

B16.11 Forged Fittings



ROKE
Valves and Fittings

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SOCKET WELDING & THREADED FITTINGS

Pressure Ratings

These fittings shall be designated as pressure class 2000, 3000 and 6000 fittings for threading and pressure class 3000, 6000 and 9000 for socket-welding.

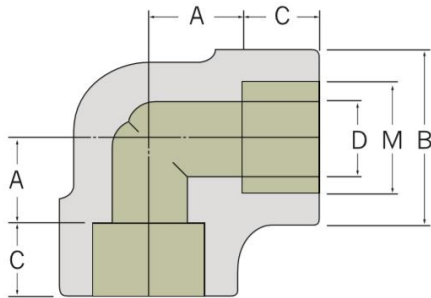
SOCKET WELDING FITTINGS	THREADED FITTINGS
 90° Elbow	 90° Elbow
 45° Elbow	 45° Elbow
 Tee	 Tee
 Cross	 Cross
 Coupling	 Full Coupling
 Reducer	 Half Coupling
 Cap	 Cap
 Union	 Union
 Socket-Outlet	 Hex Head Plug
 Welding-Outlet	 S.Q Head Plug
 Thread-Outlet	 Round Head Plug
 Nipple-Outlet	 Hex Head Bushing
	 Boss
	 Insert
	 Nipple
	 Swage Nipple

Table 1 : Socket Welding & Threaded Fitting Bore

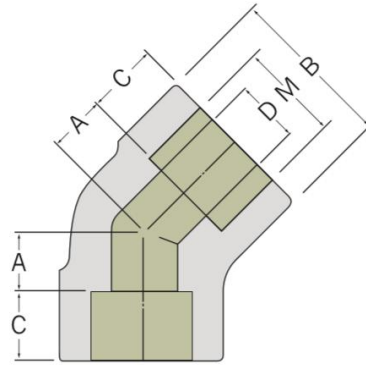
Size	ASME B16.11		JIS B2316	
	Socket Welding (M)	Threaded (T)	Socket Welding (M)	Threaded (T)
1/8	10.65 – 10.90	NPT 1/8	11.0	PT 1/8
1/4	14.10 – 14.35	NPT 1/4	14.3	PT 1/4
3/8	17.55 – 17.80	NPT 3/8	17.8	PT 3/8
1/2	21.70 – 21.95	NPT 1/2	22.2	PT 1/2
3/4	27.05 – 27.30	NPT 3/4	27.7	PT 3/4
1	33.80 – 34.05	NPT 1	34.5	PT 1
1.1/4	42.55 – 42.80	NPT 1.1/4	43.2	PT 1.1/4
1.1/2	48.65 – 48.90	NPT 1.1/2	49.1	PT 1.1/2
2	61.10 – 61.35	NPT 2	61.1	PT 2
2.1/2	73.80 – 74.20	NPT 2.1/2	77.1	PT 2.1/2
3	89.80 – 90.15	NPT 3	90.0	PT 3
4	115.45 – 115.80	NPT 4	115.4	PT 4

SOCKET WELDING FITTINGS

90° Elbow



45° Elbow



3000 LB

3000 LB

Size	M	B	D	A	C	Weight(Kg)	Size	M	B	D	A	C	Weight(Kg)
1/4	ASM B16.11 or JIS B2316	23.0	9.4	11.0	10	0.13	1/4	ASM B16.11 or JIS B2316	23.0	9.4	8.0	10	0.13
3/8		26.5	12.7	13.5	12	0.13	3/8		26.5	12.7	8.0	12	0.13
1/2		34.0	16.1	15.5	13	0.23	1/2		34.0	16.1	11.0	13	0.23
3/4		38.5	21.4	19.0	14	0.31	3/4		38.5	21.4	13.0	14	0.31
1		46.5	27.2	22.5	16	0.60	1		46.5	27.2	14.0	16	0.60
1.1/4		56.5	35.5	27.0	18	0.71	1.1/4		56.5	35.5	17.5	18	0.71
1.1/2		63.5	41.2	32.0	19	0.85	1.1/2		63.5	41.2	20.5	19	0.85
2		76.0	52.7	38.0	22	1.48	2		76.0	52.7	25.5	22	1.48
2.1/2		92.0	65.9	41.0	26	2.46	2.1/2		92.0	65.9	28.5	26	2.46
3		110	78.1	57.0	29	4.65	3		110	78.1	32.0	29	4.65
4		146	102	66.5	33	9.43	4		146	102	41.0	33	9.43

6000 LB

6000 LB

Size	M	B	D	A	C	Weight(Kg)	Size	M	B	D	A	C	Weight(Kg)
1/2	ASM B16.11 or JIS B2316	38.5	12.3	19.0	14	0.43	1/2	ASM B16.11 or JIS B2316	38.5	12.3	12.5	14	0.43
3/4		46.5	16.2	22.5	16	0.65	3/4		46.5	16.2	14.0	16	0.65
1		56.5	21.2	27.0	18	1.02	1		56.5	21.2	17.5	18	1.02
1.1/4		63.5	30.0	32.0	19	1.45	1.1/4		63.5	30.0	20.5	19	1.45
1.1/2		76.0	34.4	38.0	22	2.38	1.1/2		76.0	34.4	25.5	22	2.38
2		84.0	43.0	41.0	26	3.76	2		84.0	43.0	28.5	26	3.76
2.1/2		110	57.3	57.0	29	6.12	2.1/2		110	57.3	32.0	29	6.12
3		121	66.9	66.5	33	8.77	3		121	66.9	41.0	33	8.77
4		152	87.3	70.0	45	14.30	4		152	87.3	54.0	45	14.30

9000 LB

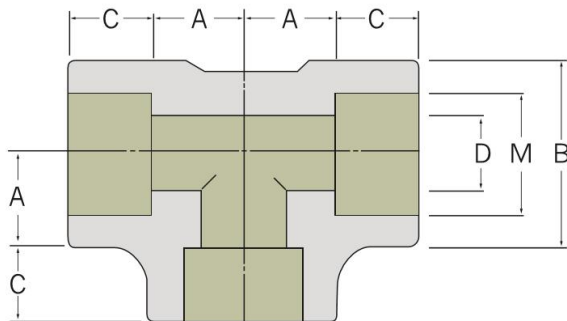
9000 LB

Size	M	B	D	A	C	Weight(Kg)	Size	M	B	D	A	C	Weight(Kg)
1/2	ASM B16.11 or JIS B2316	46.5	6.7	25.5	16	0.51	1/2	ASM B16.11 or JIS B2316	46.5	6.7	15.5	16	0.51
3/4		56.5	11.6	28.5	18	0.78	3/4		56.5	11.6	19.0	18	0.78
1		63.5	15.8	32.0	19	1.23	1		63.5	15.8	20.5	19	1.23
1.1/4		76.0	23.3	35.0	22	1.81	1.1/4		76.0	23.3	22.5	22	1.81
1.1/2		84.0	28.2	38.0	26	2.98	1.1/2		84.0	28.2	25.5	26	2.98
2		110	38.3	54.0	29	4.70	2		110	38.3	28.5	29	4.70
2.1/2		121	48.3	66.0	33	10.52	2.1/2		121	48.3	32.0	33	10.52
3		146	58.7	70.0	36	13.10	3		146	58.7	41.0	36	13.10

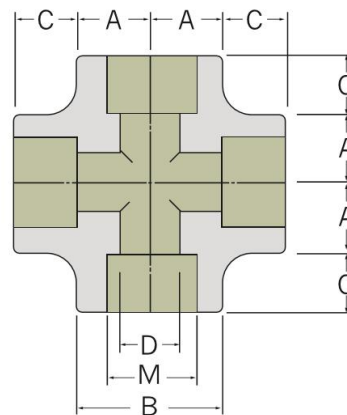
Notes (1) For the 'Bore'(M) means standard pipe outside diameter. Dimensional See Table 1, ASME B16.11 or JIS B2316
 (2) Dimensions are in millimeters.

SOCKET WELDING FITTINGS

Tee



Cross



3000 LB

3000 LB

Size	M	B	D	A	C	Weight(Kg)	Size	M	B	D	A	C	Weight(Kg)
1/4	ASM B16.11 or JIS B2316	23.0	9.4	11.0	10	0.16	1/4	ASM B16.11 or JIS B2316	23.0	9.4	11.0	10	0.18
3/8		26.5	12.7	13.5	12	0.16	3/8		26.5	12.7	13.5	12	0.18
1/2		34.0	16.1	15.5	13	0.18	1/2		34.0	16.1	15.5	13	0.37
3/4		38.5	21.4	19.0	14	0.40	3/4		38.5	21.4	19.0	14	0.52
1		46.5	27.2	22.5	16	0.64	1		46.5	27.2	22.5	16	0.68
1.1/4		56.5	35.5	27.0	18	0.92	1.1/4		56.5	35.5	27.0	18	1.03
1.1/2		63.5	41.2	32.0	19	1.14	1.1/2		63.5	41.2	32.0	19	1.40
2		76.0	52.7	38.0	22	1.71	2		76.0	52.7	38.0	22	2.33
2.1/2		92.0	65.9	41.0	26	3.42	2.1/2		92.0	65.9	41.0	26	7.48
3		110	78.1	57.0	29	5.68	3		110	78.1	57.0	29	10.44
4		146	102	66.5	33	12.25	4		146	102	66.5	33	18.15

6000 LB

6000 LB

Size	M	B	D	A	C	Weight(Kg)	Size	M	B	D	A	C	Weight(Kg)
1/2	ASM B16.11 or JIS B2316	38.5	12.3	19.0	14	0.63	1/2	ASM B16.11 or JIS B2316	38.5	12.3	19.0	14	0.68
3/4		46.5	16.2	22.5	16	0.91	3/4		46.5	16.2	22.5	16	1.12
1		56.5	21.2	27.0	18	1.52	1		56.5	21.2	27.0	18	1.74
1.1/4		63.5	30.0	32.0	19	1.71	1.1/4		63.5	30.0	32.0	19	2.38
1.1/2		76.0	34.4	38.0	22	2.95	1.1/2		76.0	34.4	38.0	22	3.76
2		84.0	43.0	41.0	26	3.76	2		84.0	43.0	41.0	26	7.86
2.1/2		110	57.3	57.0	29	8.73	2.1/2		110	57.3	57.0	29	10.60
3		121	66.9	66.5	33	10.66	3		121	66.9	66.5	33	13.60
4		152	87.3	70.0	45	19.10	4		152	87.3	70.0	45	25.80

9000 LB

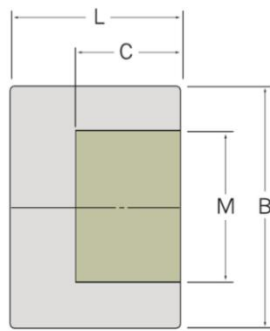
9000 LB

Size	M	B	D	A	C	Weight(Kg)	Size	M	B	D	A	C	Weight(Kg)
1/2	ASM B16.11 or JIS B2316	46.5	6.7	25.5	16	0.78	1/2	ASM B16.11 or JIS B2316	46.5	6.7	25.5	16	1.61
3/4		56.5	11.6	28.5	18	1.34	3/4		56.5	11.6	28.5	18	2.12
1		63.5	15.8	32.0	19	1.88	1		63.5	15.8	32.0	19	3.90
1.1/4		76.0	23.3	35.0	22	2.14	1.1/4		76.0	23.3	35.0	22	6.30
1.1/2		84.0	28.2	38.0	26	3.70	1.1/2		84.0	28.2	38.0	26	9.30
2		110	38.3	54.0	29	4.64	2		110	38.3	54.0	29	18.70
2.1/2		121	48.3	66.0	33	10.90	2.1/2		121	48.3	66.0	33	25.60
3		146	58.7	70.0	36	13.40	3		146	58.7	70.0	36	33.70

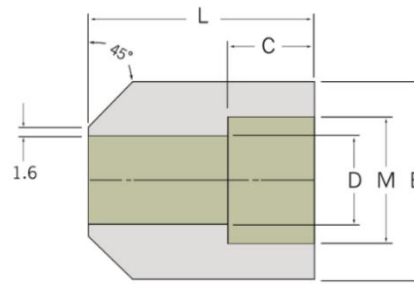
Notes (1) For the 'Bore'(M) means standard pipe outside diameter. Dimensional See Table 1, ASME B16.11 or JIS B2316
(2) Dimensions are in millimeters.

SOCKET WELDING FITTINGS

Cap



Boss



3000 LB

Size	M	B	L	C	Weight(Kg)		Size	M	B	D	L	C	Weight(Kg)	
1/4	ASM B16.11 or JIS B2316	22.0	20	10	0.05		1/4	ASM B16.11 or JIS B2316	22.0	9.4	30	10	0.09	
3/8		26.0	20	10	0.8		3/8		26.0	12.7	30	10	0.14	
1/2		32.0	20	10	0.10		1/2		32.0	16.1	33	10	0.24	
3/4		38.0	25	13	0.18		3/4		38.0	21.4	35	13	0.28	
1		46.0	27	13	0.4		1		46.0	27.2	43	13	0.41	
1.1/4		55.0	30	13	0.35		1.1/4		55.0	35.5	46	13	0.44	
1.1/2		63.0	30	13	0.62		1.1/2		63.0	41.2	50	13	0.63	
2		75.0	36	16	0.88		2		75.0	52.7	57	16	1.10	
2.1/2		95.0	42	16	1.52									
3		110	46	16	2.22									
4		140	55	19	4.42									

3000 LB

6000 LB

Size	M	B	L	C	Weight(Kg)		Size	M	B	D	L	C	Weight(Kg)	
1/4	ASM B16.11 or JIS B2316	35.0	9.6	10	0.17		1/4	ASM B16.11 or JIS B2316	35.0	12.3	22.4	10	0.20	
3/8		42.0	9.6	13	0.25		3/8		42.0	16.2	23.9	13	0.29	
1/2		50.0	12.7	13	0.42		1/2		50.0	21.2	28.4	13	0.49	
3/4		60.0	12.7	13	0.53		3/4		60.0	30.0	30.2	13	0.58	
1		68.0	12.7	13	0.67		1		68.0	34.4	31.8	13	0.65	
1.1/4		85.0	19.1	16	1.24		1.1/4		85.0	43.0	41.1	16	1.73	
1.1/2		100	19.1	16	1.65		1.1/2		63.0	41.2	50	13	0.63	
2		115	19.1	16	2.75		2		75.0	52.7	57	16	1.10	
2.1/2		160	19.1	19	4.68									
3		110	46	16	2.22									
4		140	55	19	4.42									

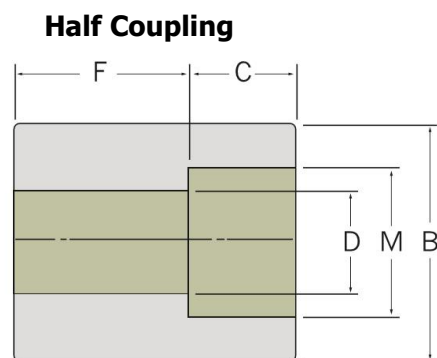
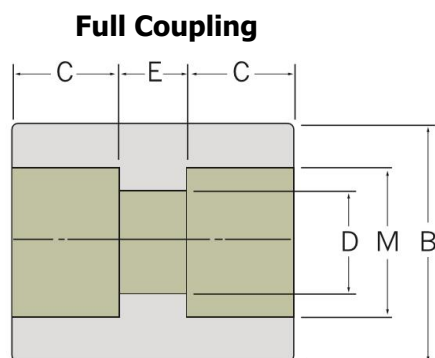
6000 LB

9000 LB

Size	M	B	E	C	Weight(Kg)
1/2	ASM B16.11 or JIS B2316	42.0	9.6	10	0.27
3/4		48.0	9.6	13	0.33
1		60.0	12.7	13	0.52
1.1/4		70.0	12.7	13	0.82
1.1/2		75.0	12.7	13	0.94
2		90.0	19.1	16	1.56
2.1/2		110	19.1	16	2.43
3		130	19.1	16	3.72
4		160	19.1	19	5.14

Notes (1) For the 'Bore'(M) means standard pipe outside diameter. Dimensional See Table 1, ASME B16.11 or JIS B2316
(2) Dimensions are in millimeters.

SOCKET WELDING FITTINGS



3000 LB

3000 LB

Size	M	B	D	E	C	Weight(Kg)	Size	M	B	D	F	C	Weight(Kg)
1/4	ASM B16.11 or JIS B2316	22.0	9.4	6.4	10	0.05	1/4	ASM B16.11 or JIS B2316	22.0	9.4	15.7	10	0.06
3/8		26.0	12.7	6.4	10	0.12	3/8		26.0	12.7	17.5	10	0.07
1/2		32.0	16.1	9.6	10	0.12	1/2		32.0	16.1	22.4	10	0.14
3/4		38.0	21.4	9.6	13	0.18	3/4		38.0	21.4	23.9	13	0.21
1		46.0	27.2	12.7	13	0.26	1		46.0	27.2	28.4	13	0.32
1.1/4		55.0	35.5	12.7	13	0.35	1.1/4		55.0	35.5	30.2	13	0.43
1.1/2		63.0	41.2	12.7	13	0.47	1.1/2		63.0	41.2	31.8	13	0.60
2		75.0	52.7	19.1	16	0.81	2		75.0	52.7	41.1	16	1.28
2.1/2		95.0	65.9	19.1	16	1.25	2.1/2		95.0	65.9	42.9	16	1.50
3		110	78.1	19.1	16	1.53	3		110	78.1	44.5	16	2.20
4		140	102	19.1	19	2.91	4		140	102	47.7	19	4.25

6000 LB

6000 LB

Size	M	B	D	E	C	Weight(Kg)	Size	M	B	D	F	C	Weight(Kg)
1/2	ASM B16.11 or JIS B2316	35.0	12.3	9.6	10	0.17	1/2	ASM B16.11 or JIS B2316	35.0	12.3	22.4	10	0.20
3/4		42.0	16.2	9.6	13	0.25	3/4		42.0	16.2	23.9	13	0.29
1		50.0	21.2	12.7	13	0.42	1		50.0	21.2	28.4	13	0.49
1.1/4		60.0	30.0	12.7	13	0.53	1.1/4		60.0	30.0	30.2	13	0.58
1.1/2		68.0	34.4	12.7	13	0.67	1.1/2		68.0	34.4	31.8	13	0.65
2		85.0	43.0	19.1	16	1.24	2		85.0	43.0	41.1	16	1.73
2.1/2		100	57.3	19.1	16	1.65	2.1/2		100	57.3	42.9	16	2.25
3		115	66.9	19.1	16	2.75	3		115	66.9	44.5	16	3.42
4		160	87.3	19.1	19	4.68	4		160	87.3	47.7	19	5.74

9000 LB

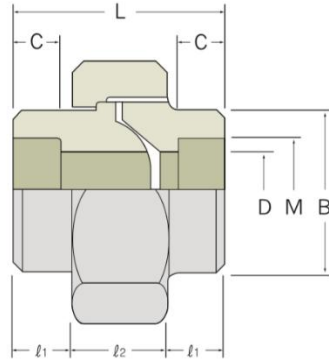
9000 LB

Size	M	B	D	E	C	Weight(Kg)	Size	M	B	D	F	C	Weight(Kg)
1/2	ASM B16.11 or JIS B2316	42.0	6.7	9.6	10	0.27	1/2	ASM B16.11 or JIS B2316	42.0	6.7	22.4	10	0.32
3/4		48.0	11.6	9.6	13	0.33	3/4		48.0	11.6	23.9	13	0.39
1		60.0	15.8	12.7	13	0.52	1		60.0	15.8	28.4	13	0.64
1.1/4		70.0	23.3	12.7	13	0.82	1.1/4		70.0	23.3	30.2	13	0.98
1.1/2		75.0	28.2	12.7	13	0.94	1.1/2		75.0	28.2	31.8	13	1.18
2		90.0	38.3	19.1	16	1.56	2		90.0	38.3	41.1	16	1.99
2.1/2		110	48.3	19.1	16	2.43	2.1/2		110	48.3	42.9	16	3.22
3		130	58.7	19.1	16	3.72	3		130	58.7	44.5	16	4.51
4		160	80.1	19.1	19	5.14	4		160	80.1	47.7	19	7.62

Notes (1) For the 'Bore'(M) means standard pipe outside diameter. Dimensional See Table 1, ASME B16.11 or JIS B2316
(2) Dimensions are in millimeters.

SOCKET WELDING FITTINGS

R.J Union



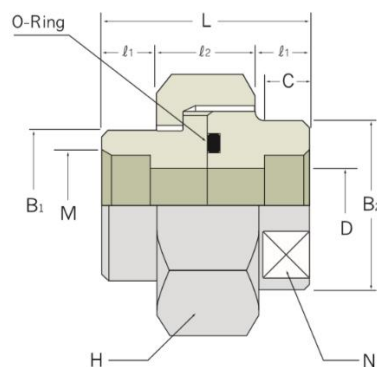
3000 LB

Size	M	B	l1	l2	L	C	D	H (Hex)	Weight(Kg)
1/4	ASM B16.11 or JIS B2316	21	11.5	18	41	10	9.4	35	0.19
3/8		25	14	18	46	10	12.7	40	0.25
1/2		32	15	21	51	10	16.1	46	0.43
3/4		40	17	23	57	13	21.4	58	0.62
1		48	19.5	25	64	13	27.2	65	1.05
1.1/4		55	22.5	27	72	13	35.5	76	1.15
1.1/2		63.5	24	30	78	13	41.2	83	1.54
2		76	26	36	88	16	52.7	103	3.10
2.1/2		95	34	42	110	18	65.9	125	5.16
3		116	37.5	45	120	22.5	78.1	142	7.12
4		148	45	50	140	25	102	175	12.40

6000 LB

Size	M	B	l1	l2	L	C	D	H (Hex)	Weight(Kg)
1/2	ASM B16.11 or JIS B2316	40	17	23	57	13	12	56	0.62
3/4		44.5	19.5	25	64	13	15.8	65	0.94
1		51	22.5	27	72	13	21	74	1.98
1.1/4		57.2	24	30	78	16	29.7	83	1.98
1.1/2		71.5	26	36	88	16	34.2	103	2.76
2		90	34	42	110	16	43.1	124	5.05
2.1/2		105	35	45	120	18	54	150	6.88
3		125	45	59	140	22	67.7	175	10.80

O-Ring Union



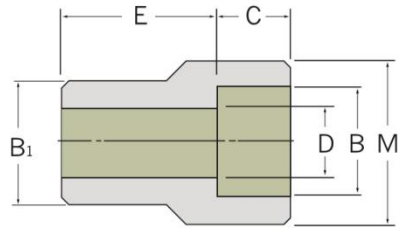
3000 LB

Size	M	B1	B2	D	C	l1	l2	L	N	H(Hex)	O-ring	Weight(Kg)
1/2	ASM B16.11 or JIS B2316	22	24	10	10	10	18	38	21	35	P18	0.16
3/4		27	30	12	10	10	18	38	26	41	P20	0.23
1		32	35	16	10	12	20	44	32	46	G25	0.33
1.1/4		38	42	20	13	12	26	50	38	54	G30	0.54
1.1/2		47	52	25	13	15	26	56	46	63	G35	0.79
2		56	60	32	13	15	30	60	54	77	G45	1.12
2.1/2		63	68	38	13	18	36	72	63	80	G50	1.55
3		76	82	48	17	18	36	72	77	95	G65	2.10

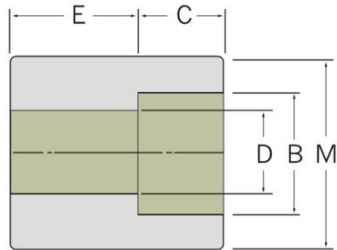
SOCKET WELDING FITTINGS

Reducing Insert

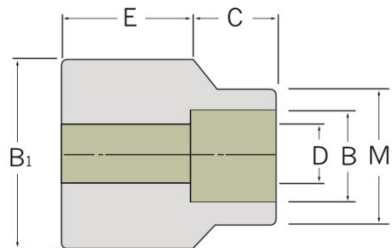
Type 1



Type 2



Type 3



3000 LB

Size	Type	M	B1	B	C (min)	E	L	D	Weight (Kg)
3/8-1/4	1	22.2	ASM B16.11 or JIS B2316	ASM B16.11 or JIS B2316	9.6	21	16	9.4	0.05
1/2-1/4	2	-			9.6	15	-	9.4	0.06
1/2-3/8	1	25.4			9.6	24	20	12.7	0.09
3/4-1/4	3	-			9.6	19	7	9.4	0.11
3/4-3/8	2	-			9.6	19	-	12.7	0.69
3/4-1/2	1	31.8			9.6	26	23	16.1	0.15
1 - 3/8	3	25.4			9.6	22	7	12.7	0.16
1 - 1/2	2	-			9.6	22	-	16.1	0.19
1 - 3/4	1	38.1			12.7	29	24.5	21.4	0.21
1.1/4-1/2	3	31.8			9.6	24	8	16.1	0.28
1.1/4-3/4	2	-			12.7	24	-	21.4	0.29
1.1/4 - 1	1	46			12.7	32	27	27.2	0.44
1.1/2-3/4	3	38.1			12.7	26	8	21.4	0.35
1.1/2 - 1	2	-			12.7	26	-	27.2	0.39
1.1/2-1.1/4	1	55			12.7	35	29	35.5	0.47
2 - 1	3	46			12.7	29	8	27.2	0.62
2 - 1.1/4	2	-			12.7	29	-	35.5	0.65
2 - 1.1/2	1	65			12.7	37	29	41.2	0.67
2.1/2-1.1/4	3	55			12.7	35	8	35.5	1.19
2.1/2-1.1/2	3	65			12.7	35	8	41.2	1.12
2.1/2 - 2	1	76			15.9	39	30	52.7	1.21
3 - 1.1/2	3	65			12.7	39	8	41.2	1.72
3 - 2	3	75			15.9	39	10	52.7	1.55
3 - 2.1/2	1	95			15.9	51	51	65.9	1.83

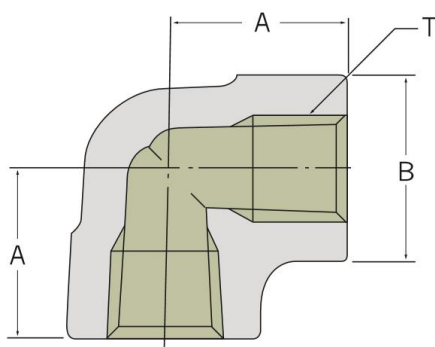
6000 LB

Size	Type	M	B1	B	C (min)	E	L	D	Weight (Kg)
3/4-1/2	1	38.1	ASM B16.11 or JIS B2316	ASM B16.11 or JIS B2316	12.3	39	23	12.3	0.32
1 - 1/2	1	38.1			12.3	38	24	12.3	0.36
1 - 3/4	1	46			16.2	43	26	16.2	0.53
1.1/4-1/2	2	-			12.3	29	-	12.3	0.42
1.1/4-3/4	1	46			16.2	40	28	16.2	0.56
1.1/4 - 1	1	55			21.2	45	28	21.2	0.77
1.1/2-3/4	2	-			16.2	35	-	16.2	0.62
1.1/2 - 1	1	55			21.2	38	28	21.2	0.73
1.1/2-1.1/4	1	62			29.9	52	32	29.9	0.96
2 - 1	3	-			21.2	43	8	21.2	1.03
2 - 1.1/4	1	62			29.9	54	34	29.9	1.14
2 - 1.1/2	1	75			34.4	63	34	34.4	0.92
2.1/2-1.1/4	3	62			29.9	46	8	29.9	1.49
2.1/2-1.1/2	2	-			34.4	46	-	34.4	1.88
2.1/2 - 2	1	95			43.1	73	38	43.1	2.92
3 - 1.1/2	3	75			34.4	50	8	34.4	2.38
3 - 2	2	95			43.1	70	-	43.1	3.32
3 - 2.1/2	1	110			57.3	83	38	57.3	3.57

Notes (1) For the 'Bore'(M) means standard pipe outside diameter. Dimensional See Table 1, ASME B16.11 or JIS B2316
(2) Dimensions are in millimeters.

THREADED FITTINGS

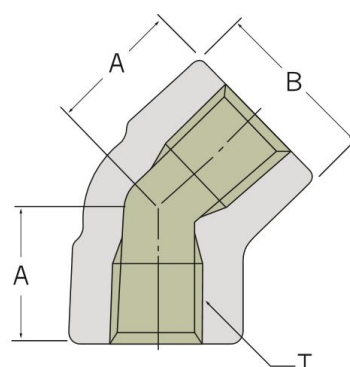
90°Elbow



2000 LB

Size T	B	A	Weight(Kg)
1/4	23.0	21	0.13
3/8	26.5	25	0.13
1/2	34.0	28	0.23
3/4	38.5	33	0.36
1	46.5	38	0.56
1.1/4	56.5	44	0.95
1.1/2	63.5	51	1.12
2	76.0	60	1.96
2.1/2	92.0	76	3.25
3	110	86	5.64
3.1/2	121	95	6.92
4	146	106	10.43

45°Elbow



2000 LB

Size T	B	A	Weight(Kg)
1/4	23.0	18	0.13
3/8	26.5	19	0.13
1/2	34.0	22	0.23
3/4	38.5	25	0.32
1	46.5	28	0.45
1.1/4	56.5	33	0.76
1.1/2	63.5	35	1.06
2	76.0	43	1.49
2.1/2	92.0	52	2.46
3	110	64	4.05
3.1/2	121	64	5.22
4	146	79	8.75

3000 LB

Size T	B	A	Weight(Kg)
1/4	26.5	25	0.13
3/8	34.0	28	0.24
1/2	38.5	33	0.39
3/4	46.5	38	0.57
1	56.5	44	0.99
1.1/4	63.5	51	1.26
1.1/2	76.0	60	2.13
2	92.0	76	3.52
2.1/2	110	86	5.46
3	121	95	7.98
3.1/2	146	106	11.23
4	152	114	13.50

3000 LB

Size T	B	A	Weight(Kg)
1/4	26.5	19	0.13
3/8	34.0	22	0.24
1/2	38.5	25	0.39
3/4	46.5	28	0.52
1	56.5	33	0.99
1.1/4	63.5	35	1.23
1.1/2	76.0	43	2.13
2	92.0	52	13.52
2.1/2	110	64	5.46
3	121	64	6.62
3.1/2	146	64	8.64
4	152	79	11.75

6000 LB

Size T	B	A	Weight(Kg)
3/8	38.5	33	0.40
1/2	46.5	38	0.68
3/4	56.5	44	1.13
1	63.5	51	1.59
1.1/4	76.0	60	2.60
1.1/2	92.0	76	4.32
2	110	86	7.33
2.1/2	121	95	9.25
3	146	106	12.10
3.1/2	152	114	14.50
4	152	114	14.10

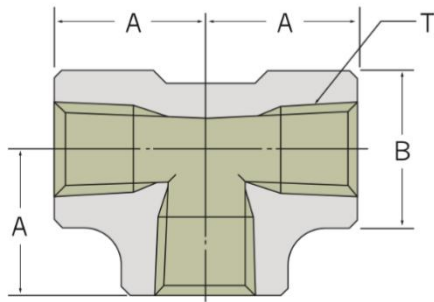
6000 LB

Size T	B	A	Weight(Kg)
3/8	38.5	25	0.40
1/2	46.5	28	0.68
3/4	56.5	33	1.13
1	63.5	35	1.59
1.1/4	76.0	43	2.60
1.1/2	92.0	52	4.32
2	110	64	5.93
2.1/2	121	64	7.62
3	146	64	11.44
3.1/2	152	79	13.25
4	152	79	11.8

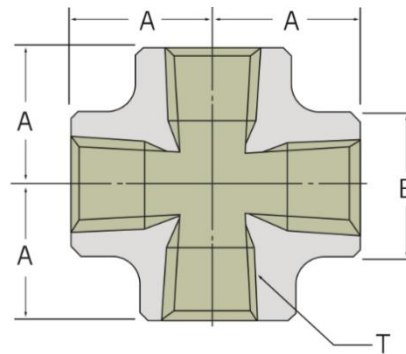
Notes (1) For the 'Bore'(M) means standard pipe outside diameter. Dimensional See Table 1, ASME B16.11 or JIS B2316
 (2) Dimensions are in millimeters.

THREADED FITTINGS

Tee



Cross



2000 LB

Size T	B	A	Weight(Kg)
1/4	23.0	21	0.18
3/8	26.5	25	0.18
1/2	34.0	28	0.26
3/4	38.5	33	0.43
1	46.5	38	0.66
1.1/4	56.5	44	0.95
1.1/2	63.5	51	1.25
2	76.0	60	2.10
2.1/2	92.0	76	3.95
3	110	86	5.98
3.1/2	121	95	7.42
4	146	106	12.40

2000 LB

Size T	B	A	Weight(Kg)
1/4	23.0	21	0.22
3/8	26.5	25	0.22
1/2	34.0	28	0.37
3/4	38.5	33	0.52
1	46.5	38	0.79
1.1/4	56.5	44	1.28
1.1/2	63.5	51	1.62
2	76.0	60	2.64
2.1/2	92.0	76	4.65
3	110	86	7.10
3.1/2	121	95	8.86
4	146	106	14.80

3000 LB

Size T	B	A	Weight(Kg)
1/4	26.5	25	0.19
3/8	34.0	28	0.32
1/2	38.5	33	0.52
3/4	46.5	38	0.73
1	56.5	44	1.26
1.1/4	63.5	51	1.65
1.1/2	76.0	60	2.81
2	92.0	76	4.35
2.1/2	110	86	6.26
3	121	95	10.10
3.1/2	146	106	14.60
4	152	114	16.50

3000 LB

Size T	B	A	Weight(Kg)
1/4	26.5	25	0.23
3/8	34.0	28	0.40
1/2	38.5	33	0.63
3/4	46.5	38	0.93
1	56.5	44	1.47
1.1/4	63.5	51	1.78
1.1/2	76.0	60	3.42
2	92.0	76	5.50
2.1/2	110	86	7.66
3	121	95	11.20
3.1/2	146	106	16.70
4	152	114	19.10

6000 LB

Size T	B	A	Weight(Kg)
3/8	38.5	33	0.59
1/2	46.5	38	0.96
3/4	56.5	44	1.50
1	63.5	51	2.10
1.1/4	76.0	60	3.30
1.1/2	92.0	76	5.72
2	110	86	9.64
2.1/2	121	95	13.40
3	146	106	16.20
3.1/2	152	114	18.30
4	152	114	16.80

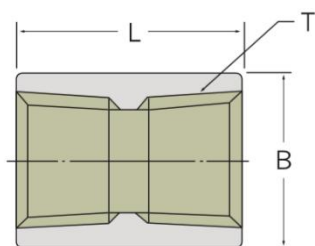
6000 LB

Size T	B	A	Weight(Kg)
3/8	38.5	33	0.68
1/2	46.5	38	1.12
3/4	56.5	44	1.92
1	63.5	51	2.90
1.1/4	76.0	60	4.20
1.1/2	92.0	76	6.68
2	110	86	9.97
2.1/2	121	95	16.10
3	146	106	19.90
3.1/2	152	114	28.10
4	152	114	24.8

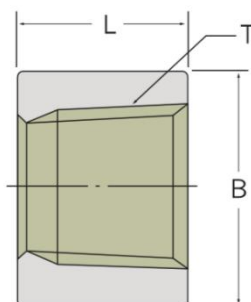
Notes (1) For the 'Bore'(M) means standard pipe outside diameter. Dimensional See Table 1, ASME B16.11 or JIS B2316
 (2) Dimensions are in millimeters.

THREADED FITTINGS

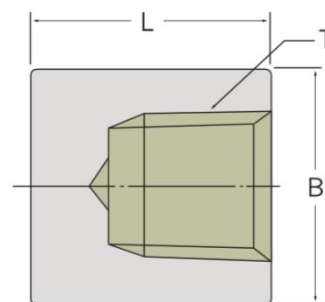
Full Coupling



Half Coupling



Cap



3000 LB

T Size	B	L	Weight (Kg)
1/4	22.0	35.1	0.05
3/8	26.0	38.1	0.07
1/2	32.0	48	0.15
3/4	38.0	51	0.22
1	46.0	61	0.42
1.1/4	55.0	67	0.72
1.1/2	63.0	80	1.08
2	75.0	86	1.42
2.1/2	95.0	92	2.57
3	110	108	3.85
3.1/2	140	114.3	5.75
4	152	121	6.38

3000 LB

T Size	B	L	Weight (Kg)
1/4	22.0	17.5	0.03
3/8	26.0	19	0.04
1/2	32.0	24	0.07
3/4	38.0	25.5	0.11
1	46.0	30.5	0.22
1.1/4	55.0	33.5	0.38
1.1/2	63.0	40	0.53
2	75.0	43	0.69
2.1/2	95.0	46	1.26
3	110	54	1.85
3.1/2	140	57.5	2.88
4	152	60.5	3.53

3000 LB

T Size	B	L	Weight (Kg)
1/4	22.0	25	0.05
3/8	26.0	25	0.08
1/2	32.0	32	0.12
3/4	38.0	37	0.21
1	46.0	41	0.32
1.1/4	55.0	44	0.61
1.1/2	63.0	44	0.74
2	75.0	48	1.08
2.1/2	95.0	60	2.29
3	110	65	3.85
3.1/2	140	68	4.54
4	152	68	6.38

6000 LB

T Size	B	L	Weight (Kg)
1/4	25	35	0.12
3/8	32	38	0.18
1/2	38.1	48	0.28
3/4	45	51	0.45
1	57	61	0.81
1.1/4	63.5	67	1.42
1.1/2	76	80	1.96
2	92	86	2.81
2.1/2	108	92	3.82
3	127	108	6.04
3.1/2	140	114.3	8.27
4	160	121	10.70

6000 LB

T Size	B	L	Weight (Kg)
1/4	25	17.5	0.06
3/8	32	19	0.09
1/2	38.1	24	0.14
3/4	45	25.5	0.23
1	57	30.5	0.37
1.1/4	63.5	33.5	0.71
1.1/2	76	40	0.92
2	92	43	1.23
2.1/2	108	46	1.86
3	127	54	2.97
3.1/2	140	57.5	4.15
4	160	60.5	54.0

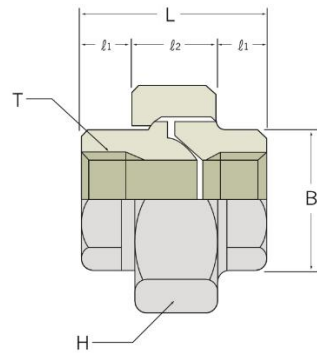
6000 LB

T Size	B	L	Weight (Kg)
1/4	25	27	0.10
3/8	32	27	0.14
1/2	38.1	33	0.25
3/4	45	38	0.36
1	57	43	0.71
1.1/4	63.5	46	0.81
1.1/2	76	48	1.29
2	92	51	2.18
2.1/2	108	64	2.72
3	127	68	4.95
3.1/2	140	70	6.86
4	160	75	9.25

Notes (1) For the 'Bore'(M) means standard pipe outside diameter. Dimensional See Table 1, ASME B16.11 or JIS B2316
 (2) Dimensions are in millimeters.

THREADED FITTINGS

R.J Union



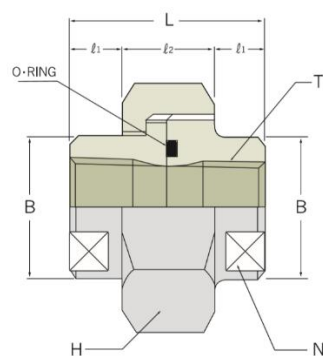
3000 LB

Size	B	I1	I2	L	H (Hex)	Weight(Kg)
1/4	21	11.5	18	41	35	0.19
3/8	25	14	18	46	40	0.25
1/2	32	15	21	51	46	0.43
3/4	40	17	23	57	58	0.62
1	48	19.5	25	64	65	1.05
1.1/4	55	22.5	27	72	76	1.15
1.1/2	63.5	24	30	78	83	1.54
2	76	26	36	88	103	3.10
2.1/2	95	34	42	110	125	5.16
3	116	37.5	45	120	142	7.12
4	148	45	50	140	175	12.40

6000 LB

Size	B	I1	I2	L	H (Hex)	Weight(Kg)
1/2	40	17	23	57	56	0.62
3/4	44.5	19.5	25	64	65	0.94
1	51	22.5	27	72	74	1.98
1.1/4	57.2	24	30	78	83	1.98
1.1/2	71.5	26	36	88	103	2.76
2	90	34	42	110	124	5.05
2.1/2	105	35	45	120	150	6.88
3	125	45	59	140	175	10.80

O-Ring Union

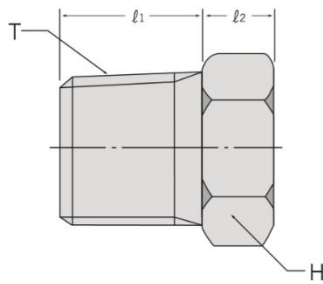


3000 LB

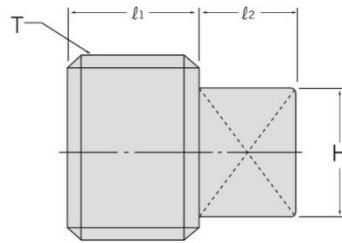
Size	B1	I1	I2	L	N	H(Hex)	O-ring	Weight(Kg)
1/2	22	10	18	38	21	35	P18	0.16
3/4	27	10	18	38	26	41	P20	0.23
1	32	12	20	44	32	46	G25	0.33
1.1/4	38	12	26	50	38	54	G30	0.54
1.1/2	47	15	26	56	46	63	G35	0.79
2	56	15	30	60	54	77	G45	1.12
2.1/2	63	18	36	72	63	80	G50	1.55
3	76	18	36	72	77	95	G65	2.10

THREADED FITTINGS

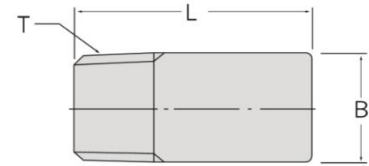
Hex. Head Plug



Square Plug



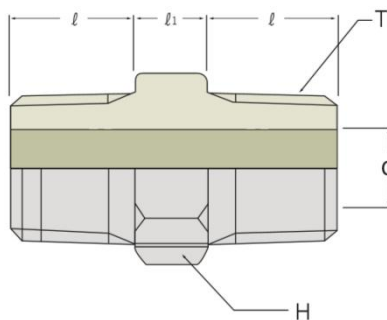
Round Plug



3000 LB/6000 LB

T Size	l1	l2	H (Hex)	Weight (Kg)	T Size	l1	l2	H (Hex)	Weight (Kg)	T Size	B	L	Weight (Kg)
1/8	11	6.3	11	0.03	1/8	9.9	6.6	7	0.01	1/8	10.3	35	0.06
1/4	13	6.3	14	0.03	1/4	13	6.6	9	0.02	1/4	13.5	41.3	0.06
3/8	14	8	19	0.06	3/8	13	7.9	12	0.03	3/8	17.5	41.3	0.09
1/2	18	8	22	0.08	1/2	15	9.9	14	0.06	1/2	21.4	44.5	0.17
3/4	19	10	27	0.14	3/4	16	11	17	0.09	3/4	27	44.5	0.19
1	21	10	36	0.22	1	20.1	13	19	0.14	1	33.4	50.8	0.34
1.1/4	22	14	46	0.51	1.1/4	21.1	15	24	0.26	1.1/4	42.9	50.8	0.38
1.1/2	24	16	50	0.62	1.1/2	21.1	16	27	0.40	1.1/2	48.4	50.8	0.71
2	25	18	63	1.02	2	23.1	18	32	0.68	2	60.3	63.5	1.36
2.1/2	32	19	76	1.76	2.1/2	27	20	38.1	1.04	2.1/2	73	70	2.18
3	40	21	99	2.66	3	29	21	42.9	1.32	3	88.9	70	3.46
3.1/2	41	22	103	3.72	3.1/2	30	22.2	47.6	2.06	3.1/2	101.6	76.2	4.25
4	42	32	117	5.90	4	32	25	63.5	3.28	4	114.3	76.2	5.86

Hex. Nipple

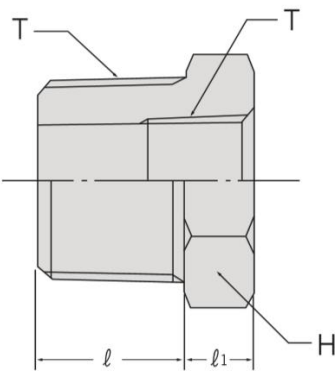


3000 LB/6000 LB

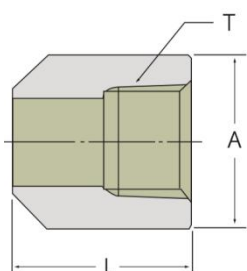
T Size	d	H (Hex)	l	l1	Weight (Kg)
1/8	4	12	10	6	0.15
1/4	7	17	14	8	0.25
3/8	9	19	15	8	0.38
1/2	12	22	19	9	0.68
3/4	16	27	21	10	0.12
1	20	36	24	11	0.24
1.1/4	28	46	27	12	0.38
1.1/2	32	50	27	14	0.56
2	40	65	31	16	0.98

THREADED FITTINGS

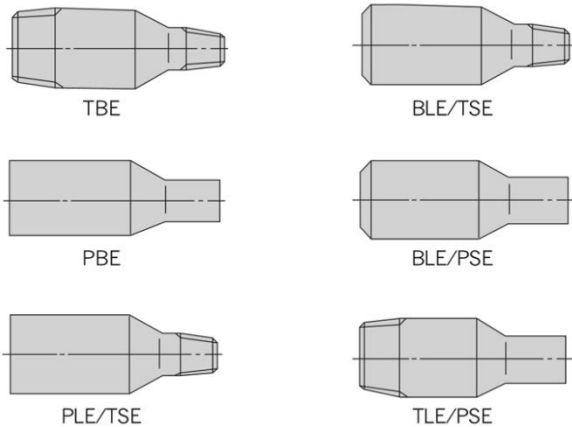
Hex. Bushing

3000 LB/6000LB	T	T1	H (Hex)	I1	I2	Weight (Kg)
	1/4	1/8	17	14	8	0.24
	3/8	1/4	19	15	15	0.30
	1/2	1/4	22	19	9	0.60
	1/2	3/8	22	19	16	0.76
	3/4	1/4	27	21	10	0.90
	3/4	3/8	27	21	10	0.90
	3/4	1/2	27	21	20	0.14
	1	1/4	36	24	11	0.16
	1	3/8	36	24	11	0.16
	1	1/2	36	24	11	0.16
	1	3/4	36	24	21	0.25
	1.1/4	1/2	46	27	12	0.36
	1.1/4	3/4	46	27	12	0.36
	1.1/4	1	46	27	12	0.36
	1.1/2	1/2	50	27	14	0.52
	1.1/2	3/4	50	27	14	0.52
	1.1/2	1	50	27	14	0.52
	1.1/2	1.1/4	50	27	27	0.62
	2	3/4	65	31	16	0.96
	2	1	65	31	16	0.96
	2	1.1/4	65	31	16	0.96
	2	1.1/2	65	31	29	1.38

Boss

3000 LB/6000LB	T	A	L	Weight (Kg)
	1/4	22	30	0.05
	3/8	26	30	0.07
	1/2	32	33	0.11
	3/4	38	35	0.18
	1	46	43	0.32
	1.1/4	55	46	0.43
	1.1/2	65	50	0.68
	2	75	57	1.05

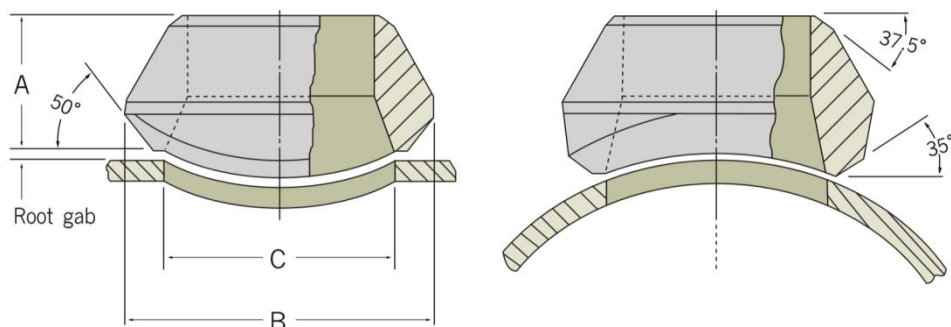
Swaged Nipple

3000 LB/6000LB	T	A	Length	Weight (Kg)
 TBE: Threaded both end BLE/TSE: Beveled large end Threaded small end PBE: Plain both end BLE/PSE: Beveled large end-Plain small end PLE/TSE: Plain large end-Threaded small end TLE/PSE: Threaded large end-Plain small end	1/2	1/8 to 3/8	70	0.76
	3/4	1/8 to 1/2	76	1.32
	1	1/4 to 1/2	89	0.24
	1.1/4	1/4 to 1	102	0.43
	1.1/2	1/4 to 1.1/4	114	0.64
	2	1/4 to 1.1/2	165	1.45
	2.1/2	1/4 to 2	178	2.48
	3	1/4 to 2.1/2	203	3.82
	3.1/2	1/4 to 3	203	5.16
	4	1/4 to 3.1/2	229	7.32

•Swaged Nipples are made from Forged Steel or Pipe

FORGED OUTLET FITTINGS

Weldolet



STD(Sch40), X-S(Sch80)

Outlet Size	A		B		C		Weight (Kg)	
	STD	X-S	STD	X-S	STD	X-S	STD	X-S
1/2	19.1	19.1	34.9	34.9	23.8	23.8	0.08	0.09
3/4	22.2	22.2	44.5	44.5	30.2	30.2	0.11	0.14
1	27	27	54	54	36.5	36.5	0.23	0.23
1.1/4	31.8	31.8	65.1	65.1	44.5	44.5	0.36	0.41
1.1/2	33.3	33.3	73	73	50.8	50.8	0.45	0.50
2	38.1	38.1	88.9	88.9	65.1	65.1	0.80	0.80
2.1/2	41.3	41.3	103.2	103.2	76.2	76.2	1.14	1.22
3	44.5	44.5	122.2	122.2	93.7	93.7	1.82	1.91
4	50.8	50.8	152.4	152.4	120.7	120.7	2.86	2.91
5	57.2	57.2	179.4	179.4	141.3	141.3	4.66	4.72
6	60.3	77.8	215.9	225.4	169.9	169.9	6.45	10.50
8	69.9	98.5	263.5	292.1	220.7	220.7	10.70	16.80
10	77.8	93.7	322.3	323.9	274.7	265.1	17.73	20.90
12	85.7	103.2	377.8	397.4	325.4	317.5	26.80	27.70
14	88.9	100	409.6	431.8	357.2	350.8	30.10	31.80
16	93.7	106.4	463.6	466.7	408	403.2	34.10	46.40
18	96.8	111.1	520.7	523.9	458.8	455.6	44.20	59.20
20	101.6	119.1	571.5	582.6	508	509.6	53.60	71.90
24	115.7	139.7	689	708	614.4	638.2	99.90	131.80

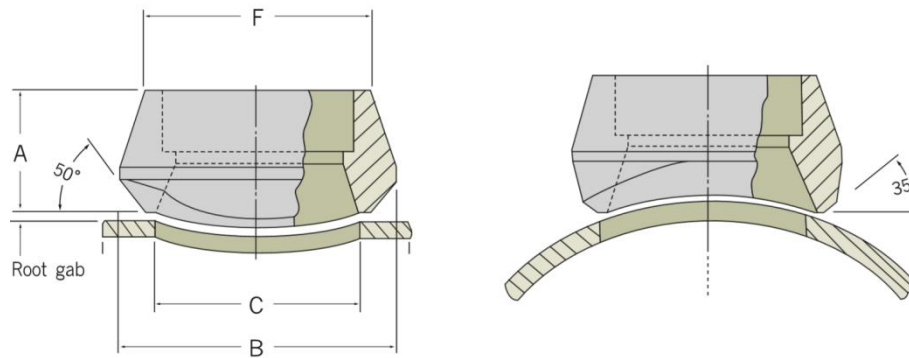
SCH160, XX-S

Outlet Size	A		B		C		Weight (Kg)	
	STD	X-S	STD	X-S	STD	X-S	STD	X-S
1/2	28.6	28.6	34.9	34.9	14.3	14.3	0.11	-
3/4	31.8	31.8	44.5	44.5	19.1	19.1	0.32	-
1	38.1	38.1	50.8	50.8	25.4	25.4	0.38	0.38
1.1/4	44.5	44.5	61.9	61.9	33.3	33.3	0.57	0.57
1.1/2	50.8	50.8	69.9	69.9	38.1	38.1	0.80	0.80
2	55.6	55.6	81	81	42.9	42.9	1.02	1.02
2.1/2	61.9	61.9	96.8	96.8	54	54	1.54	1.54
3	73	73	120.7	120.7	73	73	2.90	2.90
4	84.1	84.1	152.4	152.4	98.4	98.4	4.80	4.80
5	93.7	93.7	187.3	187.3	122.2	122.2	6.50	6.50
6	104.8	104.8	220.7	220.7	146.1	146.1	12.70	12.70
8	111.1	111.1	284.2	284.2	173	173	20.50	20.50
10	125.4	125.4	312.7	312.7	215.9	215.9	38.60	38.60

- Dimensions are in millimeters.
- Applicable Run Pipe Sizes are from Out-Let size to 36 inch.

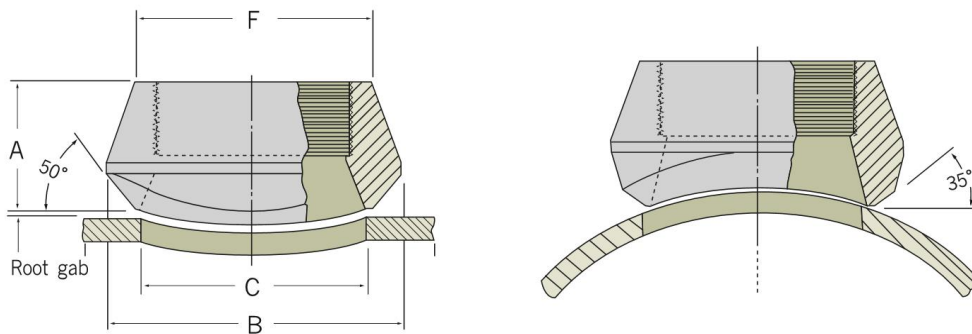
FORGED OUTLET FITTINGS

Sockolet



Outlet Size	A		B		C		F		Weight (Kg)	
	3000#	6000#	3000#	6000#	3000#	6000#	3000#	6000#	3000#	6000#
1/2	25.4	31.8	34.9	44.5	23.8	19.1	31.8	39.7	0.14	0.23
3/4	27	36.5	44.5	50.8	30.2	25.4	36.5	46.6	0.15	0.36
1	33.3	39.7	54	61.9	36.5	33.3	46	57.2	0.27	0.59
1.1/4	33.3	41.3	65.1	69.9	44.5	38.1	55.6	65.1	0.39	0.73
1.1/2	34.9	42.9	73	82.6	50.8	49.2	61.9	76.2	0.47	0.91
2	38.1	58.7	88.9	103.2	65.1	58.7	74.6	92.1	0.73	2.33
2.1/2	46	-	103.2	-	76.2	-	87.3	-	1.25	-
3	50.8	-	122.2	-	93.7	-	104.8	-	1.73	-
4	57.2	-	152.4	-	120.7	-	130.2	-	3.30	-

Threadolet

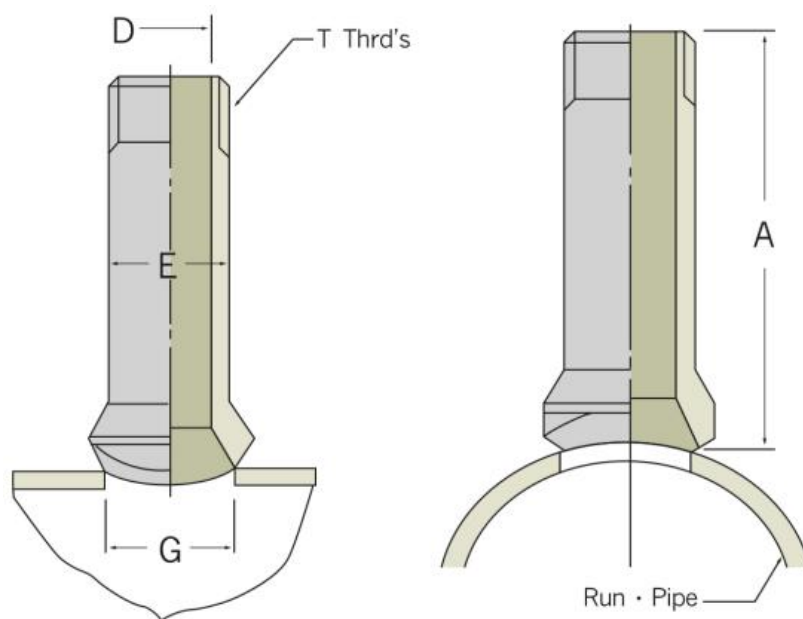


Outlet Size	A		B		C		F		Weight (Kg)	
	3000#	6000#	3000#	6000#	3000#	6000#	3000#	6000#	3000#	6000#
1/2	25.4	31.8	34.9	44.5	23.8	19.1	31.8	39.7	0.14	0.23
3/4	27	36.5	44.5	50.8	30.2	25.4	36.5	46.6	0.15	0.36
1	33.3	39.7	54	61.9	36.5	33.3	46	57.2	0.27	0.59
1.1/4	33.3	41.3	65.1	69.9	44.5	38.1	55.6	65.1	0.39	0.73
1.1/2	34.9	42.9	73	82.6	50.8	49.2	61.9	76.2	0.47	0.91
2	38.1	58.7	88.9	103.2	65.1	58.7	74.6	92.1	0.73	2.33
2.1/2	46	-	103.2	-	76.2	-	87.3	-	1.25	-
3	50.8	-	122.2	-	93.7	-	104.8	-	1.73	-
4	57.2	-	152.4	-	120.7	-	130.2	-	3.30	-

- Dimensions are in millimeters.
- Applicable Run Pipe Sizes are from Out-let Size to 36 inch
- For the 3000# and 6000# Sockolets and Threadolets, Inside Bore, Thread Socket Bore and Socket Depth Dimensions are According to ASME B16.11

FORGED OUTLET FITTINGS

Nippolet



Run Pipe Size	T Outlet	A	G	D	E	Weight (Kg)
3/4 to 36	1/4	88.9	23.9	14	21.3	0.36
1 to 36	3/8	88.9	30.2	18.8	26.7	0.56
1.1/4 to 36	1	88.9	36.6	24.4	33.3	0.84
1.1/2 to 36	1.1/4	88.9	44.5	32.5	42.2	1.22
2 to 36	1.1/2	88.9	50.8	38.1	48.3	2.00
2.1/2 to 36	2	88.9	65	49.3	60.5	3.12

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