



SIMPLEX
STEEL INDUSTRIES
AN ISO 9001:2008 CERTIFIED CO .

Providing **Best**
Solution in
"STEEL"

Manufacturer & Suppliers of : Buttweld Fittings, Forged Fittings, Flanges



SIMPLEX
STEEL INDUSTRIES

AN ISO 9001:2008 CERTIFIED CO.

PRODUCT RANGE

BUTT WELD FITTINGS

Stainless Steel: ASTM A403 WP 304/ 304L/ 304H/316/ 316L/ 316Ti/ 317/ 317L/ 321/ 310/ 347/904L etc.

Carbon Steel: ASTM A234 WPB/A420 WPL3/A420 WPL6/ MSS-SP-75 WPHY 42/46/52/ 56/60/65/70

Alloy Steel: ASTM A234 WP1/ WP5/ WP9/ WP11/ WP22/ WP91 etc.

Others: Nickel & Nickel Alloys, Inconel, Monel, Hastelloy, Cupro-nickel, Titanium, etc.

Types: Elbow, Tee, Reducer, Return Bends, Stub-Ends, Cap, Collar, Cross, Insert etc.

Size: 1/4" NB TO 24" NB. (Seamless & Welded)

Wall Thickness: Sch. 5S To Sch. XXS.



FORGED / SCREWED FITTINGS

Stainless Steel: ASTM A182 F304/ 304L/ 304H/ 316/ 316L/ 316Ti / 317/ 317L/ 321/310/ 347/904L etc.

Carbon Steel: ASTM A105/ A694 F42/46/ 52/56/ 60/ 65/70 / A350 LF3/ A350 LF2.

Alloy Steel: ASTM A182 F1/ F5/ F9/ F11/ F22/ F91 etc.

Others: Nickel & Nickel Alloys, Inconel, Monel, Hastelloy, Cupro-nickel, Titanium, etc.

Types: Elbow, Tee, Union, Cross, Coupling, Cap, Bushing, Plug, Swage Nipple, Welding Boss, Hexagon Nipple, Barrel Nipple, Welding Nipple, Street Elbow, Hose Nipple, Bend, Adapter, Insert, Weldolet, Elbowlet, Sockolet, Thredolet, Nipolet, Letrolet, etc.

Size: 1/4" NB TO 4" NB. (Socketweld & Threaded)

Class: 3000#, 6000#, 9000#.



FLANGES

Stainless Steel : ASTM A182 F304/ 304L/ 304H/ 316/ 316L/316Ti / 317/317L/ 321/310/ 347/904L etc.

Carbon Steel : ASTM A105/ A694 F42/46/52/56/60/65/70/A350 LF3/A350 LF2, etc.

Alloy Steel : ASTM A182 F1/ F5/ F9/ F11/ F22/ F91 etc.

Others: Nickel & Nickel Alloys, Inconel, Monel, Hastelloy, Cupro-nickel, Titanium, etc.

Types : Weldneck, Slipon, Blind, Socket Weld, Lap Joint, Spectacles, Ring Joint, Oriface, Long Weldneck, Deck Flange, RTJ Flange, Threaded Flange, etc.

Size : 1/2" NB TO 24" NB.

Class : 150#, 300#, 400#, 600#, 900#, 1500# & 2500#.





COMPANY PROFILE

SIMPLEX STEEL INDUSTRIES, an ISO 9001:2008 certified company, takes immense pleasure to introduce ourselves as a manufacturing unit for all kinds of pipe fittings like Elbow, Bends, Equal & Unequal Tees, Stubends, Eccentric & Concentric Reducers, Caps etc. in various grades of Stainless Steel, Carbon Steel & Alloy Steel.

Our products are manufactured using optimum quality material and other components with advanced technologies. Our superior quality products at competent prices enable us to sustain in the highly competitive market. Our products are known for their high performance, durability and effectiveness.

We have a huge range of products that are used in various industries. We maintain a relentless pursuit of improvement in every critical performance measure and in this process, we have spread best practices and modern production techniques in our plant. We are committed to maintain world class quality standards, efficient delivery schedules, competitive price and excellent after sale service. Our manufacturing unit is well equipped with all the latest facilities & technologies that increase our production capabilities to the fullest.

Being an ISO 9001:2008 certified company; we have a well-defined quality control process that is structured to meet the international benchmarks of quality.

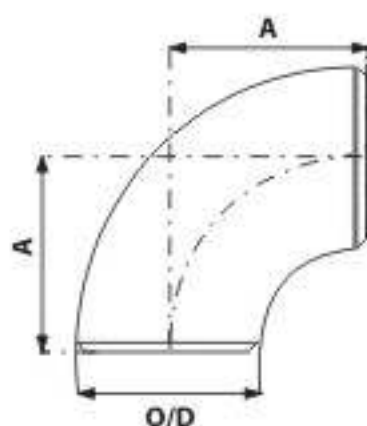




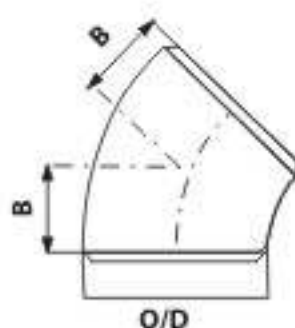
INFRASTRUCTURE

We own a state-of-the-art infrastructure that is spread over a huge area and is located at Mumbai in the state of Maharashtra (India). Our infrastructure accommodates manufacturing unit, design unit, R&D unit & Warehouse. All the units are equipped with requisite facilities and managed by experts to carry out operations effectively.

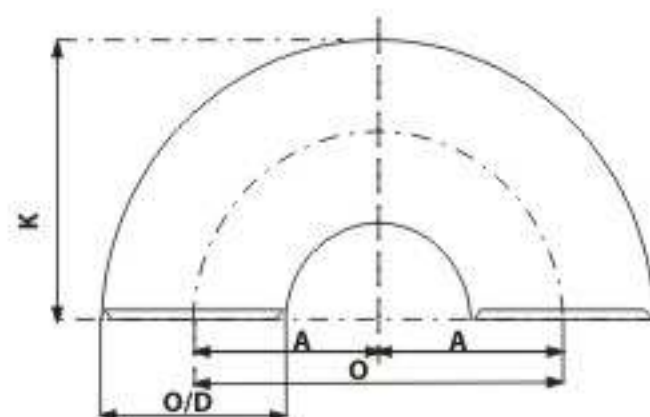
We have the required machines and equipment to produce high quality pipe fittings in various specifications for different requirement of our clients. The unit is equipped with sufficient warehousing facilities for storing large stocks to fulfill immediate requirement.



90° LR ELBOW



45° LR ELBOW

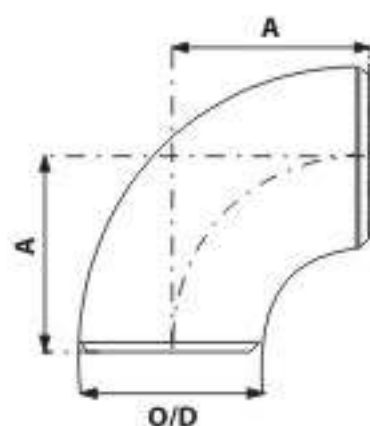


180° LR RETURN / U BEND

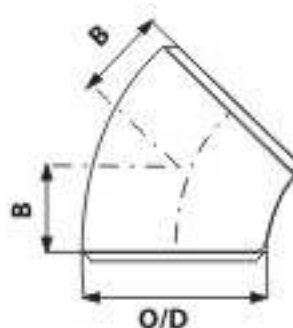
B16.9

Nominal Pipe Size (NPS)	Outside Diameter at Bevel (O/D)	Dimension A	Dimension B	Center to Center O	Back to Face K
1/2"	21.3	38	16	76	48
3/4"	26.7	38	19	76	51
1"	33.4	38	22	76	56
1.1/4"	42.2	48	25	95	70
1.1/2"	48.3	57	29	114	83
2"	60.3	76	35	152	106
2.1/2"	73.0	95	44	190	132
3"	88.9	114	51	229	159
3.1/2"	101.6	133	57	267	184
4"	114.3	152	64	305	210
5"	141.3	190	79	381	262
6"	168.3	229	95	457	313
8"	219.1	305	127	610	414
10"	273.0	381	159	762	518
12"	323.8	457	190	914	619
14"	355.6	533	222	1067	711
16"	406.4	610	254	1219	813
18"	457.0	686	286	1372	914
20"	508.0	762	318	1524	1016
22"	559.0	838	343	1676	1118
24"	610.0	914	381	1829	1219
26"	660.0	991	406	.....	.....
28"	711.0	1067	438	.....	.....
30"	762.0	1143	470	.....	.....
32"	813.0	1219	502	.....	.....
34"	864.0	1295	533	.....	.....
36"	914.0	1372	565	.....	.....

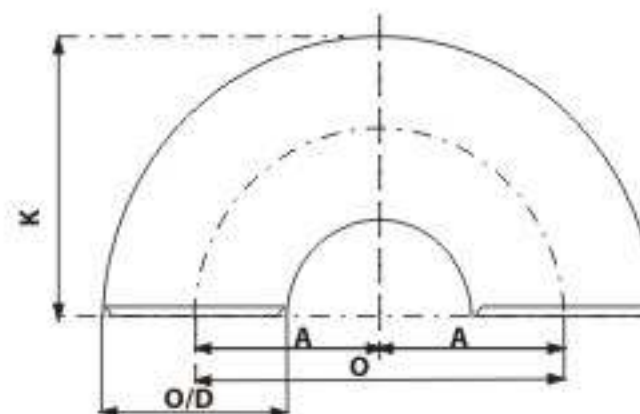
Note : All Dimensions are in millimeters (mm)
Dimension for 38" and above on request.



90° SR ELBOW



45° SR ELBOW

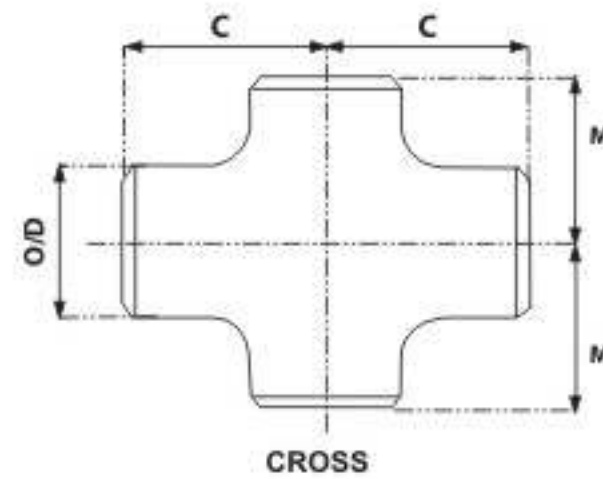
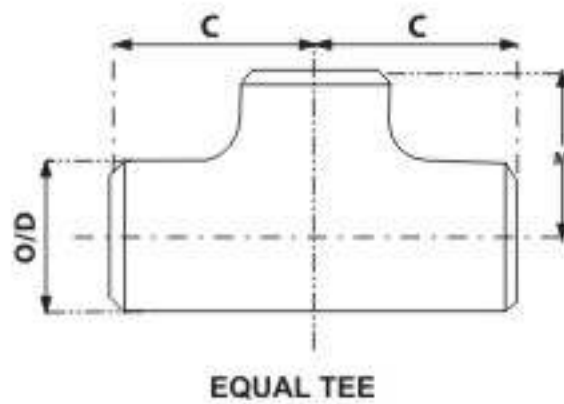


180° SR RETURN BEND

B16.9 / B16.28

Nominal Pipe Size (NPS)	Outside Diameter at Bevel (O/D)	Dimension A	Dimension B	Center to Center O	Back to Face K
1/2"	21.3	.....	.....	.....	.....
3/4"	26.7	.....	.....	.....	.....
1"	33.4	25	.....	51	41
1.1/4"	42.2	32	.....	64	52
1.1/2"	48.3	38	.....	76	62
2"	60.3	51	...	102	81
2.1/2"	73.0	64	.....	127	100
3"	88.9	76	31.6	152	121
3.1/2"	101.6	89	36.8	178	140
4"	114.3	102	42.1	203	159
5"	141.3	127	52.6	254	197
6"	168.3	152	63.4	305	237
8"	219.1	203	84.2	406	313
10"	273.0	254	105.2	508	391
12"	323.8	305	126.3	610	467
14"	355.6	356	147.3	711	533
16"	406.4	406	168.3	813	610
18"	457.0	457	189.4	914	686
20"	508.0	508	210.4	1016	762
22"	559.0	559	231.5	1118	838
24"	610.0	610	252.5	1219	914

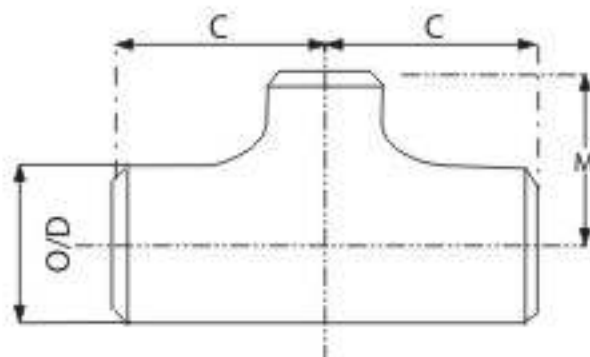
Note : All Dimensions are in millimeters (mm)



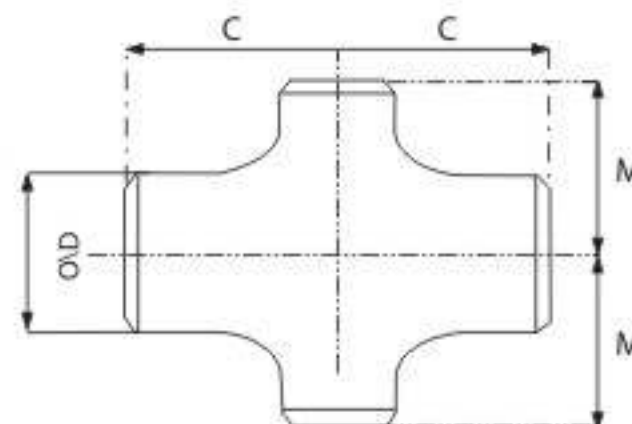
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Nominal Pipe Size (NPS)	Outside Diameter at Bevel (O/D)	Run 'C'	Outlet 'M'
1/2"	21.3	25	25
3/4"	26.7	29	29
1"	33.4	38	38
1.1/4"	42.2	48	48
1.1/2"	48.3	57	57
2"	60.3	64	64
2.1/2"	73.0	76	76
3"	88.9	86	86
3.1/2"	101.6	95	95
4"	114.3	105	105
5"	141.3	124	124
6"	168.3	143	143
8"	219.1	178	178
10"	273.0	216	216
12"	323.8	254	254
14"	355.6	279	279
16"	406.4	305	305
18"	457.0	343	343
20"	508.0	381	381
22"	559.0	419	419
24"	610.0	432	432
26"	660.0	495	495
28"	711.0	521	521
30"	762.0	559	559
32"	813.0	597	597
34"	864.0	635	635
36"	914.0	673	673

Note : All Dimensions are in millimeters (mm)
Dimension for 38" and above on request.



UNEQUAL TEE

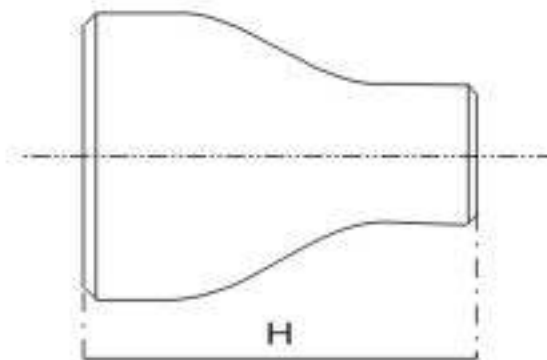


CROSS UNEQUAL

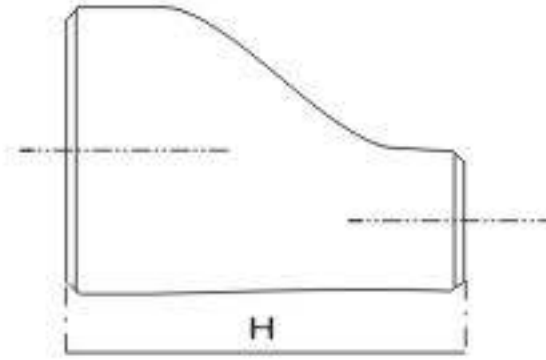
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Nominal Pipe Size (NPS)	Outside Diameter at Bevel (O/D)		Center - to - Center		Nominal Pipe Size (NPS)	Outside Diameter at Bevel (O/D)		Center - to - Center	
	Run	Outlet	Run 'C'	Outlet 'M'		Run	Outlet	Run 'C'	Outlet 'M'
1/2" x 3/8"	21.3	17.3	25	25	10" x 8"	273.0	219.1	216	203
1/2" x 1/4"	21.3	13.7	25	25	10" x 6"	273.0	168.3	216	194
3/4" x 1/2"	26.7	21.3	29	29	10" x 5"	273.0	141.3	216	191
3/4" x 3/8"	26.7	17.3	29	29	10" x 4"	273.0	114.3	216	184
1" x 3/4"	33.4	26.7	38	38	12" x 10"	323.8	273.0	254	241
1" x 1/2"	33.4	21.3	38	38	12" x 8"	323.8	219.1	254	229
1 1/4" x 1"	42.2	33.4	48	48	12" x 6"	323.8	168.3	254	219
1 1/4" x 3/4"	42.2	26.7	48	48	12" x 5"	323.8	141.3	254	216
1 1/4" x 1/2"	42.2	21.3	48	48	14" x 12"	355.6	323.8	279	270
1 1/2" x 1 1/4"	48.3	42.2	57	57	14" x 10"	355.6	273.0	279	257
1 1/2" x 1"	48.3	33.4	57	57	14" x 8"	355.6	219.1	279	248
1 1/2" x 3/4"	48.3	26.7	57	57	14" x 6"	355.6	168.3	279	238
1 1/2" x 1/2"	48.3	21.3	57	57	16" x 14"	406.4	355.6	305	305
2" x 1 1/2"	60.3	48.3	64	60	16" x 12"	406.4	323.8	305	295
2" x 1 1/4"	60.3	42.2	64	57	16" x 10"	406.4	273.0	305	283
2" x 1"	60.3	33.4	64	51	16" x 8"	406.4	219.1	305	273
2" x 3/4"	60.3	26.7	64	44	16" x 6"	406.4	168.3	305	264
2 1/2" x 2"	73.0	60.3	76	70	18" x 16"	457.0	406.4	343	330
2 1/2" x 1 1/2"	73.0	48.3	76	67	18" x 14"	457.0	355.6	343	330
2 1/2" x 1 1/4"	73.0	42.2	76	64	18" x 12"	457.0	323.8	343	321
2 1/2" x 1"	73.0	33.4	76	57	18" x 10"	457.0	273.0	343	308
3" x 2 1/2"	88.9	73.0	86	83	18" x 8"	457.0	219.1	343	298
3" x 2"	88.9	60.3	86	76	20" x 18"	508.0	457.0	381	368
3" x 1 1/2"	88.9	48.3	86	73	20" x 16"	508.0	406.4	381	356
3" x 1 1/4"	88.9	42.2	86	70	20" x 14"	508.0	355.6	381	356
3 1/2" x 3"	101.6	88.9	95	92	20" x 12"	508.0	323.8	381	346
3 1/2" x 2 1/2"	101.6	73.0	95	89	20" x 10"	508.0	273.0	381	333
3 1/2" x 2"	101.6	60.3	95	83	20" x 8"	508.0	219.1	381	324
3 1/2" x 1 1/2"	101.6	48.3	95	79	22" x 20"	559.0	508.0	419	406
4" x 3 1/2"	114.3	101.6	105	102	22" x 18"	559.0	457.0	419	394
4" x 3"	114.3	88.9	105	98	22" x 16"	559.0	406.4	419	381
4" x 2 1/2"	114.3	73.0	105	95	22" x 14"	559.0	355.6	419	381
4" x 2"	114.3	60.3	105	89	22" x 12"	559.0	323.8	419	371
4" x 1 1/2"	114.3	48.3	105	86	22" x 10"	559.0	273.0	419	359
5" x 4"	141.3	114.3	124	117	24" x 22"	610.0	559.0	432	432
5" x 3 1/2"	141.3	101.6	124	114	24" x 20"	610.0	508.0	432	432
5" x 3"	141.3	88.9	124	111	24" x 18"	610.0	457.0	432	419
5" x 2 1/2"	141.3	73.0	124	108	24" x 16"	610.0	406.4	432	406
5" x 2"	141.3	60.3	124	105	24" x 14"	610.0	355.6	432	406
6" x 5"	168.3	141.3	143	137	24" x 12"	610.0	323.8	432	397
6" x 4"	168.3	114.3	143	130	24" x 10"	610.0	273.0	432	384
6" x 3 1/2"	168.3	101.6	143	127	26" x 24"	660.0	610.0	495	483
6" x 3"	168.3	88.9	143	124	26" x 22"	660.0	559.0	495	470
6" x 2 1/2"	168.3	73.0	143	121	26" x 20"	660.0	508.0	495	457
8" x 6"	219.1	168.3	178	168	26" x 18"	660.0	457.0	495	444
8" x 5"	219.1	141.3	178	162	26" x 16"	660.0	406.4	495	432
8" x 4"	219.1	114.3	178	156	26" x 14"	660.0	355.6	495	432
8" x 3 1/2"	219.1	101.6	178	152	26" x 12"	660.0	323.8	495	422
					28" x 26"	711.0	660.0	521	521
					28" x 24"	711.0	610.0	521	508
					28" x 22"	711.0	559.0	521	495
					28" x 20"	711.0	508.0	521	483

Note : All Dimensions are in millimeters (mm)
Dimension for 30" and above on request.



CONCENTRIC REDUCER



ECCENTRIC REDUCER

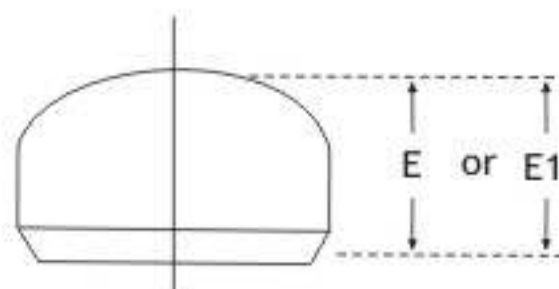
B16.9

Nominal Pipe Size (NPS)	Outside Diameter at Bevel (O/D)		End-to-End H	Nominal Pipe Size (NPS)	Outside Diameter at Bevel (O/D)		End-to-End H
	Run	Outlet			Run	Outlet	
3/4" x 1/2"	26.7	21.3	38	12" x 10"	323.8	273.0	203
3/4" x 3/8"	26.7	17.3	38	12" x 8"	323.8	219.1	203
1" x 3/4"	33.4	26.7	51	12" x 6"	323.8	168.3	203
1" x 1/2"	33.4	21.3	51	12" x 5"	323.8	141.3	203
1 1/4" x 1"	42.2	33.4	51	14" x 12"	355.6	323.8	330
1 1/4" x 3/4"	42.2	26.7	51	14" x 10"	355.6	273.0	330
1 1/4" x 1/2"	42.2	21.3	51	14" x 8"	355.6	219.1	330
1 1/2" x 1 1/4"	48.3	42.2	64	14" x 6"	355.6	168.3	330
1 1/2" x 1"	48.3	33.4	64	16" x 14"	406.4	355.6	356
1 1/2" x 3/4"	48.3	26.7	64	16" x 12"	406.4	323.8	356
1 1/2" x 1/2"	46.3	21.3	64	16" x 10"	406.4	273.0	356
2" x 1 1/2"	60.3	48.3	76	16" x 8"	406.4	219.1	356
2" x 1 1/4"	60.3	42.2	76	18" x 16"	457.0	406.4	381
2" x 1"	60.3	33.4	76	18" x 14"	457.0	356.6	381
2" x 3/4"	60.3	26.7	76	18" x 12"	457.0	323.8	381
2 1/2" x 2"	73.0	60.3	89	18" x 10"	457.0	273.0	381
2 1/2" x 1 1/2"	73.0	48.3	89	20" x 18"	508.0	457.0	508
2 1/2" x 1 1/4"	73.0	42.2	89	20" x 16"	508.0	406.4	508
2 1/2" x 1"	73.0	33.4	89	20" x 14"	508.0	355.6	508
3" x 2 1/2"	88.9	73.0	89	20" x 12"	508.0	323.8	508
3" x 2"	88.9	60.3	89	22" x 20"	559.0	508.0	508
3" x 1 1/2"	88.9	48.3	89	22" x 18"	559.0	457.0	508
3" x 1 1/4"	88.9	42.2	89	22" x 16"	559.0	406.4	508
3 1/2" x 3"	101.6	88.9	102	22" x 14"	559.0	355.6	508
3 1/2" x 2 1/2"	101.6	73.0	102	24" x 22"	610.0	559.0	508
3 1/2" x 2"	101.6	60.3	102	24" x 20"	610.0	508.0	508
3 1/2" x 1 1/2"	101.6	48.3	102	24" x 18"	610.0	457.0	508
4" x 3 1/2"	114.3	101.6	102	24" x 16"	610.0	406.4	508
4" x 3"	114.3	88.9	102	26" x 24"	660.0	610.0	610
4" x 2 1/2"	114.3	73.0	102	26" x 22"	660.0	559.0	610
4" x 2"	114.3	60.3	102	26" x 20"	660.0	508.0	610
4" x 1 1/2"	114.3	48.3	102	26" x 18"	660.0	457.0	610
5" x 4"	141.3	114.3	127	28" x 26"	711.0	660.0	610
5" x 3 1/2"	141.3	101.6	127	28" x 24"	711.0	610.0	610
5" x 3"	141.3	88.9	127	28" x 20"	711.0	508.0	610
5" x 2 1/2"	141.3	73.0	127	28" x 18"	711.0	457.0	610
5" x 2"	141.3	60.3	127	30" x 28"	762.0	711.0	610
6" x 5"	168.3	141.3	140	30" x 26"	762.0	660.0	610
6" x 4"	168.3	114.3	140	30" x 24"	762.0	610.0	610
6" x 3 1/2"	168.3	101.6	140	30" x 20"	762.0	508.0	610
6" x 3"	168.3	88.9	140	32" x 30"	813.0	762.0	610
6" x 2 1/2"	168.3	73.0	140	32" x 28"	813.0	711.0	610
8" x 6"	219.1	168.3	152	32" x 26"	813.0	660.0	610
8" x 5"	219.1	141.3	152	32" x 24"	813.0	610.0	610
8" x 4"	219.1	114.3	152	34" x 32"	864.0	813.0	610
8" x 3 1/2"	219.1	101.6	152	34" x 30"	864.0	762.0	610
10" x 8"	273.0	219.1	178	34" x 26"	864.0	660.0	610
10" x 6"	273.0	168.3	178	34" x 24"	864.0	610.0	610
10" x 5"	273.0	141.3	178				
10" x 4"	273.0	114.3	178				

Note : All Dimensions are in millimeters (mm)
 Dimension for 36" and above on request.



CAPS



B16.9

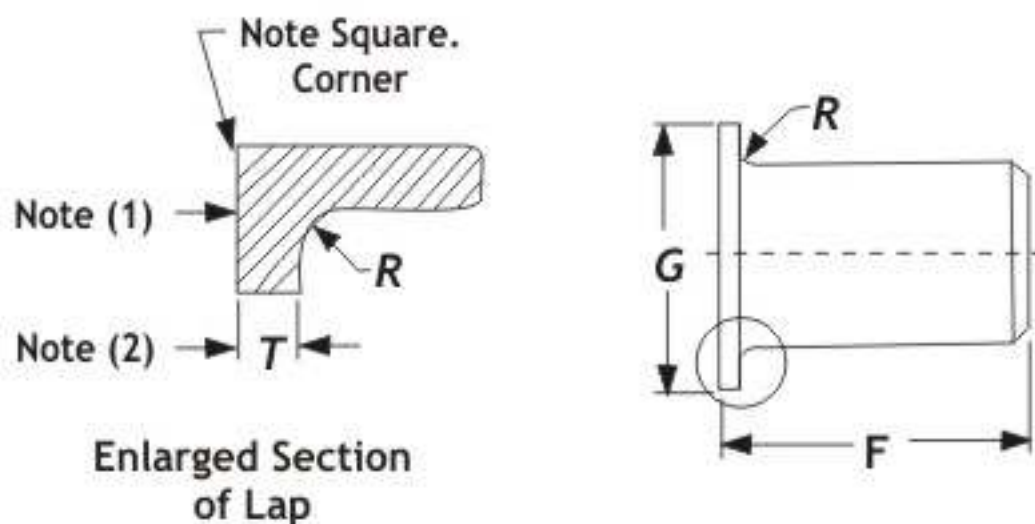
Nominal Pipe Size (NPS)	Outside Diameter at Bevel D	Length (1) E	Limiting Wall Thickness for Length E	Length (2) E1
1/2	0.84	1.00	0.18	1.00
3/4	1.05	1.00	1.15	1.00
1	1.32	1.50	0.18	1.50
1 1/4	1.66	1.50	0.19	1.50
1 1/2	1.90	1.50	0.20	1.50
2	2.38	1.50	0.22	1.75
2 1/2	2.88	1.50	0.28	2.00
3	3.50	2.00	0.30	2.50
3 1/2	4.00	2.50	0.32	3.00
4	4.50	2.50	0.34	3.00
5	5.56	3.00	0.38	3.50
6	6.62	3.50	0.43	4.00
8	8.62	4.00	0.50	5.00
10	10.75	5.00	0.50	6.00
12	12.75	6.00	0.50	7.00
14	14.00	6.50	0.50	7.50
16	16.00	7.00	0.50	8.00
18	18.00	8.00	0.50	9.00
20	20.00	9.00	0.50	10.00
22	22.00	10.00	0.50	10.00
24	24.00	10.50	0.50	12.00
26	26.00	10.50	...	...
28	28.00	10.50	...	...
30	30.00	10.50	...	...
32	32.00	10.50	...	...
34	34.00	10.50	...	...
36	36.00	10.50	...	...
38	38.00	12.00	...	...
40	40.00	12.00	...	...
42	42.00	12.00	...	...
44	44.00	13.50	...	...
46	46.00	13.50	...	...
48	48.00	13.50	...	...

GENERAL NOTE :

- (a) Dimensions are in inches.
- (b) The shape of these caps shall be ellipsoidal and shall conform to the shape requirements as given in the ASME Boiler and Pressure Vessel Code

NOTES :

- (1) Length E applies for thickness not exceeding that given in column "Limiting Wall Thickness for Length E".
- (2) Length E1 applies for thickness greater than that given in column "Limiting Wall Thickness" for NPS 24 and smaller. For NPS 26 and larger, length E1 shall be by agreement between manufacturer and purchaser.



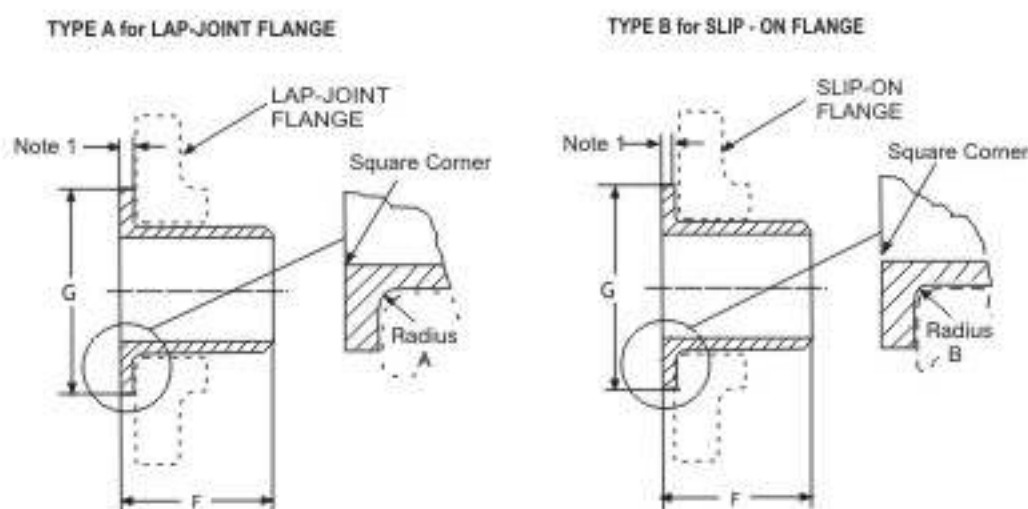
Nominal Pipe Size NPS	Outside Diameter of Barrel		long pattern length (F) notes(3)(4)	Short pattern length (F) notes(3)(4)	Radius of Fillet R Note(5)	Diameter of Lap (G) Note (6)
	Max	Min				
1/2"	0.896	0.809	3	2	0.12	1.38
3/4"	1.106	1.019	3	2	0.12	1.69
1"	1.376	1.284	4	2	0.12	2
1 1/4"	1.716	1.629	4	2	0.19	2.5
1 1/2"	1.965	1.869	4	2	0.25	2.88
2"	2.456	2.344	6	2.5	0.31	3.62
2 1/2"	2.966	2.844	6	2.5	0.31	4.12
3"	3.596	3.469	6	2.5	0.38	5
3 1/2"	4.096	3.969	6	3	0.38	5.5
4"	4.593	4.469	6	3	0.44	6.19
5"	5.683	5.532	6	3	0.44	7.3
6"	6.743	6.594	8	3.5	0.5	8.5
8"	8.743	8.594	8	4	0.5	10.62
10"	10.913	10.719	8	5	0.5	12.75
12"	12.913	12.719	10	6	0.5	15
14"	14.17	13.969	10	6	0.5	16.25
16"	16.18	15.969	12	6	0.5	18.5
18"	18.19	17.969	12	6	0.5	21
20"	20.24	19.969	12	6	0.5	23
22"	22.24	21.969	12	6	0.5	25.25
24"	24.24	23.969	12	6	0.5	27.25

GENERAL NOTES:

- a) All dimensions are in inches.
 b) For Tolerance see B/W Fitting tolerances chart
 c) Service conditions and joint construction often dictate stub end length requirements. Therefore, the purchaser must specify long or short pattern fitting when ordering.

NOTES:

- 1) Gasket face finish shall be in accordance with ASME B16.5 for raised face flanges.
 2) The lap thickness T shall not be less than nominal pipe wall thickness (see B/W Fitting tolerances chart)
 3) When short pattern stub ends are used with larger flanges in classes 300 and 600, with most sizes in classes 900 and higher, and when long pattern stub ends are used with larger flanges in classes 1500 and 2500, it may be necessary to increase the length of the stub ends in order to avoid covering the weld with the flange. Such increases in length shall be matter of agreement between the Manufacturer and purchaser.
 4) When special facings such as tongue and groove, male and female, etc., are employed, additional lap thickness must be provided and such additional thickness shall be in addition to (not included in) the basic length F.
 5) These dimensions conform to the radius established for lap joint flanges in ASME B16.5.
 6) This dimension conforms to standard machined facings shown in ASME B16.5. The back face of the lap shall be machined to conform to the surface on which it seats. Where ring joint facings are to be applied, use dimension K as given in ASME B16.5.



MSS SP 43

Nominal Pipe Size	Outside Diameter at Bevel	Out side Diameter of lap G	Stub Ends		
			Length F*	Radius* of Fillet	
				A - nominal and max	B (max)
1/2	0.84	1.38	2	0.12	0.03
3/4	1.05	1.69	2	0.12	0.03
1	1.32	2	2	0.12	0.03
1 1/4	1.66	2.5	2	0.19	0.03
1 1/2	1.9	2.88	2	0.25	0.03
2	2.38	3.63	2.5	0.31	0.03
2 1/2	2.88	4.13	2.5	0.31	0.03
3	3.5	5	2.5	0.38	0.03
3 1/2	4	5.5	3	0.38	0.03
4	4.5	6.19	3	0.44	0.03
5	5.56	7.31	3	0.44	0.06
6	6.63	8.5	3.5	0.5	0.06
8	8.63	10.62	4	0.5	0.06
10	10.75	12.75	4	0.5	0.06
12	12.75	15	6	0.5	0.06
14	14	16.25	6	0.5	0.06
16	16	18.5	6	0.5	0.06
18	18	21	6	0.5	0.06
20	20	23	6	0.5	0.06
24	24	27.25	6	0.5	0.06

All Dimension are in Inches

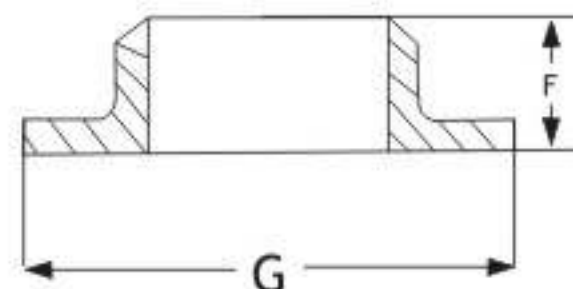
* These lengths and radii for use with Schedule 40S or thinner pipe.

Note 1. The minimum lap thickness shall not be less than nominal pipe wall thickness.

Note 2. Contact faces of stub ends shall have a modified spiral or concentric serration.

PRESSED STUBENDS / WELDING COLLARS

NOMINAL BORE (INCH)	OUTSIDE DIAMETER AT BEVEL	OUT SIDE DIAMETER OF LAP G	HEIGHT 'F'
1/2	0.84	1.38	0.31
3/4	1.05	1.69	0.31
1	1.32	2	0.39
1 1/4	1.66	2.5	0.47
1 1/2	1.9	2.88	0.47
2	2.38	3.63	0.62
2 1/2	2.88	4.13	0.62
3	3.5	5	0.70
3 1/2	4	5.5	0.78
4	4.5	6.19	0.78
5	5.56	7.31	0.98
6	6.63	8.5	0.98
8	8.63	10.62	1.18
10	10.75	12.75	1.37
12	12.75	15	1.57



NOTE : 1) All Dimension are in Inches

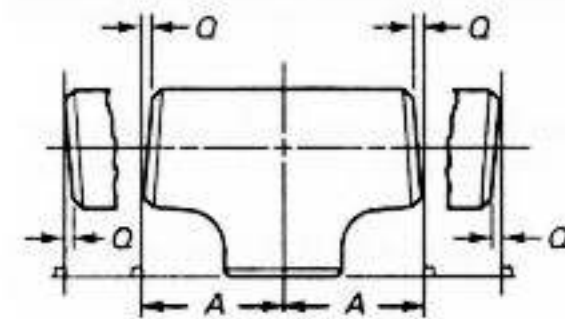
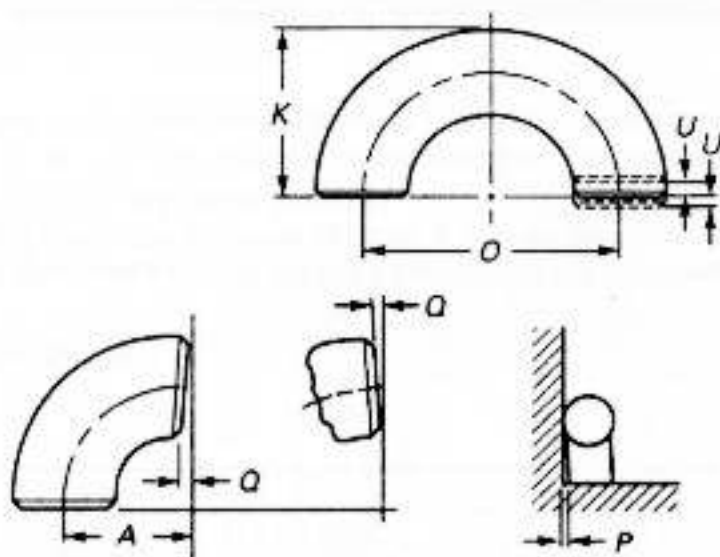
2) Thk as per Sch10S/40S etc.

3) Also can be manufactured in DIN Standard or as per your drawings

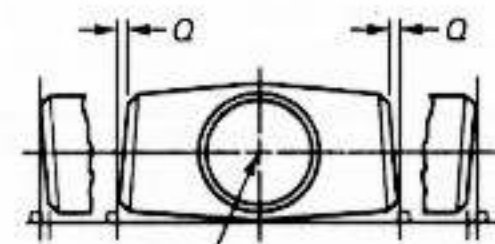
DIMENSIONAL TOLERANCE OF PIPE FITTING ANSI B16.9 / B16.28 / MSS SP - 43

ALL FITTINGS				90°/60°/45° 30° ELBOWS & TEES		REDUCERS & STUBEND		180° RETURNS				CAPS		ANGULARITY TOLERANCE						
Nominal Pipe size INCH/MM	Outside Diameter at Bevel		Inside Dia. Meter	Wall Thickness at End		Center to End		Overall Length Dimension		Center to End		Back to Face Dimension		Alingment of End Dimentions		Overall Length		Nominal Pipe Size	Off Angel Inch/mm	Off Plane
	D			T		A,B,C,M		H, F		O		K		U		E			Q	P
	(1) B16.9	MSS SP 43	(2) B16.9	B16.9	MSS SP43	B16.9	MSS SP43	B16.9	MSS SP43	B16.9	MSS SP43	B16.9	MSS SP43	B16.9	MSS SP43	B16.9	MSS SP43		B16.9	B16.9
½" - 2½" 15 - 65	+1.6 - 0.8		+0.8	Not Less Than 87.5% Nominal Thk	Not Less Than 87.5% Nominal Thk	FROM ½" TO 18 15 TO 600	FROM ¾"	FROM 1/2" - 24" 15 - 600	FROM 1/2" - 8" 15 - 200							±3	±3.17	½" - 4" 15 - 100	±1	±2
3" - 3½" 80 - 90	±1.6	+0.80	±1.6			±2	±1.60	±2	±1.60	±6	±6.35	±6.0	±6.4	±1	±0.8	±6	±6.35	5" - 8" 125 - 200	±2	±4
4" 100																		10" - 12" 250 - 300	±3	±5
5" - 6" 125 - 150	+2.4 -1.6	+1.60 -0.80	±3.2			±2.40	±2.38	±10	±10	±2.0"	±1.60	14" - 16" 350 - 400	±3	±7						
8" 200	18" - 24" 450 - 600	±4										±10								
10" - 18" 250 - 450	+4 -3.2	+2.38 -0.80	±4.8			±3	±5								26" - 30" 650 - 750	±5	±10			
20" - 24" 500 - 600	+6.4 -4.8	+3.17 -0.79													32" - 42" 800 - 1050	±5	±13			
26" - 30" 650 - 750	+6.4 -4.8	±4.8													44" - 48" 1100 - 1200	±5	±20			
32" - 48" 800 - 1200	+6.4 -4.8																	42 - 48" 1050 - 1200	±5	±20

Tolerances

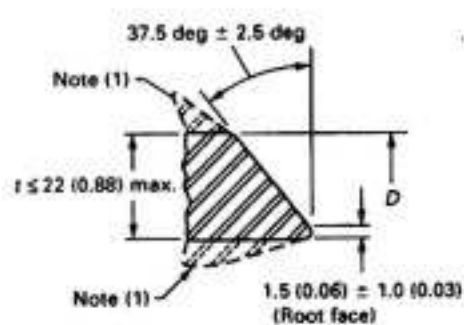


Tees

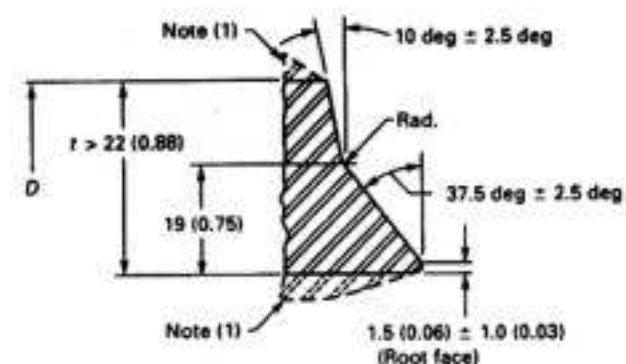


This end flush against square

Welding Bevels and Root Face



(a) Plain Bevel



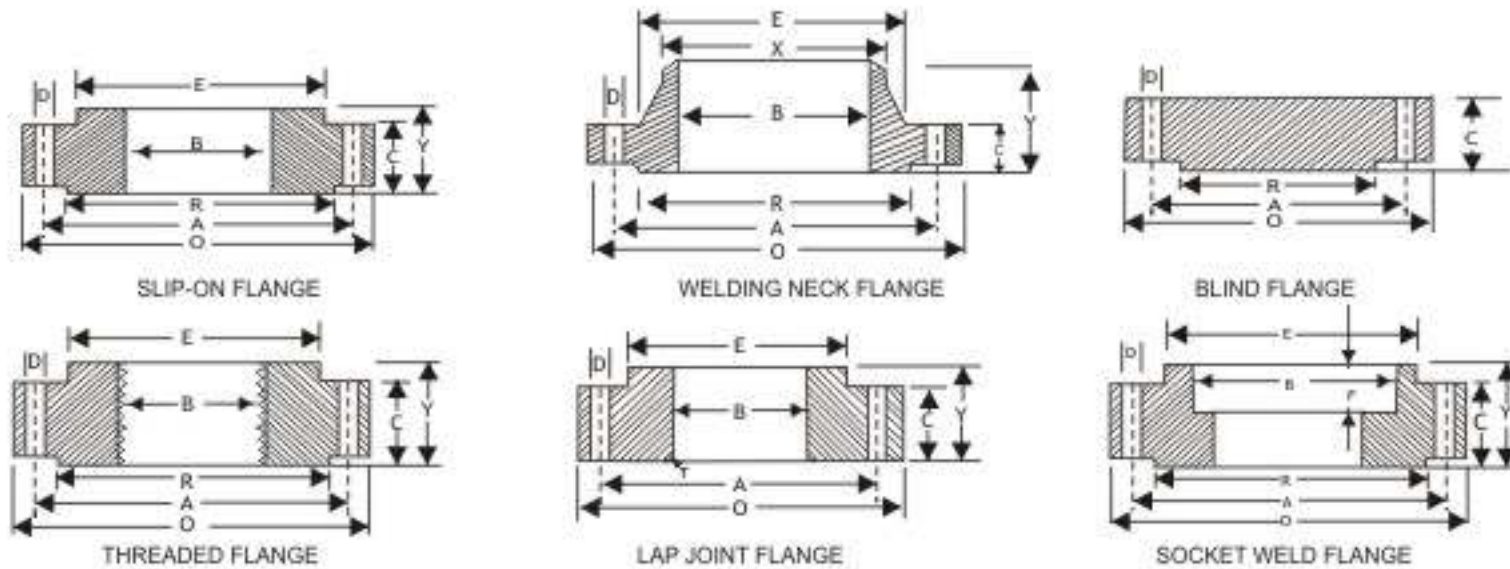
(b) Compound Bevel

Nominal Wall Thickness

Less than x (Note (2)) x to 22 (0.88), inclusive
More than 22 (0.88)

End Preparation

Cut Square or Slightly Chamfer, at manufacturer's option (not illustrated) Plain as in illustration
(a) above Compound bevel as in illustration (b) above



DIMENSIONS OF CLASS 150 FLANGES AS PER B16.5

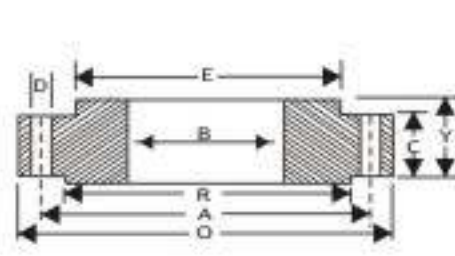
Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	No. Of Bolt Holes D	No. Of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	88.9	60.3	15.9	4	11.1	30.2	15.9	47.6	15.9	22.3	22.9	34.9	9.5	21.33
20	98.4	69.8	15.9	4	12.7	38.1	15.9	52.4	15.9	27.7	28.2	42.9	11.1	26.67
25	107.9	79.4	15.9	4	14.3	49.2	17.5	55.6	17.5	34.5	35.0	50.8	12.7	33.40
32	117.5	88.9	15.9	4	15.9	58.7	20.6	57.1	20.6	43.2	43.7	63.5	14.3	42.16
40	127.0	98.4	15.9	4	17.5	65.1	22.2	61.9	22.2	49.5	50.0	73.0	15.9	48.26
50	152.4	120.6	19.0	4	19.0	77.8	25.4	63.5	25.4	62.0	62.5	92.1	17.5	60.31
65	177.8	139.7	19.0	4	22.2	90.5	28.6	69.8	28.6	74.7	75.4	104.8	19.0	73.02
80	190.5	152.4	19.0	4	23.8	107.9	30.2	69.8	30.2	90.7	91.4	127.0	20.6	88.90
100	228.6	190.5	19.0	8	23.8	134.9	33.3	76.2	33.3	116.1	116.8	157.2	23.8	114.30
125	254.0	215.9	22.2	8	23.8	163.5	36.5	88.9	36.5	143.8	144.5	185.7	23.8	141.30
150	279.4	241.3	22.2	8	25.4	192.1	39.7	88.9	39.7	170.7	171.4	215.9	27.0	168.27
200	342.9	298.4	22.2	8	28.6	246.1	44.4	101.6	44.4	221.5	222.2	269.9	31.7	219.07
250	406.4	361.9	25.4	12	30.2	304.8	49.2	101.6	49.2	276.3	277.4	323.8	33.3	273.05
300	482.6	431.8	25.4	12	31.8	365.1	55.6	114.3	55.6	327.1	328.2	381.0	39.7	323.85
350	533.4	476.2	28.6	12	34.9	400.0	57.1	127.0	79.4	359.1	360.2	412.7	41.3	355.60
400	596.9	539.7	28.6	16	36.5	457.2	63.5	127.0	87.3	410.5	411.2	469.9	44.4	406.40
450	635.0	577.8	31.7	16	39.7	504.8	68.3	139.7	96.8	461.8	462.3	533.4	49.2	457.20
500	698.5	635.0	31.7	20	42.9	558.8	73.0	144.5	103.2	513.1	514.3	584.2	54.0	508.00
600	812.8	749.3	34.9	20	47.6	663.6	82.5	152.4	111.1	615.9	615.9	692.1	63.5	609.60

DIMENSIONS OF CLASS 300 FLANGES AS PER B16.5

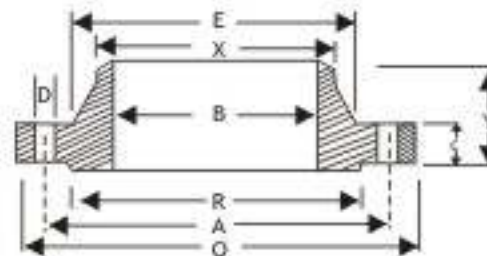
Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	No. Of Bolt Holes D	No. Of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	95.2	66.7	15.9	4	14.3	38.1	22.2	52.4	22.2	22.3	22.9	34.9	9.5	21.33
20	117.5	82.5	19.0	4	15.9	47.6	25.4	57.1	25.4	27.7	28.2	42.9	11.1	26.67
25	123.8	88.9	19.0	4	17.5	54.0	27.0	61.9	27.0	34.5	35.0	50.8	12.7	33.40
32	133.3	98.4	19.0	4	19.0	63.5	27.0	65.1	27.0	43.2	43.7	63.5	14.3	42.16
40	155.6	114.3	22.2	4	20.6	69.8	30.2	68.3	30.2	49.5	50.0	73.0	15.9	48.26
50	165.1	127.0	19.0	8	22.2	84.1	33.3	69.8	33.3	62.0	62.5	92.1	17.5	60.31
65	190.5	149.2	22.2	8	25.4	100.0	38.1	76.2	38.1	74.7	75.4	104.8	19.0	73.02
80	209.5	168.3	22.2	8	28.6	117.5	42.9	79.4	42.9	90.7	91.4	127.0	20.6	88.90
100	254.0	200.0	22.2	8	31.8	146.0	47.6	85.7	47.6	116.1	116.8	157.2	23.8	114.30
125	279.4	234.9	22.2	8	34.9	177.8	50.8	98.4	50.8	143.8	144.5	185.7	-	141.30
150	317.5	269.9	22.2	12	36.5	206.4	52.4	98.4	52.4	170.7	171.4	215.9	-	168.27
200	381.0	330.2	25.4	12	41.3	260.3	61.9	111.1	61.9	221.5	222.2	269.9	-	219.07
250	444.5	387.3	28.6	16	47.6	320.7	66.7	117.5	95.2	276.3	277.4	323.8	-	273.05
300	520.7	450.8	31.7	16	50.8	374.6	73.0	130.2	101.6	327.1	328.2	381.0	-	323.85
350	584.2	514.3	31.7	20	54.0	425.4	76.2	142.9	111.1	359.1	360.2	412.7	-	355.60
400	647.7	571.5	34.9	20	57.2	482.6	82.5	146.0	120.6	410.5	411.2	469.9	-	406.40
450	711.2	628.5	34.9	24	60.3	533.4	88.9	158.7	130.2	461.8	462.3	533.4	-	457.20
500	774.7	685.8	34.9	24	63.5	587.4	95.2	161.9	139.7	513.1	514.3	584.2	-	508.00
600	914.4	812.8	41.3	24	69.8	701.7	106.4	168.3	152.4	615.9	615.9	692.1	-	609.60

Metric values are direct conversion from Inches table of B16.5

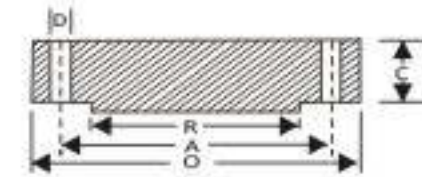
Flanges except Lap Joint will be furnished with (1.6 mm) raised face, Which is included in " Thickness " (C) and Length Through Hub (Y).



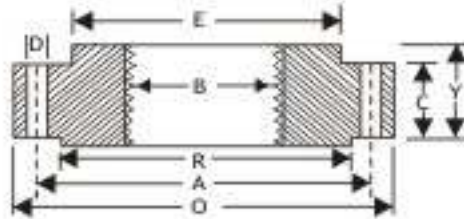
SLIP-ON FLANGE



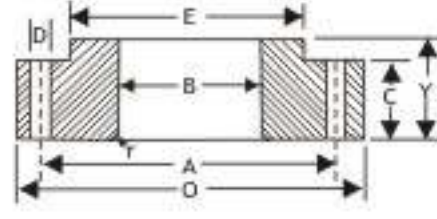
WELDING NECK FLANGE



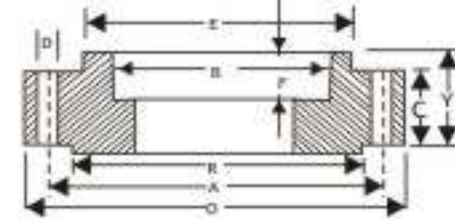
BLIND FLANGE



THREADED FLANGE



LAP JOINT FLANGE



SOCKET WELD FLANGE

DIMENSIONS OF CLASS 600 FLANGES AS PER B 16.5

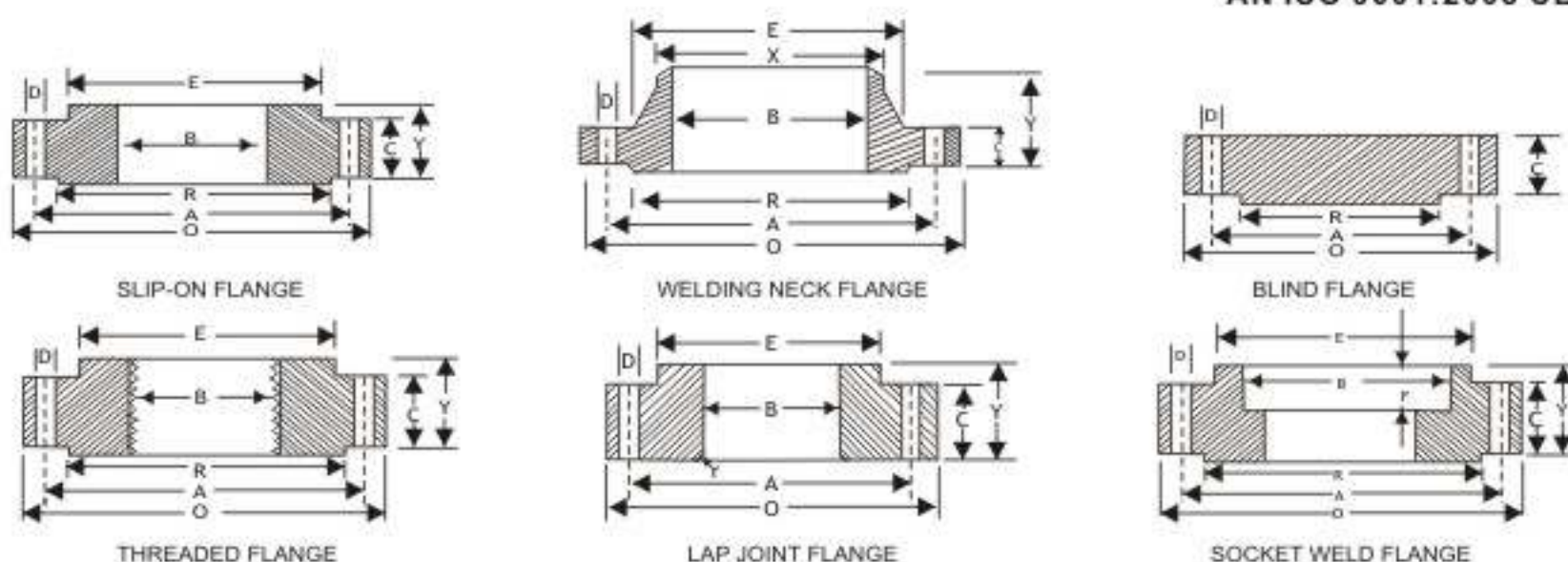
Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	No. of Bolt Holes D	No. of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	95.2	66.7	15.9	4	14.3	38.1	22.2	52.4	22.3	22.3	22.8	34.9	9.5	21.33
20	117.5	82.5	19.0	4	15.9	47.6	25.4	57.1	25.4	27.7	28.1	42.9	11.1	26.67
25	123.8	88.9	19.0	4	17.5	54.0	27.0	61.9	26.9	34.5	35.0	50.8	12.7	33.40
32	133.3	98.4	19.0	4	20.6	63.5	28.6	66.7	28.4	43.2	43.6	63.5	14.2	42.16
40	155.6	114.3	22.2	4	22.2	69.8	31.7	69.8	31.7	49.5	50.0	73.0	15.8	48.26
50	165.1	127.0	19.0	8	25.4	84.1	36.5	73.0	36.5	62.0	62.4	92.1	17.4	60.31
65	190.5	149.2	22.2	8	28.6	100.0	41.3	79.4	41.1	74.7	75.4	104.8	19.0	73.02
80	209.5	168.3	22.2	8	31.8	117.5	46.0	82.5	45.9	90.7	91.4	127.0	-	88.90
100	273.0	215.9	25.4	8	38.1	152.4	54.0	101.6	53.8	116.1	116.8	157.2	-	114.30
125	330.2	266.7	28.6	8	44.4	188.9	60.3	114.3	60.4	143.8	141.5	185.7	-	141.30
150	355.6	292.1	28.6	12	47.6	222.2	66.7	117.5	66.5	170.7	171.4	215.9	-	168.27
200	419.1	349.2	31.7	12	55.6	273.0	76.2	133.3	76.2	221.5	222.2	269.9	-	219.07
250	508.0	431.8	34.9	16	63.5	342.9	85.7	152.4	111.2	276.3	277.3	323.8	-	273.05
300	558.8	488.9	34.9	20	66.7	400.0	92.1	155.6	117.3	327.1	328.1	381.0	-	323.85
350	603.2	527.0	38.1	20	69.9	431.8	93.7	165.1	127.0	359.1	360.1	412.7	-	355.60
400	685.8	603.2	41.3	20	76.2	495.3	106.4	177.8	139.7	410.5	411.2	469.9	-	406.40
450	742.9	654.0	44.4	20	82.6	546.1	117.5	184.1	152.4	461.8	462.2	533.4	-	457.20
500	812.8	723.9	44.4	24	88.9	609.6	127.0	190.5	165.1	513.1	514.3	584.2	-	508.00
600	939.8	838.2	50.8	24	101.6	717.5	139.7	203.2	184.1	615.9	615.9	692.1	-	609.60

DIMENSIONS OF CLASS 900 FLANGES AS PER B 16.5

Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	No. of Bolt Holes D	No. of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	120.6	82.5	22.2	4	22.2	38.1	31.7	60.3	31.7	22.3	22.8	34.9	9.5	21.33
20	130.2	88.9	22.2	4	25.4	44.4	34.9	69.8	35.0	27.7	28.1	42.9	11.1	26.67
25	149.2	101.6	25.4	4	28.6	52.4	41.3	73.0	41.1	34.5	35.0	50.8	12.7	33.40
32	158.7	111.1	25.4	4	28.6	63.5	41.3	73.0	41.1	43.2	43.6	63.5	14.2	42.16
40	177.8	123.8	28.6	4	31.8	69.8	44.4	82.5	44.4	49.5	50.0	73.0	15.8	48.26
50	215.9	165.1	25.4	8	38.1	104.8	57.1	101.6	57.1	62.0	62.4	92.1	17.4	60.31
65	244.5	190.5	28.6	8	41.3	123.8	63.5	104.8	63.5	74.7	75.4	104.8	19.0	73.02
80	241.3	190.5	25.4	8	38.1	127.0	53.9	101.6	53.8	90.7	91.4	127.0	-	88.90
100	292.1	234.9	31.7	8	44.4	158.7	69.8	114.3	69.8	116.0	116.8	157.1	-	114.30
125	349.2	279.4	35.0	8	50.8	190.5	79.3	127.0	79.2	143.7	144.5	185.7	-	141.30
150	381.0	317.5	31.7	12	55.6	234.9	85.8	139.7	85.8	170.6	171.4	215.9	-	168.27
200	469.9	393.7	38.1	12	63.5	298.4	101.6	162.0	114.3	221.4	222.2	269.8	-	219.07
250	546.1	469.9	38.1	16	69.8	368.3	107.9	184.1	127.0	276.3	277.3	323.8	-	273.05
300	609.6	533.4	38.1	20	79.3	419.1	117.4	200.0	142.7	327.1	328.1	381.0	-	323.85

Metric values are direct conversion from Inches table of B16.5

RF Thickness 6.3 mm Extra to be provided (Except Lap Joint Flange & FF Flanges).



DIMENSIONS OF CLASS 1500 FLANGES AS PER B16.5

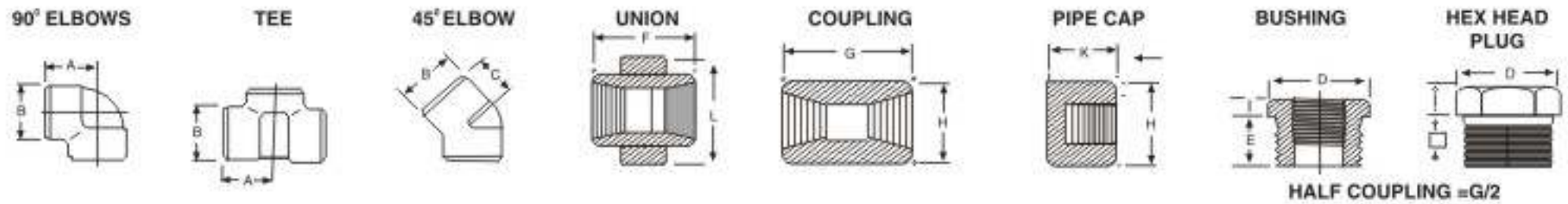
Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. Of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	120.6	82.5	22.2	4	22.2	38.1	31.7	60.3	31.7	22.3	22.8	34.9	9.5	21.33
20	130.2	88.9	22.2	4	25.4	44.4	34.9	69.8	34.9	27.7	28.1	42.9	11.1	26.67
25	149.2	101.6	25.4	4	28.6	52.4	41.3	73.0	41.3	34.5	35.0	50.8	12.7	33.40
32	158.7	111.1	25.4	4	28.6	63.5	41.3	73.0	41.3	43.2	43.6	63.5	14.2	42.16
40	177.8	123.8	28.6	4	31.8	69.8	44.4	82.5	44.4	49.5	50.0	73.0	15.8	48.26
50	215.9	165.1	25.4	8	38.1	104.8	57.1	101.6	57.1	62.0	62.0	92.1	17.4	60.31
65	244.5	190.5	28.6	8	41.3	123.8	63.5	104.8	63.5	74.7	75.4	104.8	19.0	73.02
80	266.7	203.2	31.7	8	47.6	133.3	73.0	117.5	73.0	90.7	91.4	127.0	-	88.90
100	311.1	241.3	34.9	8	54.0	161.9	90.5	123.0	90.4	116.1	116.8	157.2	-	114.30
125	374.6	292.1	41.3	8	73.0	196.8	104.8	155.6	104.8	143.8	144.5	185.7	-	141.30
150	393.7	317.5	38.1	12	82.6	228.6	119.1	171.4	119.1	170.7	171.4	215.9	-	168.27
200	482.6	393.7	44.4	12	92.1	292.1	142.9	212.7	142.8	221.5	222.2	269.9	-	219.07
250	584.2	482.6	50.8	12	107.9	368.3	158.7	254.0	177.8	276.3	277.3	323.8	-	273.05
300	673.1	571.5	54.0	16	123.8	450.8	181.0	285.5	218.9	327.1	328.1	381.0	-	323.85

DIMENSIONS OF CLASS 2500 FLANGES AS PER B16.5

Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. Of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	133.3	88.9	22.2	4	30.2	42.9	39.7	73.0	39.7	22.3	22.3	34.9	-	21.33
20	139.7	95.2	22.2	4	31.7	50.8	42.9	79.4	42.9	27.7	27.7	42.9	-	26.67
25	158.7	107.9	25.4	4	34.9	57.1	47.7	88.9	47.7	34.5	34.5	50.8	-	33.40
32	184.1	130.2	28.6	4	38.1	73.0	52.4	95.2	52.4	43.2	43.2	63.5	-	42.16
40	203.2	146.0	31.7	4	44.4	79.4	60.3	111.1	60.3	49.5	49.5	73.0	-	48.26
50	234.9	171.4	28.6	8	50.8	95.2	69.8	127.0	69.8	62.4	62.0	92.1	-	60.31
65	266.7	196.8	31.7	8	57.1	114.3	79.4	142.9	79.4	74.7	74.7	104.8	-	73.02
80	304.8	228.6	34.9	8	66.7	133.3	92.1	168.3	92.1	90.7	90.7	127.0	-	88.90
100	355.6	273.0	41.3	8	76.2	165.1	107.9	190.5	107.9	116.1	116.1	157.2	-	114.30
125	419.1	323.8	47.6	8	92.1	203.2	130.0	228.6	130.0	143.8	143.8	185.7	-	141.30
150	482.6	368.3	54.0	8	107.9	234.9	152.4	273.0	152.4	170.7	170.7	215.9	-	168.27
200	552.4	438.1	54.0	12	127.0	304.8	177.8	317.5	177.8	221.5	221.5	269.9	-	219.07
250	673.1	539.7	66.7	12	165.1	374.6	228.6	419.1	228.6	276.3	276.3	323.8	-	273.05
300	762.0	619.1	73.0	12	184.1	441.3	254.0	463.5	254.0	327.1	327.1	381.0	-	323.85

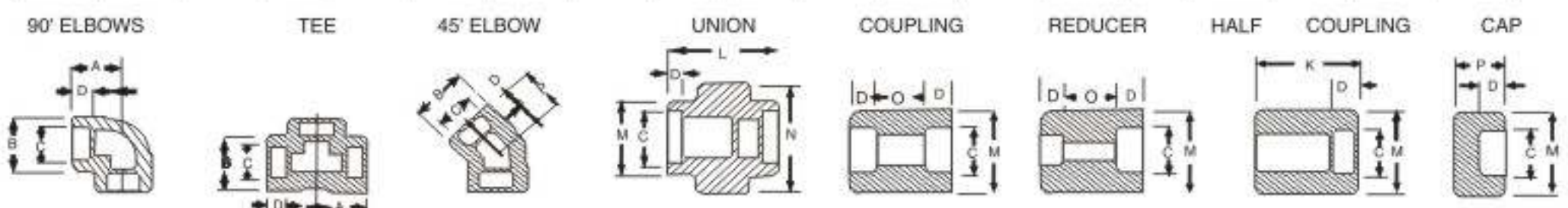
Metric values are direct conversion from inches table of B16.5

RF Thickness 6.3 mm Extra to be provided (Except Lap Joint Flange & FF Flanges).



DIMENSION IN MM OF FORGED SCREWED FITTINGS TO ANSI B-16.11 THREADED TO ASA B 2.1

NOM BORE	PIPE O.D.	3000 L.B.S.						COMMON FACTORS						6000 L.B.S					
		A	B	C	G	H	K	D	E	F	I	J	L	A	B	C	G	H	K
1/8"	10.3	21	22	17	32	16	19	11	10	40	-	6	-	25	25	19	32	22	-
1/4"	13.7	25	25	19	35	19	25	16	11	43	3	6	32	29	33	22	35	25	27
3/8"	17.2	29	33	22	38	22	25	17.5	13	48	4	8	38	33	38	25	38	32	27
1/2"	21.3	33	38	25	48	29	32	22	15	51	5	8	46	38	46	29	48	38	33
3/4"	26.7	38	46	29	51	35	37	27	16	57	6	10	51	44	56	33	51	44	38
1"	33.4	44	56	33	60	44	41	35	19	64	6	10	60	51	62	35	60	57	43
1 1/4"	42.2	51	62	35	67	57	44	44.5	21	70	7	14	72	60	75	43	67	64	46
1 1/2"	48.3	60	75	43	79	64	44	51	21	79	8	16	80	64	84	44	79	76	48
2"	60.3	64	84	45	86	76	48	63.5	22	88	9	17	94	83	102	52	86	92	51
2 1/2"	73.02	83	102	52	92	92	60	76	27	118	10	21	122	95	121	64	92	108	64
3"	89.0	95	121	64	108	108	65	89	29	121	10	25	140	106	146	79	108	127	68
4"	114.5	114	152	79	121	140	68	117.5	32	150	13	25	180	114	152	79	121	159	75



SOCKET WELD FITTING TO ANSI B-16.11

NOM BORE	PIPE O.D.	3000 L.B.S.						COMMON FACTORS						6000 L.B.S					
		A	B	K	J	L	M	N	P	Q	C	D	O	O	A	B	M	K	N
1/8"	10.3	22	18.5	26	16	40	17.3	32	17.5	10	10.7	10	5	8	22	22	20	25	46
1/4"	13.7	22	22	26	18	43	21.2	32	17.5	10	14.1	10	5	8	27	25	24	25	51
3/8"	17.2	25	25	26	19	48	25.4	36	19	10	17.6	10	3	9	27	28	28	26	60
1/2"	21.3	27	32	30	21	51	31	43	22	10	21.7	10	6	13	31	34	34	31	72
3/4"	26.7	34	38	36	24	57	37	50	25	13	27	13	6	13	37	42	41	35	80
1"	33.4	37	46	40	25	64	45.2	60	27	13	33.8	13	9	17	42	50	50	40	94
1 1/4"	42.2	42	56	40	29	70	55	70	30	13	42.6	13	9	17	47	59	58	41	100
1 1/2"	48.3	47	62	40	30	79	61.4	78	32	13	48.7	13	9	17	53	67	66	43	122
2"	60.3	56	75	52	37	89	75	95	38	13	61.2	16	15	23	59	84	83	55	
2 1/2"	73.02	60	92	52	48	114	91.3	125	38	16	73.8	16	14	24		102		56	
3"	89.00	76	110	52	51	127	108.8	140	44	16	89.8	16	14	24		121		58	
4"	114.50	88	137	58		150	136.9		48	19	115.5	19	14	24		152		64	

DIMENSIONS AND OTHERS SPECIFICATIONS AS PER CUSTOMERS REQUIREMENTS ARE AVAILABLE ON REQUEST


STAINLESS STEEL PIPE DIMENSION & WEIGHT-KG. PER MTR. (ANSI B36.19)

Nominal Bore		Outside Diameter	Schedule 5S		Schedule 10S		Schedule 40S		Schedule 80S		Schedule 160S		Schedule XXS	
mm	INCH	mm	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)
3	1/8	10.3	1.24	0.276	1.24	0.28	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.24	0.390	1.65	0.49	2.24	0.631	3.02	0.80	-	-	-	-
10	3/8	17.1	1.24	0.490	1.65	0.63	2.31	0.845	3.20	1.10	-	-	-	-
15	1/2	21.3	1.65	0.800	2.11	1.00	2.77	1.27	3.75	1.62	4.75	1.94	7.47	2.55
20	3/4	26.7	1.65	1.03	2.11	1.28	2.87	1.68	3.91	2.20	5.54	2.89	7.82	3.63
25	1	33.4	1.65	1.30	2.77	2.09	3.38	2.50	4.55	3.24	6.35	4.24	9.09	5.45
32	1 1/4	42.2	1.65	1.65	2.77	2.70	3.56	3.38	4.85	4.47	6.35	5.61	9.70	7.77
40	1 1/2	48.3	1.65	1.91	2.77	3.11	3.68	4.05	5.08	5.41	7.14	7.25	10.16	9.54
50	2	60.3	1.65	2.40	2.77	3.93	3.91	5.44	5.54	7.48	8.74	11.1	11.07	13.44
65	2 1/2	73.0	2.11	3.69	3.05	5.26	5.16	8.63	7.01	11.4	9.53	14.9	14.2	20.39
80	3	88.9	2.11	4.51	3.05	6.45	5.49	11.30	7.62	15.2	11.1	21.3	15.24	27.65
100	4	114.3	2.11	5.84	3.05	8.36	6.02	16.07	8.56	22.3	13.49	33.54	17.12	41.03
125	5	141.3	2.77	9.47	3.40	11.57	6.55	21.8	9.53	31.97	15.88	49.11	19.05	57.43
150	6	168.3	2.77	11.32	3.40	13.84	7.11	28.3	10.97	42.7	18.2	67.56	21.95	79.22
200	8	219.1	2.77	14.79	3.76	19.96	8.18	42.6	12.7	64.6	23.0	111.2	22.23	107.8
250	10	273.1	3.40	22.63	4.19	27.78	9.27	60.5	12.7	96.0	28.6	172.4	25.40	155.15
300	12	323.9	3.96	31.25	4.57	36.00	9.52	73.88	12.7	132.0	33.32	238.76	25.40	186.97
350	14	355.6	3.96	34.36	4.78	41.3	11.13	94.59	19.05	158.08	35.71	281.70	-	-
400	16	406.4	4.19	41.56	4.78	47.29	12.7	123.30	21.41	203.33	40.46	365.11	-	-
450	18	457.2	4.19	46.80	4.78	53.42	14.27	155.80	23.8	254.36	45.71	466.40	-	-
500	20	508.0	4.78	59.25	5.54	68.71	15.09	183.42	26.19	311.2	49.99	564.68	-	-
600	24	609.6	5.54	82.47	6.35	94.45	17.48	255.41	30.96	442.08	59.54	808.22	-	-

CARBON STEEL SEAMLESS PIPE DIMENSION & WEIGHT - KG. PER MTR. (ANSI B 36.10)

Nominal Pipe size		O/D	Schedule 10		Schedule 20		Schedule 30		Schedule STD		Schedule 40		Schedule 60		Schedule Extra Strong (XS)		Schedule 80		Schedule 100		Schedule 120		Schedule 140		Schedule 160		Schedule Double Extra Strong (XXS)									
mm	inch	mm	mm	kg/m	mm	kg/m	mm	kg/m	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.								
3	1/8	10.3							1.73	0.37	1.73	0.37			2.41	0.47	2.41	0.47																		
6	1/4	13.7							2.24	0.63	2.24	0.63			3.02	0.80	3.02	0.80																		
10	3/8	17.1							2.31	0.84	2.31	0.84			3.20	1.10	3.20	1.10																		
15	1/2	21.3							2.77	1.27	2.77	1.27			3.73	1.62	3.73	1.62							4.78	1.95	7.5	2.55								
20	3/4	26.7							2.87	1.69	2.87	1.69			3.91	2.20	3.91	2.20							5.6	2.90	7.82	3.64								
25	1	33.4							3.38	2.50	3.38	2.50			4.55	3.24	4.55	3.24							6.35	4.24	9.1	5.45								
32	1 1/4	42.2							3.56	3.39	3.56	3.39			4.85	4.47	4.85	4.47							6.35	5.61	9.7	7.77								
40	1 1/2	48.3							3.68	4.05	3.68	4.05			5.08	5.41	5.08	5.41							7.14	7.25	10.2	9.56								
50	2	60.3							3.91	5.44	3.91	5.44			5.54	7.48	5.54	7.48							8.74	11.11	11.07	13.4								
65	2 1/2	73.0							5.16	8.63	5.16	8.63			7.01	11.41	7.01	11.41							9.53	14.92	14.0	20.4								
80	3	88.9							5.49	11.3	5.49	11.3			7.62	15.27	7.62	15.3							11.13	21.35	15.24	27.7								
90	3 1/2	101.6							5.74	13.57	5.74	13.57			8.08	18.63	8.08	18.63							-		16.2	34.1								
100	4	114.3							6.02	16.07	6.02	16.07			8.56	22.3	8.56	22.3			11.13	28.32			13.5	33.5	17.12	41.03								
125	5	141.3							6.55	21.77	6.55	21.77			9.53	30.9	9.53	30.9			12.7	40.2			15.9	49.11	19.0	57.4								
150	6	168.3							7.11	28.26	7.11	28.26			10.97	42.5	10.97	42.5			14.3	54.2			18.3	67.5	21.95	79.22								
200	8	219.1			6.35	33.3	7.0	36.8	8.18	42.5	8.18	42.55	10.31	53.10	12.7	64.6	12.7	64.5	15.1	75.92	18.3	90.4	20.6	100.9	23.0	111.27	22.23	108.0								
250	10	273.0			6.35	41.7	7.8	51.3	9.27	60.3	9.27	60.31	12.70	81.50	12.7	81.5	15.1	96.0	18.3	114.7	21.44	133.0	25.4	155	28.6	172.3	25.4	155.0								
300	12	323.9			6.35	49.7	8.4	65.2	9.53	73.8	10.31	79.73	14.30	109.0	12.7	97.4	17.5	132.0	21.4	160.0	25.4	187.0	28.6	208	33.3	238.7	25.4	187.0								
350	14	355.6	6.35	54.6	7.92	67.9	9.53	81.3	9.53	81.3	11.13	94.55	15.10	126.4	12.7	107.4	19.0	158.0	23.8	195.0	27.8	224.0	31.8	253.5	35.7	281.7										
400	16	406.4	6.35	62.6	7.92	77.9	9.53	93.3	9.53	93.3	12.7	123.3	16.70	160.0	12.7	123.3	21.44	203.5	26.2	245.5	30.9	286.6	36.53	333	40.5	365.4										
450	18	457.0	6.35	70.5	7.92	87.7	11.13	122.4	9.53	105.0	14.27	156.0	19.05	206.0	12.7	139.0	23.8	254.6	29.36	309.6	34.9	363.6	39.7	408.3	45.2	459.4										
500	20	508.0	6.35	78.5	9.53	117.2	12.7	155.1	9.53	117.2	15.09	183.4	20.62	248.5	12.7	155.1	26.2	311.2	32.54	381.5	38.1	441.5	44.4	508	50.0	564.8										
550	22	559.0	6.35	86.5	9.53	129.0	12.7	171.0	9.53	129.0			22.20	294.0	12.7	171.0	28.6	373.8	34.9	451.4	41.3	527.0	47.6	600	54.0	672.0										
600	24	610.0	6.35	94.5	9.53	141.0	14.3	209.7	9.53	141.0	17.48	255.4	24.61	355.0	12.7	187.0	30.96	442.08	38.89	547.7	46.0	640.0	52.4	720.15	59.5	808.22										
650	26	660.0	7.92	127.0	12.7	203.0			9.53	153.0					12.7	202.7	A 106 Gr B																			
700	28	711.0	7.92	137.4	12.7	218.7	15.88	271.2	9.53	165.0					12.7	218.7																				
750	30	762.0	7.92	147.3	12.7	234.6	15.88	292.18	9.53	176.8					12.7	234.7																				
800	32	813.0	7.92	157.0	12.7	250.6	15.88	312.0	9.53	188.2	17.48	342.9			12.7	250.6																				
850	34	864.0	7.92	167.0	12.7	266.6	15.88	332.1	9.53	200.3	17.48	364.9			12.7	266.6																				
900	36	914.4	7.92	176.9	12.7	282.3	15.88	351.7	9.53	212.5	19.05	420.4			12.7	282.2	A 333 Gr 6																			
																	AISI 4130																			

QUALITY ASSURANCE

Every manufacturing phase is carried out with modern technique and is under the surveillance of our quality team that ensures all our products meet the national / international standards.

"NO COMPROMISE IN QUALITY" IS OUR MOTTO

Thus, main goal of SSI is high quality products. We have adopted quality analyst personnel to ensure complete satisfaction to our clients. As there is always a scope of betterment we are continually improving upon quality of products.

We have a stringent parameters set for the quality which are followed by all our employees. They see to it that the products are in accordance with the national / international standards.

From the time of procurement of raw material till the final delivery of the products, at every stage, our products are checked for various chemical and mechanical properties using the equipment certified by the Government and its agencies.

THIRD PARTY INSPECTION



Larsen & Toubro Ltd.



Nuclear Power Corp.
of India Ltd.

I.B.R.

MIC-INDIA

**TUV
INDIA**



DET NORSKE VERITAS



TATA Project



PDIL



Electromech Engg.



Dept. of Atomic Energy



SIMPLEX
STEEL INDUSTRIES
AN ISO 9001:2008 CERTIFIED CO .

Manufacturer & Suppliers of : Buttweld Fittings, Forged Fittings, Flanges

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