - ASTM A 197



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

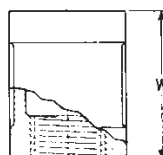
*This size not specified in ASME/ANSI B16.3

INCHES	POUNDS
MILLIMETRES	KILOGRAMS

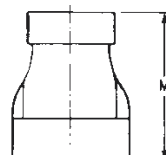


COUPLINGS

CLASS 150 - ASTM A 197



COUPLING



REDUCING
COUPLING



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
		24.4	.03			25.4	.04			71.4	.42
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
		26.9	.03			28.7	.05			71.4	.37
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
		29.5	.05			28.7	.05			71.4	.41
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
		34.0	.08			31.8	.08			82.6	.72
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
		38.6	.12			31.8	.06			82.6	.62
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
		42.4	.20			31.8	.06			82.6	.67
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
		49.0	.28			36.6	.10			82.6	.46
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
		54.6	.41			36.6	.10			93.7	1.07
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
		64.3	.56			36.6	.09			93.7	.94
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
		73.2	.88			42.9	.16			93.7	.89
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
		80.8	1.2			42.9	.14			93.7	.92
*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
		95.0	2.0			42.9	.14			93.7	.93
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
		93.7	2.1			42.9	.13			101.6	.22
*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
		108.0	3.0			52.3	.25			101.6	2.0
*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
		120.7	4.5			52.3	.22			101.6	1.9
				1 1/4 x 1/2	32 x 15	2.06	.44	4 x 3 1/2	100 x 90	4.38	4.2
						52.3	.20			111.3	1.9
				1 1/2 x 1 1/4	40 x 32	2.31	.70	4 x 3	100 x 80	4.38	3.9
						58.7	.32			111.3	1.8
				1 1/2 x 1	40 x 25	2.31	.62	4 x 2 1/2	100 x 65	4.38	3.7
						58.7	.28			111.3	1.7
				1 1/2 x 3/4	40 x 20	2.31	.59	4 x 2	100 x 50	4.38	3.6
						58.7	.27			111.3	1.6
				1 1/2 x 1/2	40 x 15	2.31	.55	4 x 1 1/2	100 x 40	4.38	3.3
						58.7	.25			111.3	1.5
				2 x 1 1/2	50 x 40	2.81	1.0	*These sizes not specified in ASME/ANSI B16.3			
						71.4	.46				
				2 x 1 1/4	50 x 32	2.81	.97				
						71.4	.44				

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

POUNDS
KILOGRAMS
INCHES
MILLIMETRES

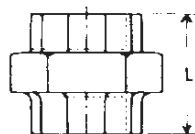
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COUPLINGS

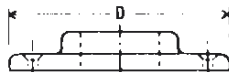
CLASS 150 - ASTM A 197



*UNION



CAP



FLOOR FLANGE



*UNIONS				CAPS (ANSI B16.3)				FLOOR FLANGES			
Size			Approx. Weight	Size		H MIN	Approx. Weight	Size		D	Approx. Weight
NPS	DNL			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.

INCHES	POUNDS
MILLIMETRES	KILOGRAMS

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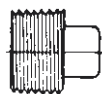


COUPLINGS

CLASS 150 - ASTM A 197



HEX HEAD
BUSHING



SQUARE HEAD
PLUG



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		.02	2 x 1		.81	*1/8		.02
	6 x 3	.01		50 x 25	.37		3	.01
3/8 x 1/8		.02	2 x 1 1/2		.70	*1/4		.02
	10 x 3	.01		50 x 40	.32		6	.01
3/8 x 1/4		.04	2 1/2 x 1		1.5	3/8		.04
	10 x 6	.02		65 x 25	.70		10	.02
1/2 x 1/8		.09	2 1/2 x 1 1/4		1.5	1/2		.09
	15 x 3	.04		65 x 32	.67		15	.04
1/2 x 1/4		.07	2 1/2 x 1 1/2		1.3	3/4		.11
	15 x 6	.03		65 x 40	.58		20	.05
1/2 x 3/8		.07	2 1/2 x 2		1.1	1		.15
	15 x 10	.03		65 x 50	.49		25	.07
3/4 x 1/8		.15	3 x 1		2.2	1 1/4		.26
	2 x 3	.07		80 x 25	1.0		32	.13
3/4 x 1/4		.15	3 x 1 1/4		2.2	1 1/2		.35
	20 x 6	.07		80 x 32	.99		40	.16
3/4 x 3/8		.13	3 x 1 1/2		2.2	2		.55
	20 x 10	.06		80 x 40	.99		50	.26
3/4 x 1/2		.11	3 x 2		2.0	2 1/2		.97
	20 x 15	.05		80 x 50	.91		65	.44
1 x 1/4		.26	3 x 2 1/2		1.5	3		1.4
	25 x 6	.12		80 x 65	.66		80	.63
1 x 3/8		.24	4 x 1		4.0	3 1/2		2.5
	2 x 10	.11		100 x 25	1.8		90	1.1
1 x 1/2		.22	4 x 1 1/4		4.0	4		2.5
	25 x 15	.10		100 x 32	1.8		100	1.1
1 x 3/4		.20	4 x 1 1/2		4.0	5		5.4
	25 x 20	.09		100 x 40	1.8		125	2.4
1 1/4 x 1/2		.37	4 x 2		3.7	6		7.5
	32 x 15	.17		100 x 50	1.7		150	3.4
1 1/4 x 3/4		.35	4 x 2 1/2		3.3			
	32 x 20	.16		100 x 65	1.5			
1 1/4 x 1		.29	4 x 3		3.1			
	32 x 25	.13		100 x 80	1.4			
1 1/2 x 3/4		.53						
	40 x 20	.24						
1 1/2 x 1		.49						
	40 x 25	.22						
1 1/2 x 1 1/4		.31						
	40 x 32	.14						
2 x 1/2		.84						
	50 x 15	.38						
2 x 3/4		.86						
	50 x 20	.39						

INCHES	POUNDS
MILLIMETRES	KILOGRAMS

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

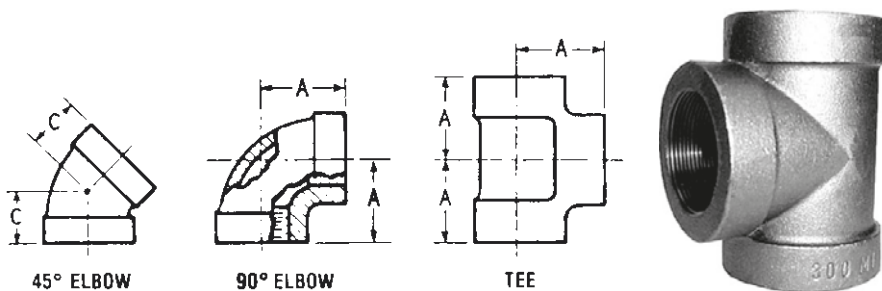
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TEE

CLASS 150 - ASTM A 197



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		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

INCHES
MILLIMETRES

POUNDS
KILOGRAMS

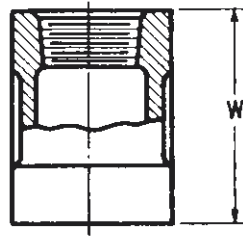
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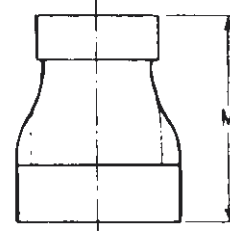


COUPLINGS

CLASS 150 - ASTM A 197



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		1.75	.55
	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

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Aseguramos tu inversión garantizando que tus materiales cumplan con las certificaciones internacionales de calidad. Todos nuestros materiales incluyen certificado de calidad.