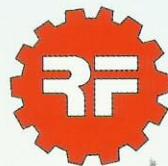
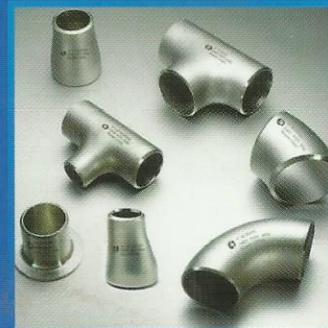


॥ श्री ॥  
॥ श्री पणेश्वाय नमः ॥  
॥ श्री खेतेश्वराय नमः ॥



# RAMDEVRA FORGE



*We are not Compromised in Quality*



## Company Profile

We RAMDEVRA FORGE, Mumbai, take immense pleasure in introducing ourselves as one of the leading supplier in the Engineering Industry having Integrated Steel Complex with modern integration to produce Pipe Fittings/Forged Fittings & Fasteners. The organization has pioneered its operations in 2009 to produce Pipe Fittings & Fasteners, we have experience in this field for past 10 years. We are the importers, stockist & suppliers of Stainless Steel and Carbon Steel sheets, plates, flanges, flats, rods, round bar, pipes, tubes, fasteners, fittings etc.

Each of our department right from procurement, production, inventory, market, sales and services are fully automated for a better supply chain management, so as to offer the best product quality and prompt service to our clients. Along with technological equipment, manpower is also given special attention. All our professionals are highly dedicated and committed to their client's requirements. Our efficient team of workers certainly stand up to provide quality service to you according to your specification.

Strict quality assurance system is being followed in all our departments and Total Quality Management is applied to streamline and all the procedures and practices in operation to achieve high standard of efficiency. Continuous efforts are being made for improvement of materials technology and equipments to give best quality products at the most affordable prices. The materials supplied by us are as per the norms tested by Government recognized laboratories. & with IBR Test Certificate under Third Party Inspection Like EIL, TCE, MECON, PDIL, BAXCOUNSEL, BV, FEDO, UDHE, IBR, DNV, H & G, M.N.DASTUR & CO., DPG, BUREAU VERTIAS, ICB, IRS AND TPL ETC.

In this connection we are humbly requesting you to kindly instruct your departments to sent the valuable day to day enquiries us.

Trust to receive your valuable enquiries and we would assure you that we will serve to with Quality and Professionalism to the best of our ability.

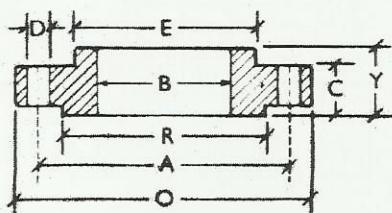
With Regards,

For **RAMDEVRA FORGE**

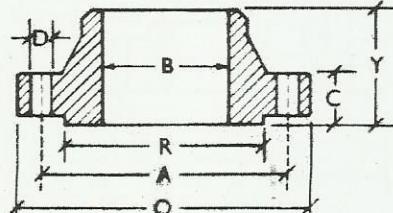




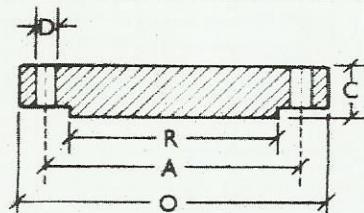
### SLIP-ON FLANGE



### WELDING NECK FLANGE



### BLIND FLANGE



### DIMENSIONS OF CLASS 150 FLANGES AS PER ANSI B 16.5

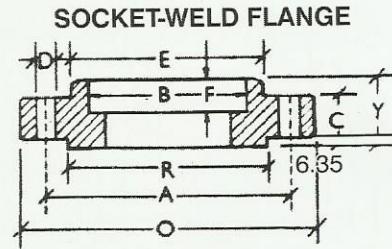
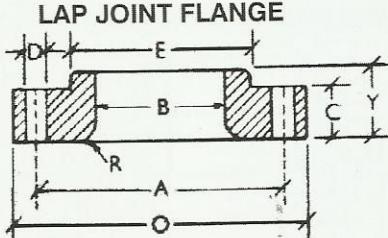
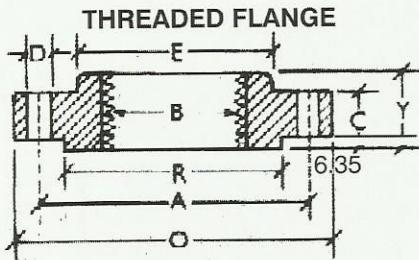
Nominal Pipe Size	Flange Dia	Dia of Bolt Circle			No. of Holes	Till of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F		Depth of Socket
		O	A	D				C	E	Y	Y	Y	B	B	R
15	88.9	60.3	15.9	4	4	11.1	30.2	15.9	47.6	15.9	22.3	22.9	34.9	9.5	
20	98.4	69.8	15.9	4	4	12.7	38.1	15.9	52.4	15.9	27.7	28.2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

### DIMENSIONS OF CLASS 300 FLANGES AS PER ANSI B 16.5

Nominal Pipe Size	Flange Dia	Dia of Bolt Circle			No. of Holes	Till of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F		Depth of Socket
		O	A	D				C	E	Y	Y	Y	B	B	R
15	95.2	66.7	15.9	4	4	14.3	38.1	22.2	52.4	22.2	22.3	22.9	34.9	9.5	
20	117.5	82.5	19.0	4	4	15.9	47.6	25.4	57.1	25.4	27.7	28.2	42.9	11.1	
25	123.8	88.9	19.0	4	4	17.5	54.0	27.0	61.9	27.0	34.5	35.0	50.8	12.7	
32	133.3	98.4	19.0	4	4	19.0	63.5	27.0	65.1	27.0	43.2	43.7	63.5	14.3	
40	155.6	114.3	22.2	4	4	20.6	69.8	30.2	68.3	30.2	49.5	50.0	73.0	15.9	
50	165.1	127.0	19.0	8	8	22.2	84.1	33.3	69.8	33.3	62.0	62.5	92.1	17.5	
65	190.5	149.2	22.2	8	8	25.4	100.0	38.1	76.2	38.1	74.7	75.4	104.8	19.0	
80	209.5	168.3	22.2	8	8	28.6	117.5	42.9	79.4	42.9	90.7	91.4	127.0	20.6	
100	254.0	200.0	22.2	8	8	31.8	146.0	47.6	85.7	47.6	116.1	116.8	157.2	23.8	
125	279.4	234.9	22.2	8	8	34.9	177.8	50.8	98.4	50.8	143.8	144.5	185.7	--	
150	317.5	269.9	22.2	12	12	36.5	206.4	52.4	98.4	52.4	170.7	171.4	215.9	--	
200	381.0	330.2	25.4	12	12	41.3	260.3	61.9	111.1	61.9	211.5	222.2	269.9	--	
250	444.5	387.3	28.6	16	16	47.6	320.7	66.7	117.5	95.2	276.3	277.4	323.8	--	
300	520.7	450.8	31.7	16	16	50.8	374.6	73.0	130.2	101.6	327.1	328.2	381.0	--	
350	584.2	514.3	31.7	20	20	54.0	425.4	76.2	142.9	111.1	359.1	360.2	412.7	--	
400	647.7	571.5	34.9	20	20	57.2	482.6	82.5	146.0	120.6	410.5	411.2	469.9	--	
450	711.2	628.5	34.9	24	24	60.3	533.4	88.9	158.7	130.2	461.8	462.3	533.4	--	
500	774.7	685.8	34.9	24	24	63.5	587.4	95.2	161.9	139.7	513.1	514.3	584.2	--	
600	914.4	812.8	41.3	24	24	69.8	701.7	106.4	168.3	152.4	615.9	615.9	692.1	--	

1) All dimensions are in Millimeters.

2) Flanges except Lap Joint will be furnished with (1.6) Raised Face, which is included in "Thickness (C)" and "Length through Hub (Y)".



## DIMENSIONS OF CLASS 600 FLANGES AS PER ANSI B 16.5

Nominal Pipe Size	Flange Dia	Dia of Bolt Circle	Dia of Bolt Circle	No. of Holes	Till of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket
		O	A				C	E	Y	Y	B	B	R
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
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
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
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
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
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
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
80	209.5	168.3	22.2	8	31.8	117.5	46.0	82.5	45.9	90.7	91.4	127.0	--
100	273.0	215.9	25.4	8	38.1	152.4	54.0	101.6	53.8	116.1	116.8	157.2	--
125	330.2	266.7	28.6	8	44.4	188.9	60.3	114.3	60.4	143.8	141.5	185.7	--
150	355.6	292.1	28.6	12	47.6	222.2	66.7	117.5	66.5	170.7	171.4	215.9	--
200	419.1	349.2	31.7	12	55.6	273.0	76.2	133.3	76.2	221.5	222.2	269.9	--
250	508.0	431.8	34.9	16	63.5	342.9	85.7	152.4	111.2	276.3	277.3	323.8	--
300	558.8	488.9	34.9	20	66.7	400.0	92.1	155.6	117.3	327.1	328.1	381.0	--
350	603.2	527.0	38.1	20	69.9	431.8	93.7	165.1	127.0	359.1	360.1	412.7	--
400	685.8	603.2	41.3	20	76.2	495.3	106.4	177.8	139.7	410.5	411.2	469.9	--
450	742.9	654.0	44.4	20	82.6	546.1	117.5	184.1	152.4	461.8	462.2	533.4	--
500	812.8	723.9	44.4	24	88.9	609.6	127.0	190.5	165.1	513.1	514.3	584.2	--
600	939.8	838.2	50.8	24	101.6	717.5	139.7	203.2	184.1	615.9	615.9	692.1	--

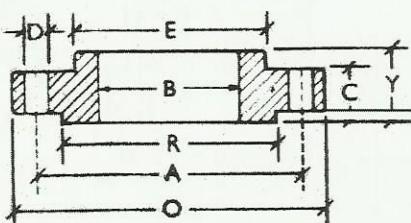
## DIMENSIONS OF CLASS 900 FLANGES AS PER ANSI B 16.5

Nominal Pipe Size	Flange Dia	Dia of Bolt Circle	Dia of Bolt Circle	No. of Holes	Till of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket
		O	A				C	E	Y	Y	B	B	R
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
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
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
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
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
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
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
80	241.3	190.5	25.4	8	38.1	127.0	53.9	101.6	53.8	90.7	91.4	127.0	--
100	292.1	234.9	31.7	8	44.4	158.7	69.8	114.3	69.8	116.0	116.8	157.1	--
125	349.2	279.4	35.0	8	50.8	190.5	79.3	127.0	79.2	143.7	144.5	185.7	--
150	381.0	317.5	31.7	12	55.6	234.9	85.8	139.7	85.8	170.6	171.4	215.9	--
200	469.9	393.7	38.1	12	63.5	298.4	101.6	162.0	144.3	221.4	222.2	269.8	--
250	546.1	469.9	38.1	16	69.8	368.3	107.9	184.1	127.0	276.3	277.3	323.8	--
300	609.6	533.4	38.1	16	79.3	419.1	117.4	200.0	142.7	327.1	328.1	381.0	--

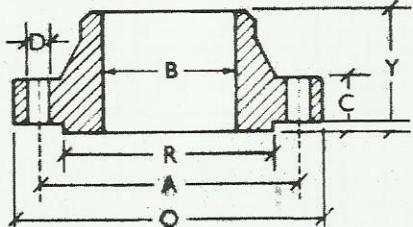
1) All dimensions are in Millimeters.  
2) Flanges except Lap Joint will be furnished with (6.35) Raised Face, which is not included in "Thickness (C)" and "Length through Hub (Y)".



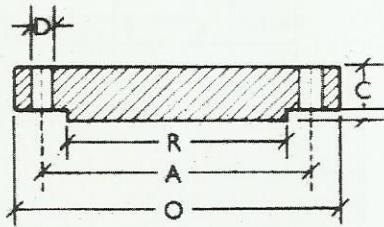
## SLIP-ON FLANGE



## WELDING NECK FLANGE



## BLIND FLANGE



## DIMENSIONS OF CLASS 1500 FLANGES AS PER ANSI B 16.5

Nominal Pipe Size	Flange Dia	Dia of Bolt Circle	Dia of Bolt Circle	No. of Holes	Tilt of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket
		O	A				C	E	Y	Y	Y	B	F
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
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
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
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
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
50	215.9	165.1	25.4	8	38.1	104.8	57.1	104.6	57.1	62.0	62.0	92.1	17.4
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
80	266.7	203.2	31.7	8	47.6	133.3	73.0	117.5	73.0	90.7	91.4	127.0	--
100	311.1	241.3	34.9	8	54.0	161.9	90.5	123.0	90.4	116.1	116.8	157.2	--
125	374.6	292.1	41.3	8	73.0	196.8	104.8	155.6	104.8	143.8	144.5	185.7	--
150	393.7	317.5	38.1	12	82.6	228.6	119.1	171.4	119.1	170.7	171.4	215.9	--
200	482.6	393.7	44.4	12	92.1	292.1	142.9	212.7	142.8	221.5	222.2	269.9	--
250	584.2	482.6	50.8	12	107.9	368.3	158.7	254.0	177.8	276.3	277.3	323.8	--
300	673.1	571.5	54.0	16	123.8	450.8	181.0	282.5	218.9	327.1	328.1	381.0	--

## DIMENSIONS OF CLASS 2500 FLANGES AS PER ANSI B 16.5

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

1) All dimensions are in Millimeters.

2) Flanges except Lap Joint will be furnished with (6.35) Raised Face, which is not included in "Thickness (C)" and "Length through Hub (Y)".



## BRITISH STANDARD PIPE FLANGES

### DIMENSION OF PIPE FLANGES AS PER TABLE BS-10

**Table D :** For Working Steam Pressure  
upto 50 lbs per sq. inch.

Nominal Pipe Size	O.D. of Pipe	Dia of Flange	Dia of Bolt Circle	No. of Bolt	Dia of Bolt	Thickness
1/2"	27/32"	3 3/4"	2.5/8"	4	1/2"	3/16"
3/4"	1 1/16"	4"	2.7/8"	4	1/2"	3/16"
1"	1.11/32"	4 1/2"	3 1/4"	4	1/2"	3/16"
1 1/4"	1.11/16"	4 3/4"	3.7/16"	4	1/2"	1/4"
1 1/2"	1.29/32"	5 1/4"	3.7/8"	4	1/2"	1/4"
2"	2.3/8"	6"	4 1/2"	4	5/8"	5/16"
2 1/2"	3"	6 1/2"	5"	4	5/8"	5/16"
3"	3 1/2"	7 1/4"	5 3/4"	4	5/8"	3/8"
3 1/2"	4"	8"	6 1/2"	4	5/8"	3/8"
4"	4 1/2"	8 1/2"	7"	4	5/8"	3/8"
5"	5 1/2"	10"	8 1/4"	8	5/8"	1/2"
6"	6 1/2"	11"	9 1/4"	8	5/8"	1/2"
7"	7 1/2"	12"	10 1/4"	8	5/8"	1/2"
8"	8.5/8"	13 1/4"	11 1/2"	8	5/8"	1/2"
9"	9.5/8"	14 1/2"	12 3/4"	8	5/8"	5/8"
10"	10.3/4"	16"	14"	8	3/4"	5/8"
12"	12.3/4"	18"	16"	12	3/4"	5/8"
14"	14"	20 3/4"	18 1/2"	12	7/8"	3/4"
16"	16"	22 3/4"	20 1/2"	12	7/8"	3/4"
18"	18"	25 1/4"	23"	12	7/8"	7/8"
20"	20"	27 3/4"	25 1/4"	16	7/8"	1"
24"	24"	32 1/2"	29 3/4"	16	1"	1.1/8"

**Table E :** For Working Steam Pressure 50 lbs  
and upto 100 lbs per sq. inch

Nominal Pipe Size	Dia of Flange	Dia of Bolt Circle	No. of Bolt	Dia of Bolt	Thickness
1/2"	3 3/4"	2.5/8"	4	1/2"	1/4"
3/4"	4"	2.7/8"	4	1/2"	1/4"
1"	4 1/2"	3 1/4"	4	1/2"	9/32"
1 1/4"	4 3/4"	3.7/16"	4	1/2"	5/16"
1 1/2"	5 1/4"	3.7/8"	4	1/2"	11/32"
2"	6"	4 1/2"	4	5/8"	3/8"
2 1/2"	6 1/2"	5"	4	5/8"	13/32"
3"	7 1/4"	5 3/4"	4	5/8"	7/16"
3 1/2"	8"	6 1/2"	8	5/8"	15/32"
4"	8 1/2"	7"	8	5/8"	1/2"
5"	10"	8 1/4"	8	5/8"	9/16"
6"	11"	9 1/4"	8	3/4"	11/16"
7"	12"	10 1/4"	8	3/4"	3/4"
8"	13 1/4"	11 1/2"	8	3/4"	3/4"
9"	14 1/2"	12 3/4"	12	3/4"	13/16"
10"	16"	14"	12	3/4"	7/8"
12"	18"	16"	12	7/8"	1"
14"	20 3/4"	18 1/2"	12	7/8"	1"
16"	22 3/4"	20 1/2"	12	7/8"	1"
18"	25 1/4"	23"	16	7/8"	1.1/8"
20"	27 3/4"	25 1/4"	16	7/8"	1.1/4"
24"	32 1/4"	29 3/4"	16	1.1/8"	1.1/2"

**Table F :** For Working Steam Pressure  
above 100 lbs and upto 150 lbs per sq. inch

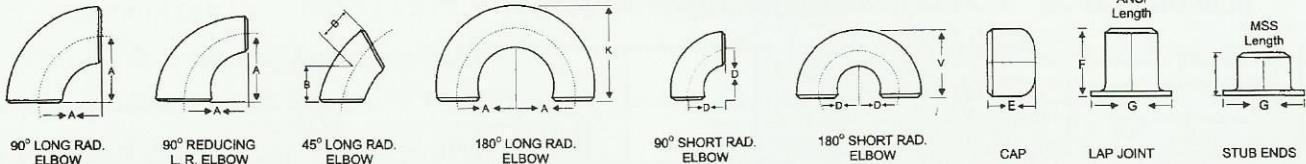
Nominal Pipe Size	Dia of Flange	Dia of Bolt Circle	No. of Bolt	Dia of Bolt	Thickness
1/2"	3 3/4"	2.5/8"	4	1/2"	3/8"
3/4"	4"	2.7/8"	4	1/2"	3/8
1"	4 3/4"	3.7/16"	4	5/8"	3/8"
1 1/4"	5 1/4"	3.7/8"	4	5/8"	1/2"
1 1/2"	5 1/2"	4 1/8"	4	5/8"	1/2"
2"	6 1/2"	5"	4	5/8"	5/8"
2 1/2"	7 1/4"	5 3/4"	8	5/8"	5/8"
3"	8"	6 1/2"	8	5/8"	5/8"
3 1/2"	8 1/2"	7"	8	5/8"	3/4"
4"	9"	7 1/2"	8	5/8"	3/4"
5"	11"	9 1/4"	8	3/4"	7/8"
6"	12"	10 1/4"	12	3/4"	7/8"
7"	13 1/4"	11 1/2"	12	3/4"	7/8"
8"	14 1/2"	12 3/4"	12	3/4"	1"
9"	16"	14"	12	7/8"	1"
10"	17"	15"	12	7/8"	1"
12"	19 1/4"	17 1/4"	16	7/8"	1.1/8"
14"	21 3/4"	19 1/2"	16	1"	1.5/8"
16"	24"	21 3/4"	20	1"	1.3/4"
18"	26 1/2"	24"	20	1.1/8"	1.7/8"
20"	29"	26 1/2"	24	1.1/8"	2"
24"	33 1/2"	30 3/4"	24	1.1/4"	2.1/4"

**Table H :** For Working Steam Pressure  
above 150 lbs and upto 250 lbs per sq. inch

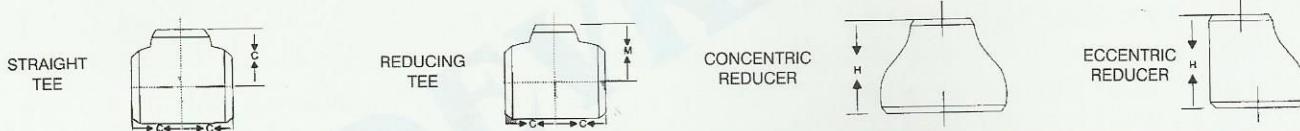
Nominal Pipe Size	Dia of Flange	Dia of Bolt Circle	No. of Bolt	Dia of Bolt	Thickness
1/2"	3 3/4"	3 1/4"	4	5/8"	1/2"
3/4"	4 1/2"	3 1/4"	4	5/8"	1/2"
1"	4 3/4"	3.7/16"	4	5/8"	9/16"
1 1/4"	5 1/4"	3.7/8"	4	5/8"	11/16"
1 1/2"	5 1/2"	4 1/8"	4	5/8"	11/16"
2"	6 1/2"	5"	4	5/8"	3/4"
2 1/2"	7 1/4"	5 3/4"	8	5/8"	3/4"
3"	8"	6 1/2"	8	5/8"	7/8"
3 1/2"	8 1/2"	7"	8	5/8"	7/8"
4"	9"	7 1/2"	8	5/8"	1"
5"	11"	9 1/4"	8	3/4"	1.1/8"
6"	12"	10 1/4"	12	3/4"	1.1/8"
7"	13 1/4"	11 1/2"	12	3/4"	1.1/4"
8"	14 1/2"	12 3/4"	12	3/4"	1.1/4"
9"	16"	14"	12	7/8"	1.3/8"
10"	17"	15"	12	7/8"	1.3/8"
12"	19 1/4"	17 1/4"	16	7/8"	1.1/2"
14"	21 3/4"	19 1/2"	16	1"	1.5/8"
16"	24"	21 3/4"	20	1"	1.3/4"
18"	26 1/2"	24"	20	1.1/8"	1.7/8"
20"	29"	26 1/2"	24	1.1/8"	2"
24"	33 1/2"	30 3/4"	24	1.1/4"	2.1/4"



## BUTT-WELDING FITTINGS



Nom. Pipe Size (Inches)	Pipe O. D.	ELBOW						G O. D. of Lap	Stub ends (See note below)					Nom. Pipe Size (Inches)		
		A	B	D	K	V	E		Type A			Type B. C. A				
									F (length) ANSI std.	I (length) MSS Std.	Corner Radius	I (length) MSS Std.	Corner Radius			
1/2	0.84	1.50	0.62	-	1.88	-	1.00	1.38	3.00	2.00	0.12	2.00	1/32	1/2		
3/4	1.05	1.12	0.44	-	1.69	-	1.00	1.69	3.00	2.00	0.12	2.00	1/32	3/4		
1	1.32	1.50	0.88	1.00	2.19	1.62	1.50	2.00	4.00	2.00	0.12	2.00	1/32	1		
1 1/4	1.66	1.88	1.00	1.25	2.75	2.06	1.50	2.50	4.00	2.00	0.19	2.00	1/32	1 1/4		
1 1/2	1.90	2.25	1.12	1.50	3.25	2.44	1.50	2.88	4.00	2.00	0.25	2.00	1/32	1 1/2		
2	2.38	3.00	1.38	2.00	4.19	3.19	1.50	3.62	6.00	2.50	0.31	2.50	1/32	2		
2 1/2	2.88	3.75	1.75	2.50	5.19	3.94	1.50	4.12	6.00	2.50	0.31	2.50	1/32	2 1/2		
3	3.50	4.50	2.00	3.00	6.25	4.75	2.00	5.00	6.00	2.50	0.38	2.50	1/23	3		
3 1/2	4.00	5.25	2.25	3.50	7.25	5.50	2.50	6.00	3.00	0.38	3.00	1/23	3 1/2			
4	4.50	6.00	2.50	4.00	8.25	6.25	2.50	6.19	6.00	3.00	0.44	3.00	1/32	4		
5	5.56	7.50	3.12	5.00	10.31	7.75	3.00	7.31	8.00	3.00	0.44	3.00	1/16	5		
6	6.62	9.00	3.75	6.00	12.31	9.31	3.50	8.50	8.00	3.50	0.50	3.50	1/16	6		
8	8.62	12.00	5.00	8.00	16.31	12.31	4.00	10.62	8.00	4.00	0.50	4.00	1/16	8		
10	10.75	15.00	6.25	10.00	20.38	15.38	5.00	12.75	10.00	5.00	0.50	5.00	1/16	10		
12	12.75	18.00	7.50	12.00	24.38	18.38	6.00	15.00	10.00	6.00	0.50	6.00	1/16	12		
14	14.00	21.00	8.75	14.00	28.00	21.00	6.50	16.25	12.00	-	0.50	-	-	14		
16	16.00	24.00	10.00	16.00	32.00	24.00	7.00	18.50	12.00	-	0.50	-	-	16		
18	18.00	27.00	11.25	18.00	36.00	27.00	8.00	21.00	12.00	-	0.50	-	-	18		
20	20.00	30.00	12.50	20.00	40.00	30.00	9.00	23.00	12.00	-	0.50	-	-	20		
22	22.00	33.00	13.50	22.00	44.00	33.00	10.50	25.25	12.00	-	0.50	-	-	22		
24	24.00	36.00	15.00	24.00	48.00	36.00	10.50	27.50	-	-	0.50	-	-	24		



Nom. Pipe Size	Outlet	C	M	H	Nom. Pipe Size	Outlet	C	M	H	Nom. Pipe Size	Outlet	C	M	H	Nom. Pipe Size	Outlet	C	M	H
0.75	1.12	-	-	-	3.50	3.75	-	-	-	10.00	8.50	-	-	-	20.00	15.00	-	-	-
3/4	0.50	1.12	1.12	1.50	3.00	3.75	3.62	4.00	-	8.00	8.50	8.00	7.00	-	18.00	15.00	14.50	20.00	
1	1.00	1.50	-	-	2.50	3.75	3.50	4.00	-	6.00	8.50	7.62	7.00	-	16.00	15.00	14.00	20.00	
0.75	1.50	1.50	2.00	-	2.00	3.75	3.25	4.00	-	5.00	8.50	7.50	7.00	-	14.00	15.00	14.00	20.00	
0.50	1.50	1.50	2.00	-	1.50	3.75	3.12	4.00	-	4.00	8.50	7.25	7.00	-	12.00	15.00	13.62	20.00	
1 1/4	1.25	1.88	-	-	4.00	4.12	-	-	-	12.00	10.00	-	-	-	10.00	15.00	13.12	20.00	
1.00	1.88	1.88	2.00	-	3.50	4.12	4.00	4.00	-	10.00	10.00	9.50	8.00	-	8.00	15.00	12.75	20.00	
0.75	1.88	1.88	2.00	-	3.00	4.12	3.88	4.00	-	12.00	10.00	9.00	8.00	-	24.00	17.00	-	-	
0.50	1.88	1.88	2.00	-	2.50	4.12	3.75	4.00	-	8.00	10.00	8.62	8.00	-	20.00	17.00	17.00	20.00	
1 1/2	1.50	2.25	2.25	2.50	2.00	41.2	3.50	4.00	-	14.00	11.00	-	-	-	18.00	17.00	16.50	20.00	
1.00	2.25	2.25	2.50	-	1.50	41.2	3.38	4.00	-	12.00	11.00	10.62	13.00	-	16.00	17.00	16.00	20.00	
0.75	2.25	2.25	2.50	-	5.00	4.88	-	-	-	10.00	11.00	10.62	13.00	-	14.00	17.00	15.62	20.00	
0.50	2.25	2.25	2.50	-	4.00	4.88	4.62	5.00	-	8.00	11.00	9.75	13.00	-	12.00	17.00	15.62	20.00	
2	2.00	2.50	-	-	3.00	4.88	4.38	5.00	-	6.00	11.00	9.75	13.00	-	30.00	22.00	-	-	
1.50	2.50	2.38	3.00	-	2.50	4.88	4.25	5.00	-	16.00	12.00	-	-	-	24.00	22.00	21.00	24.00	
1.00	2.50	2.25	3.00	-	2.00	4.88	4.12	5.00	-	14.00	12.00	12.00	14.00	-	20.00	22.00	19.50	24.00	
0.75	2.50	1.75	3.00	-	6.00	5.62	-	-	-	12.00	12.00	11.62	14.00	-	18.00	26.50	22.50	24.00	
2 1/2	2.50	3	-	-	4.00	5.62	5.12	5.50	-	10.00	12.00	11.12	14.00	-	30.00	26.50	25.00	24.00	
2.00	3	2.75	3.50	-	3.50	5.62	5.00	5.50	-	8.00	12.00	10.75	14.00	-	24.00	26.50	24.00	24.00	
1.50	3	2.62	3.50	-	3.00	5.62	4.88	5.50	-	6.00	12.00	10.12	14.00	-	20.00	26.50	23.00	24.00	
1.25	3	2.50	3.50	-	2.50	5.62	4.75	5.50	-	18.00	13.50	-	-	-	16.00	26.50	22.50	24.00	
3	3.00	3.38	-	-	8.00	7.00	-	-	-	16.00	13.50	13.00	15.00	-	42.00	30.00	-	-	
2.50	3.38	3.25	3.50	-	6.00	7.00	6.62	6.00	-	14.00	13.50	13.00	15.00	-	36.00	30.00	28.00	24.00	
2.00	3.38	3.00	3.50	-	5.00	7.00	6.38	6.00	-	12.00	13.50	12.62	15.00	-	30.00	30.00	28.00	24.00	
1.50	3.38	2.88	3.50	-	4.00	7.00	6.12	6.00	-	10.00	13.50	12.12	15.00	-	24.00	30.00	26.00	24.00	
1.25	3.38	2.75	3.50	-	3.50	7.00	6.00	6.00	-	8.00	13.50	11.75	15.00	-	20.00	30.00	26.00	24.00	

All the dimensions are in inches.

## FASTENERS

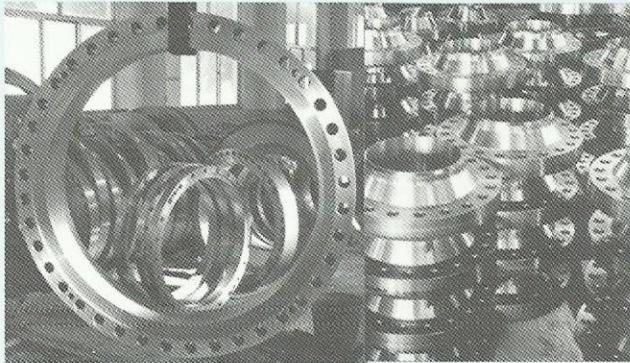


The following table represents size range, product standards and material grades of fasteners like stainless steel, carbon steel & alloy steel etc. Our range includes:

### **MATERIAL TYPE :-**

Stainless Steel	: AISI 302, 304, 304L, 316, 316L, 310, 317, 317L, 321, 347, 410, 420, 904L etc. 4.6, 5.6, 6.6, 8.8, 10.9 & 12.9 / 'R', 'S', 'T' Conditions.
Carbon Steel	: Bare Condition, Galvanized, Phosphated, Cadmium Plated etc.
Alloy Steel	: Hot Deep Galvanized, Bloodied, Nickel Chrome Plated, etc.
Others	: Copper, Brass, Aluminum, Titanium, Nichrome, Al.Bronze, Phosphorous Bronze, etc.
Types	: Bolts, Nuts, Washers, Anchor Fasteners, Stud Bolts, Eye Bolt. Stud. Threaded Rod. Cotter Pin. Socket Screw. Fine Fasteners & Spares, Foundation Fasteners, etc.





## APPLICATIONS :

- ◆ CERAMIC INDUSTRIES
- ◆ IRON & STEEL PLANTS
- ◆ PETRO CHEMICAL PLANTS
- ◆ ACID & CHEMICAL INDUSTRIES
- ◆ MINES
- ◆ AUTOMOBILE INDUSTRIES
- ◆ HEAVY MACHINERIES
- ◆ DISTILLERIES
- ◆ CEMENT PLANTS
- ◆ ELECTRIC & ELECTRONIC INDUSTRIES
- ◆ SPACE CENTRES
- ◆ FERTILIZER INDUSTRIES
- ◆ FOOD INDUSTRIES
- ◆ OIL & GAS INDUSTRIES
- ◆ PAPER & PULP INDUSTRIES
- ◆ PHARMACEUTICALS
- ◆ POWER SECTORS
- ◆ REFINERIES
- ◆ SUGAR MILLS
- ◆ TEXTILE INDUSTRIES

## FORMULA OF CALCULATING WEIGHT

- 1) Weight of S.S. Pipes  

$$\text{OD (MM)} - \text{W.T. (MM)} \times \text{W.T. (MM)} \times 0.00756 = \text{kg (per ft)}$$

$$\text{OD (MM)} - \text{W.T. (MM)} \times \text{W.T. (MM)} \times 0.0248 = \text{kg (per mtr)}$$
- 2) Weight of S.S. Round  

$$\text{Dia (MM)} \times \text{Dia (MM)} \times 0.0019 \text{ kg (per ft)}$$
- 3) Weight of S.S. Hexagonal Rod  

$$\text{Dia (MM)} \times \text{Dia (MM)} \times 0.002072 = \text{kg (per ft)}$$
- 4) Weight of S.S. Square Rod  

$$\text{Diameter} \times \text{Diameter} \times .0025 \text{ Weight per ft.}$$
- 5) Weight of Stainless Steel Sheets  

$$\text{Length} \times \text{Width} \times \text{Thickness} \times 0.000008 = \text{kg (per Sheet)}$$

$$(\text{mm}) \quad (\text{mm}) \quad (\text{mm})$$
- 6) Weight of S.S. Circle  

$$\text{Diameter} \times \text{Diameter} \times \text{Thickness} \times 0.0000063 = \text{Weight per pc.}$$

$$(\text{mm}) \quad (\text{mm}) \quad (\text{mm})$$
- 7) Weight of S.S. Flat in mm per ft.  

$$\text{Length} \times \text{Width} \times \text{Thick} \times 0.000008 = \text{per Pcs.}$$
- 8) Weight of Copper Pipe  

$$\text{OD (MM)} - \text{W.T. (MM)} \times \text{W.T.} \times 0.0078 \text{ kg (per ft.)}$$
- 9) Making of Pipe from Sheet or Plate  

$$\text{OD} - \text{Thick} \times 3.14 \times \text{Width of Cutting Sheet of Plate}$$
- 10) Pressure Conversion :  

$$\text{kg / mm}^2 \times 1422.3 = \text{Psi} = \text{kg / cm}^2 \times 14.223$$
- 11) 1 Feet = 0.3048 meter  
 1 Mtr. = 3.2808 ft.  
 1 Inch. = 25.4 mm  
 1 Pound = 0.454 (45359243) kgs.