



# RISING FERROMATE PRIVATE LIMITED

AN ISO 9001:2015 CERTIFIED CO.

Manufacturer of

CS, AS, MS, SS & Nickel Alloys But Weld & Socket Weld, Pipe Fittings and Flanges





# WELCOME TO OUR FACTORY



FACTORY



Rising Ferromate Private Limited is an ISO 9001 -2015 certified company

We are a manufacturer of Pipe- Fittings and Flanges. Our manufacturing units are located in the industrial area of Taloja MIDC Navi Mumbai, Maharashtra and having plant of 15000 Sq Ft with Modern Equipments And Technology

Our Range Of Products Are As Follows

1. PIPE - FITTINGS –Size 15 NB TO 500 NB - BW Fittings, SW Fittings , Threaded Fittings , Forged Fittings

2. FORGED FLANGES – Size 15 NB TO 600 NB Flanges Slip on flange, Blind flange, Lap Joint flange , Weld neck Flanges, Socket Weld flanges , Spectacles flanges , SOFF , BLFF Ring Joint

MATERIAL CONSTRUCTION :

CARBON STEEL A105 , ASTM A36, ASTM 516 Gr.60/70

STAINLESS STEEL : A182 F 304,304L, 310, 316 , 316L 317 , 317L,321, 310,S32205 (DUPLEX), S322507(SUPER DUPLEX)

ALLOY STEEL : A182 F1,F5,F9,F11,F12,LF2.....

We are committed to serve our customer's sourcing needs of the above products with our Quality products as well as our service. Our clients are our most valuable assets and for that we use our skilled team and modern technology and equipment to fulfill their needs.

We learned our experience working with our reputed clients of industries like Chemical and Pharma, Food Processing, Oil & Gas, Petrochemicals, Heavy Engineering, Waste Water management, Hydraulics, Heavy Fabrication Etc.

As we are very much interested to do business with you on long term basis, we request you to please enlist our name in your approved vendor list and send us your valuable requirements and give a opportunity to submit our competitive rates and delivery terms



## OUR CUSTOMERS

### Chemical & Pharma Industries



### Oil & Gas, Petro Chemical & Sugar Industries



### Power & Heavy Industries



OUR CUSTOMERS

Our Associate NABL Approved  
Lab Material Inspection Laboratory Sivree Mumbai  
Earth Metallurgical Serviced Pvt. Ltd Taloja



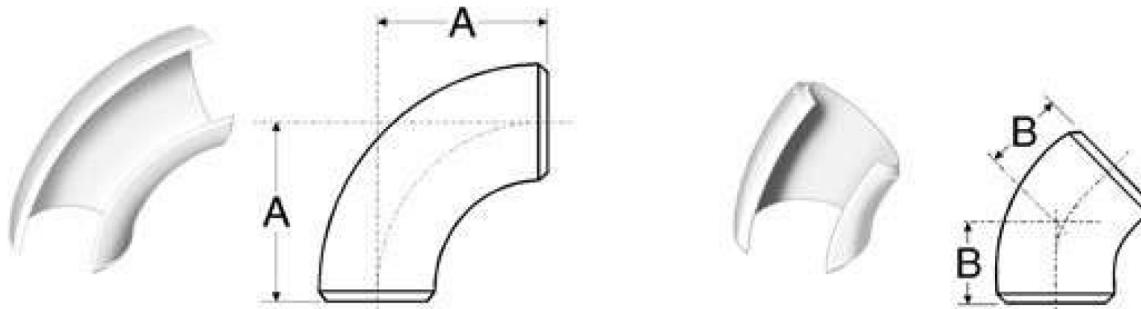
QUALITY CONTROL

1. BRINELL HARDNESS TEST
2. SPECTROMETER (P.M.I TEST)
3. IMPACT TEST
4. SHORE IMPACT TEST
5. UNIVERSAL TEST
6. SURFACE ROUGHNESS TEST
7. METAL LAB. (P.M.I TEST)
8. UT TRASONIC TEST



# Butt Weld Fittings

Range/Sizes - 90° and 45° Long Radius Elbows - ANSI B16.9



Dimensions (based on ASME/ANSI B16.9) and example weights for long radius elbows

Nominal Pipe Size	Common		90° Elbow			45° Elbow		
	OD at Bevel		A		40S/STD <sup>1</sup>	B		40S/STD <sup>1</sup>
	in	mm	in	mm	kg/piece	in	mm	kg/piece
1/2	0.84	21	1.50	38	0.08	0.62	16	0.04
3/4	1.05	27	1.50	38	0.10	0.75	19	0.05
1	1.32	33	1.50	38	0.15	0.88	22	0.07
1 1/4	1.66	42	1.88	48	0.25	1.00	25	0.12
1 1/2	1.90	48	2.25	57	0.36	1.12	29	0.18
2	2.38	60	3.00	76	0.65	1.38	35	0.32
2 1/2	2.88	73	3.75	95	1.29	1.75	44	0.64
3	3.50	89	4.50	114	2.02	2.00	51	1.01
3 1/2	4.00	102	5.25	133	2.83	2.25	57	1.41
4	4.50	114	6.00	152	3.84	2.50	64	1.92
5	5.56	141	7.50	190	6.51	3.12	79	3.25
6	6.62	168	9.00	229	10.1	3.75	95	5.05
8	8.62	219	12.00	305	20.3	5.00	127	10.15
10	10.75	273	15.00	381	36.0	6.25	159	18.0
12	12.75	324	18.00	457	53.0	7.50	190	26.5
14	14.00	356	21.00	533	68.0	8.75	222	34.0
16	16.00	406	24.00	610	89.2	10.00	254	44.6
18	18.00	457	27.00	686	113.0	11.25	286	56.5
20	20.00	508	30.00	762	140.0	12.50	318	70.0
22	22.00	559	33.00	838	170.0	13.50	343	85.0
24	24.00	610	36.00	914	202.0	15.00	381	101.0
26	26.00	660	39.00	991	241.4	16.00	406	120.5
28	28.00	711	42.00	1067	279.9	17.25	438	140.0
30	30.00	762	45.00	1143	321.3	18.50	470	160.5
32	32.00	813	48.00	1219	365.6	19.75	502	183.0
34	34.00	864	51.00	1295	-	21.00	533	-
36	36.00	914	54.00	1372	462.7	22.25	565	231.0
38	38.00	965	57.00	1448	-	23.62	600	-
40	40.00	1016	60.00	1524	571.3	24.88	632	285.5
42	42.00	1067	63.00	1600	629.8	26.00	660	315.0
44	44.00	1118	66.00	1676	-	27.38	695	-
46	46.00	1168	69.00	1753	-	28.62	727	-
48	48.00	1219	72.00	1829	-	29.88	759	-

**Notes**

- Dimensions quoted in mm are 'Nominal' values from B16.9 (i.e. rounded equivalents of the inch dimensions). Refer to ASME/ANSI B16.9 for additional 'Max' and 'Min' metric dimensions.
- For tolerances see page 3-14.
- <sup>1</sup> Weights are approximate and based on manufacturers' data (where available) for Schedule 40S/Standard fittings. See page 3-15 for further information.



# Butt Weld Fittings

## Range/Sizes - Equal Tees - ANSI B16.9



### Dimensions (based on ASME/ANSI B16.9) and example weights for equal tees

Nominal Pipe Size	OD at Bevelled		Run		Outlet		Weight (Tees only)
	OD		A		B		40S/STD <sup>1</sup>
	in	mm	in	mm	in	mm	kg/piece
1/2	0.84	21	1.00	25	1.00	25	0.08
3/4	1.05	27	1.12	29	1.12	29	0.11
1	1.32	33	1.50	38	1.50	38	0.24
1 1/4	1.66	42	1.88	48	1.88	48	0.41
1 1/2	1.90	48	2.25	57	2.25	57	0.60
2	2.38	60	2.50	64	2.50	64	0.87
2 1/2	2.88	73	3.00	76	3.00	76	1.66
3	3.50	89	3.38	86	3.38	86	1.90
3 1/2	4.00	102	3.75	95	3.75	95	-
4	4.50	114	4.12	105	4.12	105	4.13
5	5.56	141	4.88	124	4.88	124	6.55
6	6.62	168	5.62	143	5.62	143	9.73
8	8.62	219	7.00	178	7.00	178	18.0
10	10.75	273	8.50	216	8.50	216	30.8
12	12.75	324	10.00	254	10.00	254	44.3
14	14.00	356	11.00	279	11.00	279	53.7
16	16.00	406	12.00	305	12.00	305	66.3
18	18.00	457	13.50	343	13.50	343	84.1
20	20.00	508	15.00	381	15.00	381	104
22	22.00	559	16.50	419	16.50	419	126
24	24.00	610	17.00	432	17.00	432	140
26	26.00	660	19.50	495	19.50	495	158
28	28.00	711	20.50	521	20.50	521	176
30	30.00	762	22.00	559	22.00	559	203
32	32.00	813	23.50	597	23.50	597	231
34	34.00	864	25.00	635	25.00	635	-
36	36.00	914	26.50	673	26.50	673	294
38	38.00	965	28.00	711	28.00	711	-
40	40.00	1016	29.50	749	29.50	749	363
42	42.00	1067	30.00	762	28.00	711	382
44	44.00	1118	32.00	813	30.00	762	-
46	46.00	1168	33.50	851	31.50	800	-
48	48.00	1219	35.00	889	33.00	838	-

**Notes**

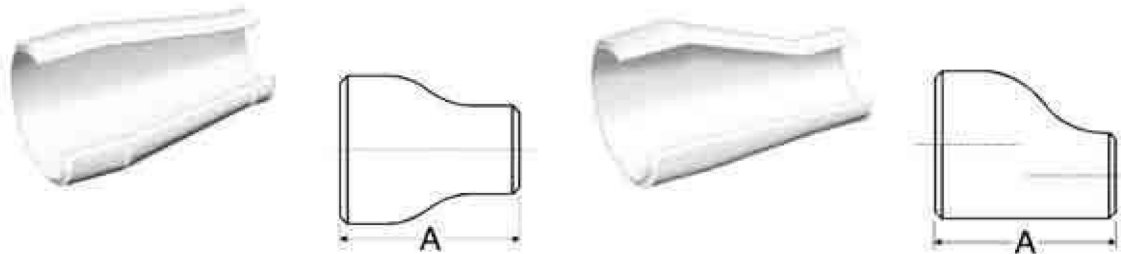
- For NPS 26 and larger: Dimensions are not applicable to crosses. Also, dimension B is recommended but not required.
- Dimensions quoted in mm are 'Nominal' values from B16.9 (i.e. rounded equivalents of the inch dimensions). Refer to B16.9 for additional 'Max' and 'Min' metric dimensions.
- For tolerances see page 3-14.

<sup>1</sup> Weights are approximate and based on manufacturers' data (where available) for Schedule 40S/Standard fittings. See page 3-15 for further information.



# Butt Weld Fittings

## Range/Sizes - Concentric and Eccentric Reducers - ANSI B16.9



Dimensions (based on ASME/ANSI B16.9) and example weights for reducers

Nominal Pipe Size	Large End		Small End		End to End		Weight
	OD at Bevel		OD at Bevel		A		40S/STD <sup>1</sup>
	in	mm	in	mm	in	mm	kg/piece
3/4⇒1/2	1.05	27	0.84	21	1.50	38	0.06
3/4⇒3/8	1.05	27	0.68	17	1.50	38	-
1⇒3/4	1.32	33	1.05	27	2.00	51	0.12
1⇒1/2	1.32	33	0.84	21	2.00	51	0.11
1 1/4⇒1	1.66	42	1.32	33	2.00	51	0.16
1 1/4⇒3/4	1.66	42	1.05	27	2.00	51	0.14
1 1/4⇒1/2	1.66	42	0.84	21	2.00	51	0.13
1 1/2⇒1 1/4	1.90	48	1.66	42	2.50	64	0.24
1 1/2⇒1	1.90	48	1.32	33	2.50	64	0.22
1 1/2⇒3/4	1.90	48	1.05	27	2.50	64	0.20
1 1/2⇒1/2	1.90	48	0.84	21	2.50	64	0.18
2⇒1 1/2	2.38	60	1.90	48	3.00	76	0.37
2⇒1 1/4	2.38	60	1.66	42	3.00	76	0.35
2⇒1	2.38	60	1.32	33	3.00	76	0.32
2⇒3/4	2.38	60	1.05	27	3.00	76	0.30
2 1/2⇒2	2.88	73	2.38	60	3.50	89	0.72
2 1/2⇒1 1/2	2.88	73	1.90	48	3.50	89	0.66
2 1/2⇒1 1/4	2.88	73	1.66	42	3.50	89	0.63
2 1/2⇒1	2.88	73	1.32	33	3.50	89	-
3⇒2 1/2	3.50	89	2.88	73	3.50	89	0.93
3⇒2	3.50	89	2.38	60	3.50	89	0.85
3⇒1 1/2	3.50	89	1.90	48	3.50	89	0.78
3⇒1 1/4	3.50	89	1.66	42	3.50	89	0.75
3 1/2⇒3	4.00	102	3.50	89	4.00	102	-
3 1/2⇒2 1/2	4.00	102	2.88	73	4.00	102	-
3 1/2⇒2	4.00	102	2.38	60	4.00	102	-
3 1/2⇒1 1/2	4.00	102	1.90	48	4.00	102	-
Reducers 3 1/2⇒1 1/4, and 4, 5, 6, & 8⇒3 1/2 are also available							
4⇒3 1/2	4.50	114	4.00	102	4.00	102	-
4⇒3	4.50	114	3.50	89	4.00	102	1.45
4⇒2 1/2	4.50	114	2.88	73	4.00	102	1.37
4⇒2	4.50	114	2.38	60	4.00	102	1.27
4⇒1 1/2	4.50	114	1.90	48	4.00	102	1.18
5⇒4	5.56	141	4.50	114	5.00	127	2.50
5⇒3	5.56	141	3.50	89	5.00	127	2.27
5⇒2 1/2	5.56	141	2.88	73	5.00	127	2.16
6⇒5	6.62	168	5.56	141	5.50	140	3.57
6⇒4	6.62	168	4.50	114	5.50	140	3.30
6⇒3	6.62	168	3.50	89	5.50	140	3.04
8⇒6	8.62	219	6.62	168	6.00	152	5.71
8⇒5	8.62	219	5.56	141	6.00	152	5.40
8⇒4	8.62	219	4.50	114	6.00	152	5.10
10⇒8	10.75	273	8.62	219	7.00	178	9.58
10⇒6	10.75	273	6.62	168	7.00	178	8.78
10⇒5	10.75	273	5.56	141	7.00	178	8.42



# Butt Weld Fittings

## Range/Sizes - Concentric and Eccentric Reducers - ANSI B16.9

Nominal Pipe Size	Large End		Small End		End to End		Weight
	OD at Bevel		OD at Bevel		A		40S/STD <sup>1</sup>
	in	mm	in	mm	in	mm	kg/piece
12⇒10	12.75	324	10.75	273	8.00	203	13.6
12⇒8	12.75	324	8.62	219	8.00	203	12.7
12⇒6	12.75	324	6.62	168	8.00	203	11.8
14⇒12	14.00	356	12.75	324	13.00	330	25.4
14⇒10	14.00	356	10.75	273	13.00	330	23.6
14⇒8	14.00	356	8.62	219	13.00	330	21.8
16⇒14	16.00	406	14.00	356	14.00	356	31.0
16⇒12	16.00	406	12.75	324	14.00	356	29.6
16⇒10	16.00	406	10.75	273	14.00	356	27.8
18⇒16	18.00	457	16.00	406	15.00	381	37.8
18⇒14	18.00	457	14.00	356	15.00	381	35.7
18⇒12	18.00	457	12.75	324	15.00	381	34.3
20⇒18	20.00	508	18.00	457	20.00	508	56.4
20⇒16	20.00	508	16.00	406	20.00	508	53.5
20⇒14	20.00	508	14.00	356	20.00	508	50.8
22⇒20	22.00	559	20.00	508	20.00	508	62.6
22⇒18	22.00	559	18.00	457	20.00	508	59.7
22⇒16	22.00	559	16.00	406	20.00	508	57.1
24⇒22	24.00	610	22.00	559	20.00	508	68.6
24⇒20	24.00	610	20.00	508	20.00	508	65.7
24⇒18	24.00	610	18.00	457	20.00	508	63.0
26⇒24	26.00	660	24.00	610	24.00	610	-
26⇒22	26.00	660	22.00	559	24.00	610	-
26⇒20	26.00	660	20.00	508	24.00	610	-
26⇒18	26.00	660	18.00	457	24.00	610	-
28⇒26	28.00	711	26.00	660	24.00	610	-
28⇒24	28.00	711	24.00	610	24.00	610	-
28⇒20	28.00	711	20.00	508	24.00	610	-
28⇒18	28.00	711	18.00	457	24.00	610	-
30⇒28	30.00	762	28.00	711	24.00	610	-
30⇒26	30.00	762	26.00	660	24.00	610	-
30⇒24	30.00	762	24.00	610	24.00	610	-
30⇒20	30.00	762	20.00	508	24.00	610	-
32⇒30	32.00	813	30.00	762	24.00	610	-
32⇒28	32.00	813	28.00	711	24.00	610	-
32⇒26	32.00	813	26.00	660	24.00	610	-
32⇒24	32.00	813	24.00	610	24.00	610	-
34⇒32	34.00	864	32.00	813	24.00	610	-
34⇒30	34.00	864	30.00	762	24.00	610	-
34⇒26	34.00	864	26.00	660	24.00	610	-
34⇒24	34.00	864	24.00	610	24.00	610	-
36⇒34	36.00	914	34.00	864	24.00	610	-
36⇒32	36.00	914	32.00	813	24.00	610	-
36⇒30	36.00	914	30.00	762	24.00	610	-
36⇒26	36.00	914	26.00	660	24.00	610	-
36⇒24	36.00	914	24.00	610	24.00	610	-

Reducers 38⇒36/34/32/30/28/26, 40⇒38/36/34/32/30, 42⇒40/38/36/34/32/30, 44⇒42/40/38/36, 46⇒44/42/40 and 48⇒46/44/42/40 are also available

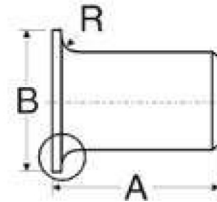
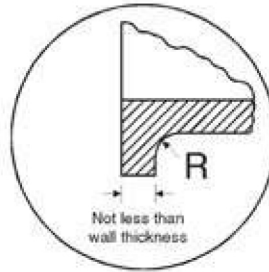
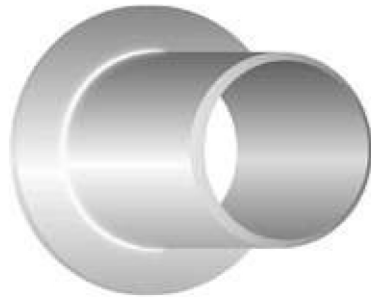
**Notes**

- Dimensions quoted in mm are 'Nominal' values from B16.9 (i.e. rounded equivalents of the inch dimensions). Refer to B16.9 for additional 'Max' and 'Min' metric dimensions.
- For tolerances see page 3-14.
- Other sizes listed in B16.9 are 5⇒2, 6⇒2 1/2, 10⇒4, 12⇒5, 14⇒6, 16⇒8, 18⇒10, 20⇒12, 22⇒14 and 24⇒16.
- 1 Weights are approximate and based on manufacturers' data (where available) for Schedule 40S/Standard fittings. See page 3-15 for further information.



# Butt Weld Fittings

## Range/Sizes - Lap Joint Stub Ends - ANSI B16.9



### Dimensions (based on ASME/ANSI B16.9) and example weights

Nominal Pipe Size	Common OD at Bevel		Long Pattern A		Short Pattern A		Diameter of Lap B		Radius of Fillet R		OD of Barrel				Weight 40S/STD <sup>1</sup> kg/piece
	in	mm	in	mm	in	mm	in	mm	in	mm	max	min	in	mm	
1/2	0.84	21	3.00	76	2.00	51	1.38	35	0.12	3	0.90	23	0.81	21	0.14
3/4	1.05	27	3.00	76	2.00	51	1.69	43	0.12	3	1.11	28	1.02	26	0.18
1	1.32	33	4.00	102	2.00	51	2.00	51	0.12	3	1.38	35	1.28	33	0.30
1 1/4	1.66	42	4.00	102	2.00	51	2.50	64	0.19	5	1.72	44	1.63	41	0.41
1 1/2	1.90	48	4.00	102	2.00	51	2.88	73	0.25	6	1.97	50	1.87	47	0.55
2	2.38	60	6.00	152	2.50	64	3.62	92	0.31	8	2.46	62	2.34	60	1.00
2 1/2	2.88	73	6.00	152	2.50	64	4.12	105	0.31	8	2.97	75	2.84	72	1.56
3	3.50	89	6.00	152	2.50	64	5.00	127	0.38	10	3.60	91	3.47	88	2.15
3 1/2	4.00	102	6.00	152	3.00	76	5.50	140	0.38	10	4.10	104	3.97	101	-
4	4.50	114	6.00	152	3.00	76	6.19	157	0.44	11	4.59	117	4.47	114	3.05
5	5.56	141	8.00	203	3.00	76	7.31	186	0.44	11	5.68	144	5.53	141	5.30
6	6.62	168	8.00	203	3.50	89	8.50	216	0.50	13	6.74	171	6.59	168	6.90
8	8.62	219	8.00	203	4.00	102	10.62	270	0.50	13	8.74	222	8.59	218	10.45
10	10.75	273	10.00	254	5.00	127	12.75	324	0.50	13	10.91	277	10.72	272	18.15
12	12.75	324	10.00	254	6.00	152	15.00	381	0.50	13	12.91	328	12.72	323	22.25
14	14.00	356	12.00	305	6.00	152	16.25	413	0.50	13	14.17	360	13.97	355	29.05
16	16.00	406	12.00	305	6.00	152	18.50	470	0.50	13	16.18	411	15.97	406	32.69
18	18.00	457	12.00	305	6.00	152	21.00	533	0.50	13	18.19	462	17.97	456	38.60
20	20.00	508	12.00	305	6.00	152	23.00	584	0.50	13	20.24	514	19.97	507	42.68
22	22.00	559	12.00	305	6.00	152	25.25	641	0.50	13	22.24	565	21.97	558	-
24	24.00	610	12.00	305	6.00	152	27.25	692	0.50	13	24.24	616	23.97	609	51.30

#### Notes

- Dimensions quoted in mm are 'Nominal' values from B16.9 (rounded equivalents of the inch dimensions). Refer to B16.9 for additional 'Max' and 'Min' metric dimensions.
  - OD of barrel max and min dimensions (in and mm) are rounded. Refer to B16.9 for the exact values.
  - Long pattern stub ends are standard. Purchaser should specify if short pattern is required. Long pattern stub ends are also known as ASA Stub Ends. Short pattern stub ends are used with larger flanges in Classes 300 and 600, and with most sizes in Class 900 and higher. When long pattern stub ends are used with flanges in Classes 1500 and 2500, it may be necessary to increase the length A.
  - Additional lap thickness must be provided for special facings (e.g. tongue and groove); this is within length A.
  - Dimension B conforms to ASME/ANSI B16.5, Pipe Flanges and Forged Fittings.
  - Gasket face finish shall be accordance with ASME/ANSI B16.5 for raised face flanges.
  - For tolerances see page 3-14.
- <sup>1</sup> Long pattern weights are listed (short pattern weights are similar to MSS SP-43 lap joint stub ends, page 3-11). Weights are approximate and based on manufacturers' data (where available) for Schedule 40S/Standard fittings. See page 3-15 for further information.



# Butt Weld Fittings

## Specifications - General

### Applicable specifications

Specifications applicable to butt welding fittings are as follows:

- **ASME/ANSI B16.9-2007** - Factory-made wrought steel butt welding fittings.
- **ASME/ANSI B16.28-1997** - Wrought steel butt welding short radius elbows and returns.
- **MSS SP-43 1991**, Reaffirmed 1996 - Wrought stainless steel butt welding fittings. This applies to 5S, 10S, and 40S wall thicknesses only.
- **ASME/ANSI B16.25-1997** - Butt welding ends. This defines various weld bevel designs and dimensions, beyond the scope of this manual.
- **Wall Thicknesses.** Fittings are manufactured to match the wall thicknesses of pipe.
- **Weights** quoted in the fitting tables are based on manufacturers' data and are approximate. Actual weights may vary from those quoted depending on the type of construction. For austenitic and duplex stainless steel, multiply the quoted weight by 1.014. For ferritic and martensitic stainless steel, multiply the quoted weight by 0.985.

### Manufacture and test

- **Materials and Manufacture.** ASME/ANSI and MSS stainless steel butt welding fittings are most commonly manufactured to ASTM A403.
- **Production Testing.** Test requirements are defined in ASTM A430.
- **ASME/ANSI Test Requirements.** B16.9 and B16.28 do not require production testing of fittings although they must be capable of withstanding the rated pressure:

**Pressure Ratings.** The rated pressure is as for straight seamless pipe of equivalent NPS, wall thickness and material.

**Proof testing** to qualify the fitting design comprises a bursting strength test. The fitting is required to withstand, without rupture, 105% of the pressure P given by:  $P = (2St) / D$   
where

S= Actual ultimate tensile strength of a specimen from a representative fitting.

t = Nominal wall thickness

D = Outside diameter

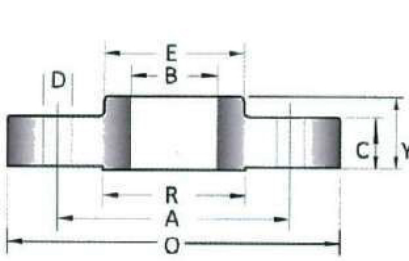
- **MSS SP-43 Test Requirements.** SP-43 does not require hydrostatic testing of fittings although they must be capable of withstanding 1.5 times the pressure ratings at 100 °F:

**Pressure Ratings.** Fittings produced to MSS SP-43 have the pressure ratings shown in this table.

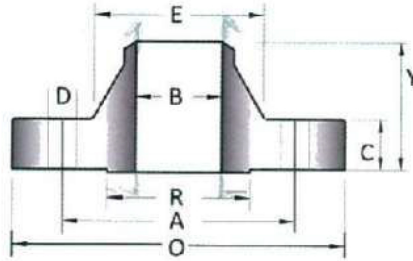
Temperature	Schedule 5S	Schedule 10S
°F	Pressure, psi	
100	225	275
150	215	255
200	200	240
250	190	225
300	175	210
350	165	195
400	150	180
450	Not recommended for use at these temperatures	165
500		150
600		130
700		110
750		100



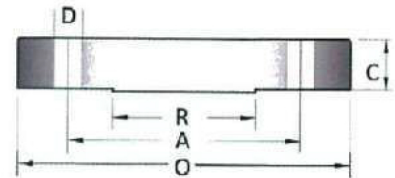
# Flanges



**SLIP ON WELDING**



**WELDING NECK**



**BLIND**

## DIMENSIONS FLANGES OF CLASS 150 (ASME B 16.5)

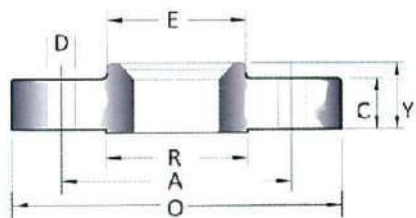
Nominal Pipe Size		Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F
(Inch)	(mm)							S/o. & S/w. Y	W/N Y	L/J Y	S/o. & S/w. B	L/J B		
1/2	15	90	60.3	15.9	4	9.6	30	14	46	16	22.2	22.9	34.9	10
3/4	20	100	69.9	15.9	4	11.2	38	14	51	16	27.7	28.2	42.9	11
1	25	110	79.4	15.9	4	12.7	49	16	54	17	34.5	34.9	50.8	13
1.1/4	32	115	88.9	15.9	4	14.3	59	19	56	21	43.2	43.7	63.5	14
1.1/2	40	125	98.4	15.9	4	15.9	65	21	60	22	49.5	50.0	73.0	16
2	50	150	120.7	19.0	4	17.5	78	24	62	25	61.9	62.5	92.1	17
2.1/2	65	180	139.7	19.0	4	20.7	90	27	68	29	74.6	75.4	104.8	19
3	80	190	152.4	19.0	4	22.3	108	29	68	30	90.7	91.4	127.0	21
4	100	230	190.5	19.0	8	22.3	135	32	75	33	116.1	116.8	157.2	-
5	125	255	215.9	22.2	8	22.3	164	35	87	36	143.8	114.4	185.7	-
6	150	280	241.3	22.2	8	23.9	192	38	87	40	170.7	171.4	215.9	-
8	200	345	298.5	22.2	8	27.0	246	43	100	44	221.5	222.2	269.9	-
10	250	405	362.0	25.4	12	28.6	305	48	100	49	276.2	277.4	323.8	-
12	300	485	431.8	25.4	12	30.2	365	54	113	56	327.0	328.2	381.0	-
14	350	535	476.3	28.6	12	33.4	400	56	125	79	359.2	360.2	412.8	-
16	400	595	539.8	28.6	16	35.0	457	62	125	87	410.5	411.2	469.9	-
18	450	635	577.9	31.7	16	38.1	505	67	138	97	461.8	462.3	533.4	-
20	500	700	635.0	31.7	20	41.3	559	71	143	103	513.1	514.3	584.2	-
24	600	815	749.3	34.9	20	46.1	663	81	151	111	616.0	616.0	692.2	-

## DIMENSIONS OF CLASS 300 FLANGES (ASME B 16.5)

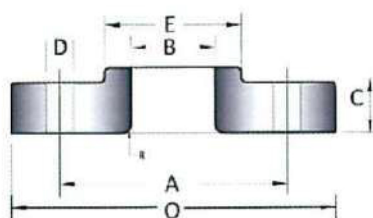
Nominal Pipe Size		Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F
(Inch)	(mm)							S/o. & S/w. Y	W/N Y	L/J Y	S/o. & S/w. B	L/J B		
1/2	15	95	66.7	15.9	4	12.7	38	21	51	22	22.2	22.9	34.9	10
3/4	20	115	82.6	19.0	4	14.3	48	24	56	25	27.7	28.2	42.9	11
1	25	125	88.9	19.0	4	15.9	54	25	60	27	34.5	34.9	50.8	13
1.1/4	32	135	98.4	19.0	4	17.5	64	25	64	27	43.2	43.7	63.5	14
1.1/2	40	155	114.3	22.2	4	19.1	70	29	67	30	49.5	50.0	73.0	16
2	50	165	127.0	19.0	8	20.7	84	32	68	33	61.9	62.5	92.1	17
2.1/2	65	190	149.2	22.2	8	23.9	100	37	75	38	74.6	75.4	104.8	19
3	80	210	168.3	22.2	8	27.0	117	41	78	43	90.7	91.4	127.0	21
4	100	255	220.0	22.2	8	30.2	146	46	84	48	116.1	116.8	157.2	-
5	125	280	235.0	22.2	8	33.4	178	49	97	51	143.8	114.4	185.7	-
6	150	320	269.9	22.2	12	35.0	206	51	97	52	170.7	171.4	215.9	-
8	200	380	330.2	25.4	12	39.7	260	60	110	62	221.5	222.2	269.9	-
10	250	445	387.4	28.6	16	46.1	321	65	116	95	276.2	277.4	323.8	-
12	300	520	450.8	31.7	16	49.3	375	71	129	102	327.0	328.2	381.0	-
14	350	585	514.4	31.7	20	52.4	425	75	141	111	359.2	360.2	412.8	-
16	400	650	571.5	34.9	20	55.6	483	81	144	121	410.5	411.2	469.9	-
18	450	710	628.6	34.9	24	58.8	533	87	157	130	461.8	462.3	533.4	-
20	500	775	685.8	34.9	24	62.0	587	94	160	410	513.1	514.3	584.2	-
24	600	915	812.8	41.3	24	68.3	702	105	167	152	616.0	616.0	692.2	-



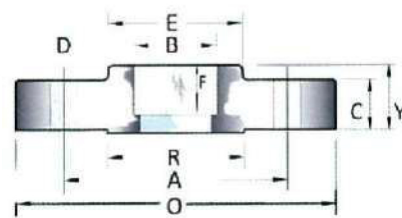
# Flanges



**THREADED**



**LAPPED**



**SOCKET WELDING  
(1/2 to 3 only)**

## DIMENSIONS OF CLASS 600 FLANGES (ASME B 16.5)

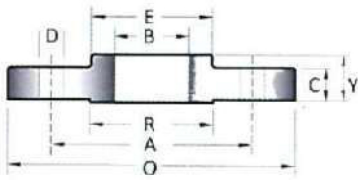
Nominal Pipe Size		Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F
(Inch)	(mm)							S/o. & S/w. Y	W/N Y	L/J Y	S/o. & S/w. B	L/J B		
1/2	15	95	66.7	15.9	4	14.3	38	22	52	22	22.2	22.9	34.9	10
3/4	20	115	82.6	19.0	4	15.9	48	25	57	25	27.7	28.2	42.9	11
1	25	125	88.9	19.0	4	17.5	54	27	62	27	34.5	34.9	50.8	13
1.1/4	32	135	98.4	19.0	4	20.7	64	29	67	29	43.2	43.7	63.5	14
1.1/2	40	155	114.3	22.2	4	22.3	70	32	70	32	49.5	50.0	73.0	16
2	50	165	127.0	19.0	8	25.4	84	37	73	37	61.9	62.5	92.1	17
2.1/2	65	190	149.2	22.2	8	28.6	100	41	79	41	74.6	75.4	104.8	19
3	80	210	168.3	22.2	8	31.8	117	46	83	46	90.7	91.4	127.0	-
4	100	275	215.9	25.4	8	38.1	152	54	102	54	116.1	116.8	157.2	-
5	125	330	266.7	28.6	8	44.5	189	60	114	60	143.8	144.4	185.7	-
6	150	355	292.1	28.6	12	47.7	222	67	117	67	170.7	171.4	215.9	-
8	200	420	349.2	31.7	12	55.6	273	76	133	76	221.5	222.2	269.9	-
10	250	510	431.8	34.9	16	63.5	343	86	152	111	276.2	277.4	323.8	-
12	300	560	489.0	34.9	20	66.7	400	92	156	117	327.0	328.2	381.0	-
14	350	605	527.0	38.1	20	69.9	432	94	165	127	359.2	360.2	412.8	-
16	400	685	603.2	41.3	20	76.2	495	106	178	140	410.5	411.2	469.9	-
18	450	740	645.0	44.4	20	82.6	546	117	184	152	461.8	462.2	533.4	-
20	500	815	723.9	44.4	24	88.9	610	127	190	165	513.1	514.4	584.2	-
24	600	940	838.2	50.8	24	101.6	718	140	203	184	616.0	616.0	692.2	-

## DIMENSIONS OF CLASS 900 FLANGES (ASME B 16.5)

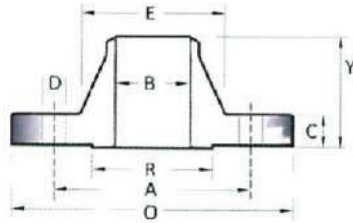
Nominal Pipe Size		Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F
(Inch)	(mm)							S/o. & S/w. Y	W/N Y	L/J Y	S/o. & S/w. B	L/J B		
1/2	15	120	82.6	22.2	4	22.3	38	32	60	32	22.2	22.9	34.9	10
3/4	20	130	88.9	22.2	4	25.4	44	35	70	35	27.7	28.2	42.9	11
1	25	150	101.6	25.4	4	28.6	52	41	73	41	34.5	34.9	50.8	13
1.1/4	32	160	111.1	25.4	4	28.6	64	41	73	41	43.2	43.7	63.5	14
1.1/2	40	180	123.8	28.6	4	31.8	70	44	83	44	49.5	50.0	73.0	16
2	50	215	165.1	25.4	8	38.1	105	57	102	57	61.9	62.5	92.1	17
2.1/2	65	245	190.5	28.6	8	41.3	124	64	105	64	74.6	75.4	104.8	19
3	80	240	190.5	25.4	8	38.1	127	54	102	54	90.7	91.4	127.0	-
4	100	290	235.0	31.7	8	44.5	159	70	114	70	116.1	116.8	157.2	-
5	125	350	279.4	35.0	8	50.8	190	79	127	79	143.8	144.4	185.7	-
6	150	380	317.5	31.7	12	55.6	235	86	140	86	170.7	171.4	215.9	-
8	200	470	393.7	38.1	12	63.5	298	102	162	114	221.5	222.2	269.9	-
10	250	545	469.9	38.1	16	69.5	368	108	184	127	276.2	277.4	323.8	-
12	300	610	533.4	38.1	20	79.4	419	117	200	143	327.0	328.2	381.0	-



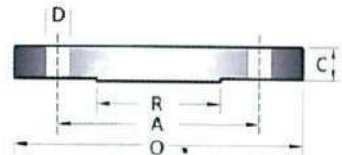
# Flanges



**SLIP ON WELDING**



**WELDING NECK**



**BLIND**

## DIMENSIONS OF CLASS 1500 FLANGES (ASME B 16.5)

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 of Bore		Dia of R/F R	Depth of Socket F
(Inch)	(mm)							S/o. & S/w. Y	W/N Y	L/J Y	S/o. & S/w. B	L/J B		
1/2	15	120	82.6	22.2	4	22.3	38	32	60	32	22.2	22.9	34.9	10
3/4	20	130	88.9	22.2	4	25.4	44	35	70	35	27.2	28.2	42.9	11
1	25	150	101.6	25.4	4	28.6	52	41	73	41	34.5	34.9	50.8	13
1.1/4	32	160	111.1	25.4	4	28.6	64	41	73	41	43.2	43.7	63.5	14
1.1/2	40	180	123.8	28.6	4	31.8	70	44	83	44	49.5	50.0	73.0	16
2	50	215	165.1	25.4	8	38.1	105	57	102	57	61.9	62.5	92.1	17
2.1/2	65	245	190.5	28.6	8	44.3	124	64	105	64	74.6	75.4	104.8	19
3	80	265	203.2	31.7	8	47.7	133	73	117	73	90.7	91.4	127.0	-
4	100	310	241.3	34.9	8	54.0	162	91	124	90	116.1	116.8	157.2	-
5	125	375	292.1	41.3	8	73.1	197	105	156	105	143.8	114.4	185.7	-
6	150	395	317.5	38.1	12	82.6	229	119	171	119	170.7	171.4	215.9	-
8	200	485	393.7	44.4	12	92.1	292	143	213	143	221.5	222.2	269.9	-
10	250	585	482.6	50.8	12	105.0	368	159	254	179	276.3	277.4	323.8	-
12	300	675	571.5	54.0	16	123.9	451	181	283	219	327.1	328.2	381.0	-

## DIMENSIONS OF CLASS 2500 FLANGES (ASME B 16.5)

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 of Bore		Dia of R/F R	Depth of Socket F
(Inch)	(mm)							S/o. & S/w. Y	W/N Y	L/J Y	S/o. & S/w. B	L/J B		
1/2	15	135	88.9	22.2	4	30.2	43	40	73	40	22.3	22.9	34.9	10
3/4	20	140	95.2	22.2	4	31.8	51	43	79	43	28.2	28.2	42.9	11
1	25	160	108.0	25.4	4	35.0	57	48	89	48	34.9	34.9	50.8	13
1.1/4	32	185	130.2	28.6	4	38.1	73	52	95	52	43.7	43.7	63.5	14
1.1/2	40	205	146.0	31.7	4	44.5	79	60	111	60	50.0	50.0	73.0	16
2	50	235	171.4	28.6	8	50.9	95	70	127	70	62.5	62.5	92.1	17
2.1/2	65	265	196.8	31.7	8	57.2	114	79	143	79	75.4	75.4	104.8	19
3	80	305	228.6	34.9	8	66.7	133	92	168	92	91.4	91.4	127.0	-
4	100	355	273.0	41.3	8	76.2	165	108	190	108	116.8	116.8	157.2	-
5	125	420	323.8	47.6	8	92.1	203	130	229	130	144.4	144.4	185.7	-
6	150	485	368.3	54.0	8	108.0	235	152	273	152	171.4	171.4	215.9	-
8	200	550	438.2	54.0	12	127.0	305	178	318	178	222.2	222.2	269.9	-
10	250	675	539.8	66.7	12	165.1	375	229	419	229	277.4	277.4	323.8	-
12	300	760	619.1	73.0	12	184.2	441	254	464	254	328.2	328.2	381.0	-

- 1) Thickness 'C' is Exclusive of Raised Face Thickness of 7mm. for Class 1500 & 2500.
- 2) For weld neck Bore Dia to be specified by purchaser or neck thickness to be specified by purchaser.



## Butt Weld Pipe Fittings



## Flanges



## Pipes, Sheets & Round Bar





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