

R *Rameshwar* METAL INDIA

"WE PROVIDE THE BEST SOLUTION IN STEEL"

Manufacturers, Stockists & Suppliers of : **Stainless Steel Pipes & Tubes**
Stainless Steel, 304, 316, 310, 321, 410, 420, Quality Sheets, Circles, Plates, Rods,
Squares, Hex, Wire, Nickel, S.S. Pipe, Flanges, Strips, Copper, Brass, Tubes,
Aluminium, C.S., M.S. & Alloys in Any Grade & Quality

Technical Handbook of Ferrous & Non-Ferrous Metals



Office : 37/10, Ardeshir Dady Street, Chandralok Building, Near Alankar Cinema, MUMBAI - 400 004.

Tel.: 022-6610 5088 / 6636 3350 • Mob.: 86524 23355 / 98692 89481

E-mail : info@rameshwarmetal.com / rameshwarmetalindia@gmail.com • **Web.:** www.rameshwarmetalindia.com

Factory : 25DK, 4th Phase, Near Petrol Pump, Chhatral - 382 729, Gujarat.

Product Range

Pipes:

Types: Round, Square, Rectangular.
Size: 6mmOD' & Above. (Welded & Seamless)
Wall Thickness: 0.5mm & Above.

Coils:

Surface: 2B, 2D, BA, HL, No.4
Thickness: 0.31 mm ~ 10 mm
Width: 1000 mm / 1220 mm / 1525 mm /
2000 mm

Butt Weld Fittings:

Types: Elbow, Tee, Reducer, Return Bends,
Stub-Ends, Cap, Collar, Cross, Insert etc.
Size: 1/4" NB TO 32" NB.
(Welded & Seamless)
Wall Thickness: Sch. 5S To Sch. XXS.

Flanges:

Types: Weldneck, Slipon, Blind, Socket Weld,
Lap Joint, Spectacles, Ring Joint, Orifice, Long
Weldneck, Deck Flange, etc.
Size: 1/2" NB TO 24" NB.
Class: 150#, 300#, 400#, 600#, 900#,
1500# & 2500#.

Screwed & Forged Fittings:

Types: Elbow, Tee, Union, Cross, Coup
Bushing, Plug, Swage Nipples, Welding Boss,
Street Elbow, Hexagon Nut, Bend, Adapter,
Insert, Weldolet, Elbowlet, Sockolet,
Thredolet, Nipolet, Letrolet, etc.
Size: 1/4" NB TO 4" NB. (Socketweld &
Threaded)
Class: 3000#, 6000#, 9000#.

Fasteners:

Types: Bolts, Nuts, Washers, Anchor
Fasteners, Stud Bolts, Eye Bolt, Stud,
Threaded Rod, Cotter Pin, Socket Screw,
Fine Fasteners & Spares, Foundation
Fasteners, etc.
Other : Alloy Steel : 4.6, 5.6, 6.6, 8.8, 10.9
& 12.9 / 'R', 'S', 'T' Conditions.

Sheets & Plates:

Stainless Steel Sheets :

Thickness : 0.25mm & above
Width : 6mm ~ 2000mm
Length : 1000mm ~ 1000mm
Rods : 6mm & above

Stainless Steel Plates :

Thickness : 3mm & above
Width : 1000mm to 3200mm
Length : 2438mm / 3048mm /
6096mm to 13500mm

**All our products are
as per the
National & International
standards**

Vikram Choudhary
8652423355

D. V. Choudhary
9869289481

INTRODUCTION

Dear Sir / Madam,

Sub: Registration of our Firm for Ferrous & Non-Ferrous Metals & industrial Raw Materials:

We take immense pleasure in introducing ourselves as one of the leading Importer, Stockiest & Suppliers:

- STAINLESS STEEL** : Seamless / ERW Pipes, Pipe-Fittings, Sheets, Perforated, Sheets, Plates, Circles & Ring, Rods, Wire, Wire-Mesh, Flats, Angles, Channels, SMP, Rods, Electro etc. of Grades TP-304, 304L, 316, 316L, 321, 309, 309S, 310, 409, 410, 410S, 420, 430, 904, 904L etc.
- S.S. & M.S. Fittings** : Seamless / ERW Stainless Steel Grade 202, 304, 304L, 309, 310, 310S, 316 B/W & Socket Weld 316L, 321, 409, 410, 430, 904, 904L Elbow, Tee, Reducer, Long, Short, Stubend, Flanges, Nipples, Unions, Caps, Hex, Nipple, House Nipple, Coupling, Nut Bolts, Pipe Clamps, Dairy Fittings, Tricover, Clamp & Vales, and Industrial raw material etc.
- ALLOY STEEL** : Seamless / ERW Pipes, Sheets, Plates, etc. of Grades EN-8, EN-9, EN24, EN-36, EN-353, HCHCR – WPS, D2-D3, OHNS, High Speed, Steed, Steel Hot Die Steel, 16MNCR-5, 20MNCR-5, SAE-8620 of ASTM A-335 GR, P1, P9, P11, P12, O22, etc. ASTM A-387 GR., 515/516GR., 60, 70 & IS 2062 etc.
- NON-FERROUS METAL** : Copper, Brass, Aluminum, Phosper-Bronze, Monel, Nickel, Inconnel, Lead, Zinc, Hastalloy B & C, Titanium, Gupro-Nickel, Gun-Metal, etc, in the form of Rounds, Plates, Sheets, Wires, Circles, flats & Tubes.
- MANUFATURING** : Manufacturing of all types of Pipe Fittings and Nut Bolt, Round Machinery, All Types of Industrial Estate Raw materials etc.

Our Material undergo strict Quality Inspection approved by any THIRD PARTY INSPECTINOAGENCIES & GOVERNMENT LABORATORIES,

We are registered & have supplied the above items to various Govt. /Public/Pvt. Sector undertakings as per Required Specifications. So we humbly request you to favor us the honor of being as your list of suppliers & By mailing all your Valuable enquiries as and when demand arises.

If you have any REGISTRATION FORM, please send us to forward the same duly filled in all respects. Assuring you our best attentions & hoping your earliest reply.

Dear Sir:

We are a reputed Supplier and Manufacturer of all kinds of Stainless Steel Pipe and Pipe Fittings, Tubes, Sheet, Plates, Rod Bar Material. Samples are given above for your reference. Kindly to send your enquiry details as early as possible,

Thanks & Regards,

For **RAMESHWAR METAL INDIA**

Mr. Vikram Choudhary
Mob: 08652423355

Mr. D. V. Choudhary
Mob: 09869289481

STAINLESS STEEL PIPE FITTINGS



90° Elbow



45° Elbow



U Bend



Cap



Long Stubend



Tee



Con. Reducer



Ecc. Reducer



Short Stubend



Barrel Nipple



Long Bend



BSP Bend



3way Ball Valve



3 Pcs Ball TC Valve



MANIFOLD VALVE



NEEDLE VALVE
Up to 5000 PSI



BALL VALVE FLANGED



Weldolet Olet



Weldolet



Butterfly Valve

S.S. INSTRUMENTAL FERRULE FITTINGS



Union Elbow



Male Elbow



Female Elbow



Union Tee



Male Run Tee



Male Branch Tee



Female Run Tee



Female Branch Tee



Union Cross



45 Deg. Elbow



Tube end Closure



Bulk Head Elbow



Positionable Male Elbow



Butt Weld Pipe Elbow



Union



Reducing Union



Bulkhead Union



Male Connector



Female Connector

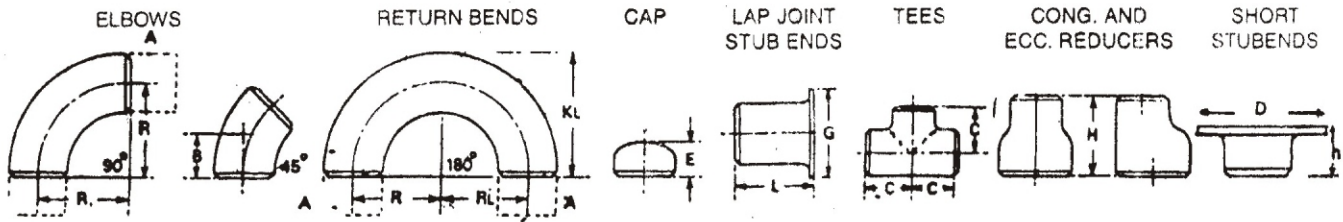


Male Adaptor



Female Adaptor

DIMENSION IN M.M. OF BUTT WELDING FITTINGS TO ANSI B 16.9



NOM BORE	PIPE OD	WALL THICKNESS				RADIUS				R	B	C	E	G	L		H	D	H
		SS	10S	40S	80S	1D	1.5D	2D	3D						SHORT	LONG			
1/2	21.34	1.66	2.11	2.77	3.73	12.7	19.05	25.4	38.1	15.9	25.4	25.4	34.9	50.8	76.2	38.1	45	8	
3/4	26.67	1.65	2.11	2.87	3.91	19.05	28.57	38.10	57.15	11.1	28.6	25.4	42.8	50.8	76.2	38.1	54	8	
1	33.40	1.65	2.77	3.38	4.55	25.4	38.1	50.8	76.2	22.2	38.1	38.1	50.8	50.8	101.6	50.8	64	10	
1 1/4	42.16	1.65	2.77	3.56	4.85	31.75	47.6	63.5	95.25	25.0	47.6	38.1	63.5	50.8	101.6	50.8	74	12	
1 1/2	48.26	1.65	2.77	3.68	5.08	38.1	57.15	76.2	114.3	28.6	57.2	38.1	73.0	50.8	101.6	63.5	84	12	
2	60.32	1.65	2.77	3.91	5.54	50.8	76.2	101.6	152.4	34.0	63.5	38.1	92.0	63.5	152.4	76.2	102	14	
2 1/2	73.02	2.11	3.05	5.16	7.01	63.5	95.25	127.0	190.5	44.0	76.2	38.1	104.8	63.5	152.4	88.9	122	16	
3	88.90	2.11	3.05	5.49	7.62	76.2	114.30	152.4	228.6	50.8	85.7	50.8	127.0	63.5	152.4	88.9	138	18	
3 1/2	101.60	2.11	3.05	5.74	8.08	88.9	113.35	177.8	266.7	57.2	95.3	63.5	139.7	76.2	152.4	101.6	148	18	
4	114.30	2.11	3.05	6.02	8.56	101.6	152.4	203.2	304.8	63.5	104.8	63.5	157.2	76.2	152.4	101.6	158	20	
5	141.30	2.77	3.40	6.55	9.52	127.0	190.5	254.0	381.0	79.4	123.8	76.2	185.7	76.2	203.2	127.0	188	25	
6	168.28	2.77	3.40	7.11	10.97	152.4	228.6	304.8	457.2	95.3	142.8	88.9	215.9	88.9	203.2	139.7	212	25	
8	219.08	2.77	3.76	8.18	12.7	203.2	304.8	406.4	609.6	127.0	177.8	101.6	270.0	101.6	203.2	152.4	270	30	
10	273.05	3.40	4.19	9.27	12.7	254.0	381.0	508.0	762.0	158.7	215.9	127.0	324.0	127.0	254.0	177.8	325	30	
12	323.85	3.96	4.57	9.52	17.45	304.8	457.2	609.6	914.4	190.5	254.0	152.4	381.0	152.4	254.0	203.2	380	35	
14	355.60	3.96	4.78	11.13	15.0	355.6	533.4	711.2	1066.8	222.2	280.0	165.1	412.8	152.4	305.0	330.2	415	40	
16	406.40	4.19	4.78	12.7	21.45	406.4	609.6	812.8	1219.2	254.0	304.8	177.8	470.0	152.4	305.0	355.6	470	40	
18	457.20	4.19	4.78	14.27	23.80	457.2	685.8	914.4	1371.6	385.7	343.0	203.2	533.4	152.4	305.0	381.0	535	40	
20	508.00	4.78	5.54	15.09	26.19	508.00	762.0	101.6	1524.0	317.6	381.0	288.6	584.2	152.4	305.0	508.0	585	40	
22	588.8	4.78	6.35	15.88	28.57	558.8	838.2	1117.6	1676.4	343	419	254	641.4	152.4	305	508	642	40	
24	609.6	5.54	6.35	17.48	30.94	609.6	914.4	1219.2	1828.8	381	432	266.7	692.2	152.4	305	508	693	40	

STANDARDS : All dimensions are in mm and confirm to ANSI B 16.9 and M.S.S. P-43 where applicable Dimensional tolerances are in accordance with ANSI B 16.9 and M.S.S. SP-43 where applicable.

RADIUS : Radius of short Elbows is 1 times nominal pipe diameter, Radius of Long Radius Elbows is 1 1/2 times nominal pipe diameter.

MATERIAL OF CONSTRUCTION : S. S. 304/304L/316/316L/317/321 Nickel Alloys.

ALL TYPES OF FLANGES



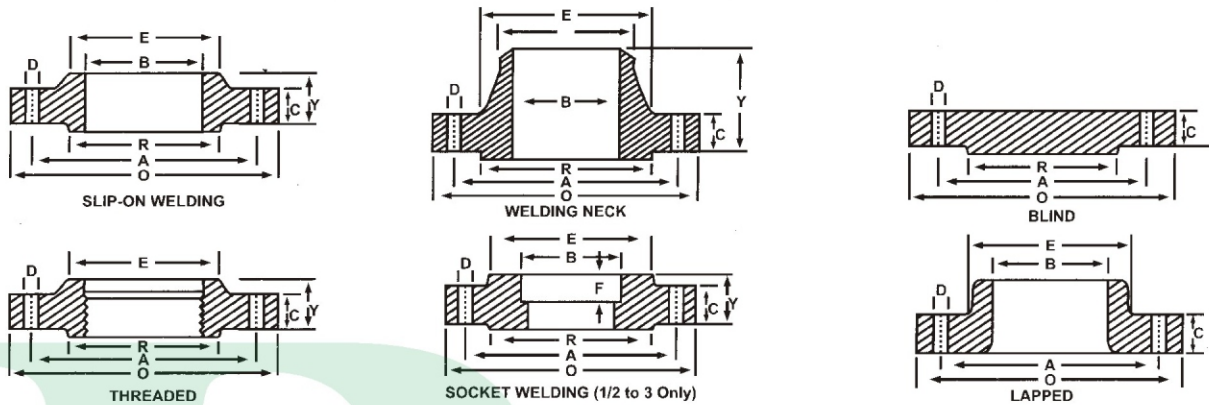
DIMENSION OF FLANGES TO ASME / ANSI B 16.5 SOCKET WELDING

DIMENSIONS OF CLASS 150 FLANGES (ASME / ANSI B16.5)													(In mm)	
Nominal Size	Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of HOLES	Thk of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket	
							S/O&S/W	W/N	L/J	S/O&S/W	L/J			
							Y	Y	Y	B	B			
Inch	O	A	D		C	E	Y	Y	Y	B	B	R	F	
1/2	88.9	60.4	15.9	4	11.2	30.2	14.2	45.9	15.7	22.3	22.6	35.0	9.8	
3/4	98.5	69.8	15.9	4	12.7	38.1	14.2	50.8	15.7	27.6	28.2	42.0	11.1	
1	107.9	79.2	15.9	4	14.2	49.2	16.7	68.8	17.6	34.6	36.0	60.8	12.7	
1 1/4	117.3	88.9	15.9	4	15.7	58.6	19.0	85.6	20.5	43.1	43.6	88.5	14.2	
1 1/2	127.0	98.5	15.9	4	17.5	65.0	20.5	100.4	22.3	49.5	50.0	103.1	15.7	
2	162.4	120.6	19.0	4	19.0	77.7	23.8	121.9	26.4	61.9	62.4	139.1	17.6	
2 1/2	177.8	139.7	19.0	4	22.3	90.4	26.9	140.8	28.4	74.8	75.4	164.6	19.0	
3	190.5	152.4	19.0	4	23.9	107.9	28.4	161.3	30.2	90.6	91.4	190.0	20.5	
4	228.6	190.5	19.0	8	23.9	134.8	31.7	194.6	33.2	116.0	116.8	231.2		
5	254.0	215.9	22.2	8	23.9	163.5	35.0	228.8	36.5	143.7	144.5	265.6		
6	279.4	241.3	22.2	8	25.4	192.0	38.1	268.3	39.8	170.6	171.4	305.9		
8	342.9	298.4	22.2	8	28.4	248.1	42.9	320.0	44.4	221.4	222.2	369.7		
10	406.4	361.9	25.4	12	30.2	304.8	47.7	380.0	49.2	276.3	277.3	438.8		
12	482.8	431.6	25.4	12	31.6	365.2	53.6	442.7	55.6	327.1	328.1	511.0		
14	533.4	478.2	28.6	12	35.0	400.0	55.6	492.4	70.2	359.1	360.1	571.2		
16	596.9	539.7	28.6	16	36.6	457.2	61.9	554.4	87.8	410.4	411.2	649.9		
18	635.0	577.8	31.7	18	39.8	504.9	68.5	611.8	96.7	461.7	462.2	718.4		
20	688.5	635.0	31.7	20	42.9	558.8	71.3	671.3	103.1	513.0	514.3	794.2		
24	812.8	749.3	34.9	20	47.8	663.4	81.0	791.8	111.2	616.9	616.9	941.2		

General Note : All Dimensions are in millimeters.

1) Thickness 'C' is inclusive Raised Face Thickness of 1.6 MM. For Class 150 and Class 300.

DIMENSION OF FLANGES TO ASME / ANSI B 16.5



DIMENSIONS OF CLASS 300 FLANGES (ASME / ANSI B16.5)

(in mm)

Nominal Size Inch	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
							S/O&S/W	W/N	L/J	S/O&S/W	L/J		
							Y	Y	Y	B	B		
1/2	95.2	66.5	15.9	4	14.2	38.1	20.5	50.8	22.3	22.3	22.8	35.0	9.6
3/4	117.3	82.5	19.0	4	15.7	47.7	23.8	55.6	25.4	27.6	28.2	42.9	11.1
1	123.9	88.9	19.0	4	17.5	53.8	25.4	60.4	26.9	34.5	35.0	50.8	12.7
1 1/4	133.3	98.5	19.0	4	19.0	63.5	25.4	63.5	26.9	43.1	43.6	63.5	14.2
1 1/2	155.4	114.3	22.2	4	20.6	69.8	28.4	66.5	30.2	49.5	50.0	73.1	15.7
2	165.1	127.0	19.0	8	22.4	84.0	33.2	69.8	33.2	61.9	62.4	91.9	17.5
2 1/2	190.5	149.3	22.2	8	25.4	100.0	38.1	76.2	38.1	74.6	75.4	104.6	19.0
3	209.5	168.1	22.2	8	28.4	117.3	42.9	79.2	42.9	90.6	91.4	127.0	20.5
4	254.0	200.1	22.2	8	31.8	146.0	47.7	85.8	47.7	116.0	116.8	157.2	-
5	279.4	234.9	22.2	8	35.0	177.8	50.8	98.5	50.8	143.7	144.5	185.6	-
6	317.5	269.7	22.2	12	36.6	206.2	52.3	98.5	52.3	170.6	171.4	215.9	-
8	381.0	330.2	25.4	12	41.1	260.3	61.9	111.2	61.9	221.4	222.2	269.7	-
10	444.5	387.3	28.6	16	47.8	320.5	66.5	117.3	95.2	276.3	277.3	323.8	-
12	520.7	450.8	31.7	16	50.8	374.6	73.1	130.0	101.6	327.1	328.1	381.0	-
14	584.2	514.3	31.7	20	53.8	425.4	76.2	142.2	111.2	359.1	360.1	412.7	-
16	647.7	571.5	34.9	20	57.2	482.6	82.5	146.0	120.6	410.4	411.2	469.9	-
18	711.2	628.6	34.9	24	60.5	533.4	88.9	158.7	130.0	461.7	462.2	533.4	-
20	774.7	685.8	34.9	24	63.5	587.2	95.2	162.0	139.7	513.0	514.3	584.2	-
24	914.4	812.8	41.3	24	69.9	701.5	106.4	168.1	152.4	615.9	615.9	692.1	-

DIMENSIONS OF CLASS 600 FLANGES (ASME / ANSI B16.5)

(in mm)

Nominal Size Inch	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
							S/O&S/W	W/N	L/J	S/O&S/W	L/J		
							Y	Y	Y	B	B		
1/2	95.2	66.5	15.9	4	14.2	38.1	22.3	52.3	22.2	22.3	22.8	35.0	9.6
3/4	117.3	82.5	19.0	4	15.7	47.7	25.4	57.1	25.4	27.6	28.2	42.9	11.1
1	123.9	88.9	19.0	4	17.5	53.8	26.9	61.9	26.9	34.5	35.0	50.8	12.7
1 1/4	155.4	98.5	19.0	4	20.6	63.5	28.4	66.5	28.4	43.1	43.6	63.5	14.2
1 1/2	165.1	114.3	22.2	4	22.3	69.8	31.7	69.8	31.7	49.5	50.0	73.1	15.7
2	190.5	127.0	19.0	8	25.4	84.0	36.5	73.1	36.5	61.9	62.4	91.9	17.5
2 1/2	209.5	149.3	22.2	8	28.4	100.0	41.1	79.2	41.1	74.6	75.4	104.6	19.0
3	273.0	168.1	22.2	8	31.8	117.3	45.9	82.5	45.9	90.6	91.4	127.0	20.5
4	330.2	215.9	25.4	8	38.1	152.4	53.8	101.6	53.8	116.0	116.8	157.2	-
5	355.6	266.7	28.6	8	44.4	188.9	60.4	114.3	60.4	143.7	144.5	185.6	-
6	419.1	292.1	28.6	12	47.7	222.2	66.5	117.3	66.5	170.6	171.4	215.9	-
8	508.0	349.2	31.7	12	55.6	273.0	76.2	133.3	76.2	221.4	222.2	269.7	-
10	558.8	431.8	34.9	16	63.5	342.9	85.8	152.4	111.2	276.3	277.3	323.8	-
12	603.2	488.9	34.9	20	66.5	400.0	91.9	155.4	117.3	327.1	328.1	381.0	-
14	685.8	527.0	38.1	20	69.9	431.8	93.7	165.1	127.0	359.1	360.1	412.7	-
16	503.2	603.2	41.3	20	76.2	495.3	106.4	177.8	139.7	410.4	411.2	469.9	-
18	742.9	654.0	44.4	20	82.6	546.1	117.3	184.1	152.4	461.7	462.2	533.4	-
20	812.8	723.9	44.4	24	88.9	609.6	127.0	190.5	165.1	513.0	514.3	584.2	-
24	939.8	838.2	50.8	24	101.6	717.5	139.7	203.2	184.1	615.9	615.9	692.1	-

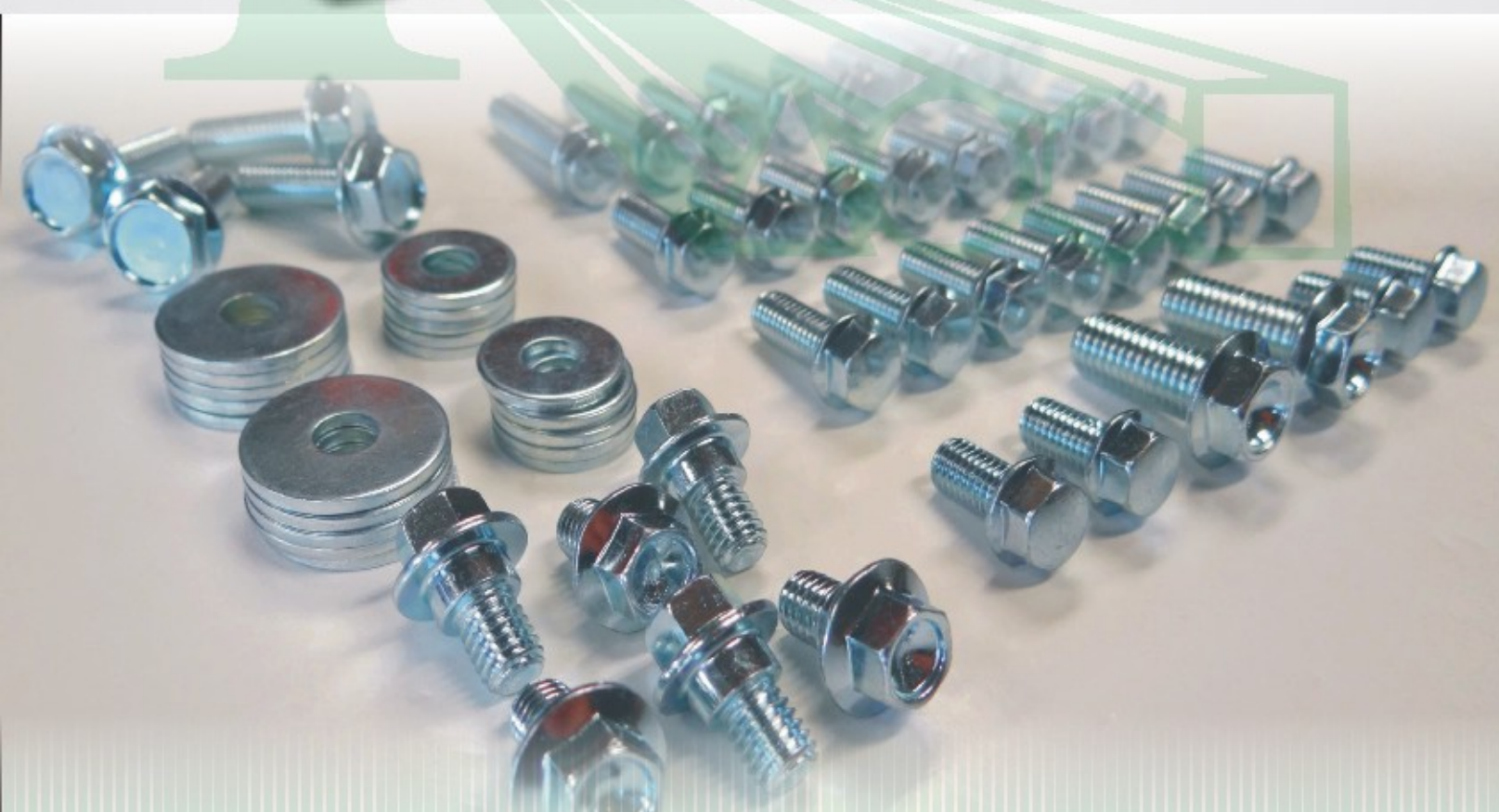
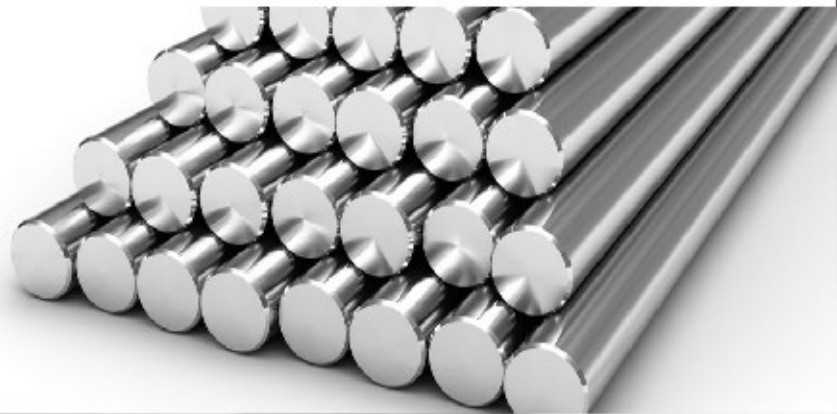
General Note : All Dimensions are in millimeters.

1) Thickness 'C' is inclusive Raised Face Thickness of 1.6 MM. For Class 150 and Class 300.



Stainless Steel Pipe Dimension as per ASTM and weight per Mtr (ANSI B 36.19-1965)

Nominal Bore		Outside Diameter	Schedule 5S		Schedule 10S		Schedule 40S		Schedule 80S		Schedule 160S		Schedule XXS	
MM	INCH		Wt MM	Weight (Kg/M)	Wt MM	Weight (Kg/M)	Wt MM	Weight (Kg/M)	Wt MM	Weight (Kg/M)	Wt MM	Weight (Kg/M)	Wt MM	Weight (Kg/M)
3	1/8	10.3	1.24	0.276	1.24	0.26	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	-	-	-	-
16	1/2	21.3	1.65	0.900	2.11	1.00	2.77	1.27	3.75	1.62	4.76	1.94	7.47	2.55
20	3/4	26.7	1.65	1.03	2.11	1.26	2.87	1.68	3.91	2.20	5.54	2.89	7.62	3.63
25	1	33.4	1.65	1.30	2.77	2.09	3.36	2.50	4.55	3.24	6.36	4.24	9.09	5.45
32	1.1/4	42.2	1.65	1.65	2.77	2.70	3.66	3.38	4.65	4.47	6.36	5.61	9.70	7.77
40	1.1/2	48.3	1.65	1.91	2.77	3.11	3.66	4.05	5.06	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	6.54	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	18.05	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	18.96	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	155.16
300	12	323.9	3.96	31.25	4.67	36.00	9.52	73.89	12.7	132.0	33.32	238.76	25.40	185.97
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	41.66	4.78	47.29	12.7	123.30	24.41	203.39	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	16.09	183.42	26.19	311.2	49.99	564.68	-	-
600	24	608.6	5.54	82.47	6.35	94.45	17.48	255.41	30.99	442.08	59.54	806.22	-	-



BUSINESS FORMULA
 COMPETITIVE PRICE + SPECIFIED MATERIAL + TIME BOUND DELIVERY = INCREASING BUSINESS

FORMULAE

- 1) **WEIGHT OF STAINLESS STEEL PIPES & TUBES**
 $OD (mm) - W.T.(mm) \times W .T. (mm) \times 0.02466 = \text{kg.per Mtr.}$
- 2) **SHEET WIDTH REQUIRED FOR ROLLED AND WELDED PIPES**
 $O.D. (mm) - THK (mm) \times 3.14 = \text{Sheet Width}$
- 3) **WEIGHT OF STAINLESS STEEL SHEETS**
 $\text{Length (mtr)} \times \text{Wdth (mtr)} \times \text{Thk (mm.)} \times 8 = \text{Kg Per Sheet}$
- 4) **WEIGHT OF STAINLESS STEEL CIRCLE & BLANKS**
 $O.D. (mm) \times O.D > (mm) \times \text{Thk (mm)} / 160/1000 = \text{kg Per Pcs.}$
- 5) **WEIGHT OF STAINLESS STEELS ROUNDS**
 $\text{Dia. (mm)} \times \text{Dia (mm)} \times 0.00823 = \text{Per Mtr.}$
- 6) **WEIGHT OF STAINLESS STEEL HEXAGONAL RODS**
 $\text{Dia. (mm)} \times \text{Dia. (mm)} \times 0.00679 = \text{Per Mtr.}$
- 7) **WEIGHT OF STAINLESS STEEL SQUARE BARS**
 $\text{Dia. (mm)} \times \text{Dia (mm)} \times 0.00787 = \text{kg. Per Mtr}$
- 8) **WEIGHT OF CARBON STEEL PIPES & TUBES**
 $O.D. (mm) - W.T. (mm) \times W.T. (mm) \times 0.02466 = \text{kg. per Mtr.}$
- 9) **WEIGHT OF CARBON STEEL SHEETS-PLATES**
 $\text{Length (mtr.)} \times \text{width (mtr)} \times \text{Thk (mm)} \times 7.85 = \text{Kg Per Sheet}$
- 10) **WEIGHT OF COPPER PIPES**
 $O.D. (mm) - W.T. (mm) \times W.T. (mm) \times 0.0256 = \text{Kg.per Mtr.}$
- 11) **WEIGHT OF LEAD PIPES (appro.)**
 $O.D. (mm) - W.T.(mm) \times W.T.(mm) \times 0.0345 = \text{Kg.Per Mtr.}$
- 12) **WEIGHT OF LEAD SHEETS(appro)**
 $\text{Length (mtr.)} \times \text{Width (mtr.)} \times \text{Thk(mm)} \times 11.2 = \text{kg Per Sheet}$
- 13) **WEIGHT OF ALLUMINIUM PIPES (appro.)**
 $O.D. (mm) - W.T. (mm) \times W.T. (mm) \times 0.0082 = \text{Kg.Per Mtr.}$
- 14) **WEIGHT OF ALLUMINIUM SHEETS (appro.)**
 $\text{Length (mtr.)} \times \text{Width (mtr.)} \times \text{Thk (mm)} \times 2.66 = \text{Kg Per Sheet}$

