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JSL  
JINDAL STAINLESS

Stockist of :  
Jindal Stainless Steel  
Sheet, Flat, Angle, Fittings  
& All type of Pipes



# Mahesh

## STEEL WORKS

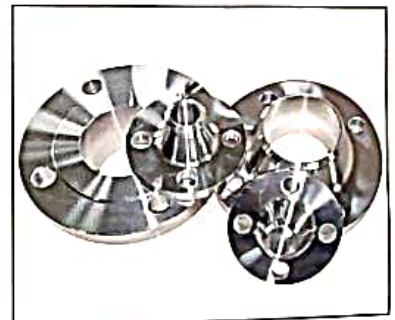
Stockist & Suppliers

Stainless Steel | Carbon Steel | Alloy Steel | Nickel Alloy

- FLANGES
- BUTTWELD FITTINGS
- FORGED FITTINGS
- PIPES & COILS
- DAIRY FITTINGS
- VALVES FITTINGS
- STAINLESS STEEL RAILING WORK'S



# Mahesh STEEL WORKS



# Mahesh STEEL WORKS

## Introduction

Mahesh Steel Works is reputed Importer, Exporter, Stockist, & Suppliers of a comprehensive range of Industrial Product. We are engaged in manufacturing premium grade Pipes & Pipe Fittings as per the requirement of the clients. Apart from that, we supply Stainless Steel Sheet, Plate, Coil, Pipe, Angle, Channel, Pipe Fitting, Forged Fitting, Rod Bar, Wire mesh, Nut-Bolts, Copper, Brass, Aluminum, Nickel, Copper-Nickel, Hastel Alloy, Monel, Titanium, Inconel, etc. Besides, we import Stainless Steel Sheet, Coil, Plates, Pipes, etc. and Supply Ferrous and non-Ferrous Industrial raw material.

All our products meet the International specification for quality and other related norms of the industry. Our products are highly efficacious as well as very reliable, which offers consistent performance for longer period of time. The products, served by us, are used in various industries like sugar mill, Fertilizer Industry, Cement Plants, Paper mills, Petrochemical Plants, Refineries, Chemical Industry, Fabrication units, Textile Industries, Glass Industries, wood industries, steel plants etc. We offer our products in tamper proof packaging to assure completely safety during transit.

### Products offered by Us include

- Carbon Steel Products
- Alloy Steel Products
- Nickel Alloy Products
- Copper Alloy Products

### Quality Assurance

We adhere to various quality parameters to provide the best quality products to the clients and in specified time. We never compromise with the quality and keep stringent checks on the Products to offer only flawless products. We obtain products from the reliable sources, which check the quality of products on various measures from procurement to the packaging and they give guaranty of the premium quality of products

Customer satisfaction is the prime aim of our company and we strive harder to achieve it. Our dedicated team fulfills every need as well as bulky requirement of our client within specified period.

Stainless Steel Grade : AISI 201, 202, 202CU, 304, 304L, 304N, 304LN, 309S, 309H, 309Cb, 309HCB, 310S, 310H, 310Cb, 310HCB, 316, 316L, 316H, 316N, 316LN, 317, 317LN, 321, 321H, 347, 347H, 347LN, 348, 348H, 904, 904L etc.

### Non Ferrous Metals

Mahesh Steel Works has an immense pleasure in introducing itself as an eminent organization that is tagged as one of the leading Stockist and Suppliers of Ferrous and Non-Ferrous. We provide Non Ferrous Metals in varied forms and shape for the convenience of clients.

Monel, Nickel, Inconel, Hast alloy, Copper, Bronze, Titanium, Tantalum, Bismuth, Cadmium, Cobalt, Bi-Metals, White Metals, Aluminum, Lead, Zinc, White Metal, Phosper-Bronze, Cupro-Nickel, HCHCR, High Speed Steel.



## ACRONI

## JSL

JINDAL STAINLESS

## ESSAR



## RATNAMANI<sup>®</sup>

METALS & TUBES LTD.



## ATA STEEL

### Our Values

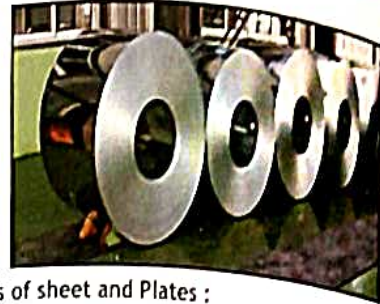
- **Commitment to complete customer satisfaction** - The customer is at the center of every we do. Complete customer satisfaction in terms of products, Services and punctuality-is our bottom line.
- **Compete product selection** - we have got specialized experience and product knowledge, the variety of products in the wide range of sizes.
- **Quality Management** - Our quality management system is as per the national & international standards. Our

# Products

# Mahesh STEEL WORKS

## SHEET, PLATE & COIL

We are renowned stockist and suppliers of sheets, Plates & Coil. Procured from reliable vendors, these are appreciated nationwide by our clients owing to its excellent durability, high tensile strength and malleability.



Below mentioned table represents size range, product standards and material grades of sheet and Plates :

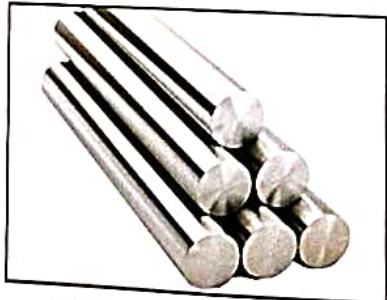
DESCRIPTION	SIZE RANGE	SPECIFICATION	GRADES
Stainless Steel Sheet, Plates and Chequered Plate.	0.1mm to 200 mm Thickness	ASTM A240 ASTM B625	202, 304, 410, 410S, 409, 409L, 430, 430Ti, 420, 304L, 309, 310, 316, 316L, 321, 904L, etc

## S.S. FLANGES & FORGED FITTING



Item	Weld Neck, Slip-On, Screwed, Socket Weld, Lap Joint, Blind, Plate.
Flanges Facing	Raised Face, Flat Face, Lapped joint Face, Male-Female, Tongue & Groove, Ring Joint
Standard	150#, 300#, 600#, 900#, 1500#, 2500# ANSI, BS 10 Standard Table D, E, F, H & ALSO DIN Standard.
Stainless Steel Material	ASTM A240/A-182F-304, 304L, 310, 316, 321, 347, 410S, 409, 409L, 430, 430Ti, 420, 904L
Sizes	1/2"NB to 48 "NB

## ROD, ROUND BARS, SQUARE BARS, HEX BAR & WIRE

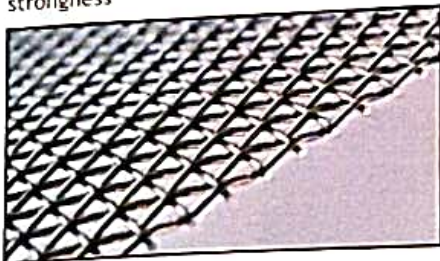


Below mentioned table represents size range, product standards and material grades of round bars :

DESCRIPTION	SIZE	SPECIFICATION	GRADES
Stainless Steel Black Bright and export bright	1 mm to 300 mm Round, Hex and Square	ASTM A276 ASTM A314 ASTM A582 ASTM A479 ASTM A484	202, 304, 304L, 309, 310, 316, 316L, 321, 410S, 409, 409L, 430, 430Ti, 420, 904L etc

## STAINLESS STEEL WIRE - MESH

We are eminent manufacturers of S.S. Wires Which gives quality performance to the clients. We offer this products in various size and dimension. We also customize the product according to the needs of customers. The product is known for its strongness



## Our other Products



S.S. ANGLE



S.S. DAIRY FITTING



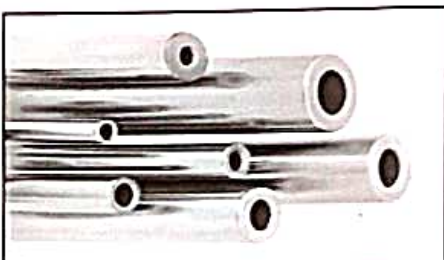
S.S. FLATS BAR (PATTI)



S.S. NUT BOLTS



S.S. CHEQUERED PALTE  
(EMBOSSED FINISH)



S.S. BUSH PIPE



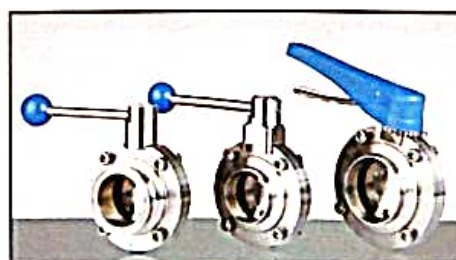
S.S. PIPE (BIG DIAMETER)



S.S. INVESTMENT CASTING  
FITTINGS



S.S. BALL VALVE



S.S. BUTTERFLY VALVE



S.S. ROD

# Stainless Steel

## CHEMICAL COMPOSITION %



# Mahesh STEEL WORKS

AISI ASTM	C Max	Mn Max	P Max	S Max	SI Max	Cr	NI	Mo	other Element	Nearest Equivalent spec. I.S.	En
201	0.15	5.50/7.50	0.06	0.030	1.0	16.0/18.0	3.6/5.5	-	N-25max	10Cr-17Mn6Ni4	-
202	0.15	7.50/10.0	0.06	0.030	1.0	17.0/19.0	4.0/6.0	-	N-25Max-	-	-
301	0.15	2.0Max	0.045	0.040	1.0	16.0/18.0	6.0/8.0	-	-	10Cr17Ni17	-
302	0.15	2.0	0.045	0.030	1.0	17.0/19.0	8.0/10.0	-	-	07Cr18Ni19	-
303	0.15	2.0	0.045	-	1.0	17.0/19.0	8.0/10.0	-	-	15Cr12Ni19	En-52a
304	0.08	2.0	0.045	0.030	1.0	18.0/20.0	8.0/10.0	-	-	04Cr18Ni10	En-52a
304L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	8.0/10.0	-	-	02Cr25Ni11	En-52b
308	0.08	2.0	0.045	0.030	1.0	10.0/21.0	10.0/12.0	-	-	-	-
309	0.20	2.0Max	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	20Cr24Ni12	-
309S	0.08	2.0	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	-	-
310	0.25	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	10Cr17Ni12	-
310S	0.08	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	-	-
314	0.25	2.0	0.045	0.030	1.5to3	25.0/26.0	19.0/22.0	-	-	-	-
316	0.08	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	04Cr17Ni12Mo2	En-52H
316L	0.030	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	03Cr18Ni12Mo2	-
317	0.08	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	-	-
317L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	Ti5cmin	-
316TI	0.080	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	Ti5xCmin	-	-
321	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	-	Ti5xCmin	04Cr18Ni10T120	En-52C
430	0.12	1.00	0.040	0.030	0.75	14.0/18.0	0.60	-	-	07Cr17	En-60
446	0.20	1.50Max	0.040	0.030	1.0	23.0/27.0	0.60Max	-	N-25max	-	-
403	0.15	1.00	0.040	0.030	0.50	11.5/13.0	0.60	-	-	-	-
410	0.15	1.00	0.040	0.030	1.00	11.5/13.5	0.60	-	-	12Cr13	En-58A
410	0.08	1.0	0.040	0.030	1.0	11.5/13.5	0.60Max	-	-	-	-
414	0.15	1.0Max	0.040	0.030	1.0	12.0/14.0	1.25/2.50	-	-	-	-
420	Over0.15	1.0	0.040	0.030	1.00	12.0/14.0	0.60	-	-	22Cr13	En-56CED
431	0.20	1.0Max	0.040	0.030	1.0	15.0/17.0	1.25/2.50	0.75Max	-	15Cr16Ni12	En-57
440A	0.60/0.70	1.0	0.040	0.030	1.0	16/18	-	-	-	-	-
440B	0.75	1.0	0.040	0.030	1.0	16.0/18.0	-	0.75Mx	-	-	-
-	0.95	-	-	-	-	-	-	-	-	-	-
440C	0.95	1.0	0.040	0.030	1.0	16/18	0.75max	-	-	-	-
-	1.2	-	-	-	-	-	-	-	-	-	-
446	0.20	1.50	0.040	0.030	1.0	23.0/210	-	-	-	No.25Max	-

## PHYSICAL PROPERTIES

Grade	Tensile Strength KSI (Mpa)	Yield Strength KSI (Mpa)	Elongation in 2 Inches %min	Max Brin (HB)	Thermal Conductivity Col/sec.cm c At Temp Range 20-500 c	Co-efficient of expansion X 10-6cm/ cm/ c at Temp. Range 20-870 c
TP 301	(75)515	(30)205	35	192	90	0.051
TP 304	(75)515	(30)205	35	192	90	0.051
TP 304L	(70)485	(25)170	35	192	90	0.051
TP304N	(80)565	(35)240	35	192	90	0.051
TP 304LN	(75)515	(30)205	35	192	90	0.051
TP 309	(75)515	(30)205	35	192	90	0.051
TP 310	(75)515	(30)205	35	192	90	0.45
TP 316	(75)515	(30)205	35	192	90	0.044
TP 316L	(70)485	(25)170	35	192	90	0.042
TP 316TI	(75)515	(30)205	35	192	90	0.042
TP 316N	(80)505	(35)240	35	192	90	0.042
TP 316LN	(75)515	(30)205	35	192	90	0.038
TP 317L	(75)515	(30)205	35	192	90	0.42
TP 321	(75)515	(30)205	35	192	90	0.49
TP 347	(75)515	(30)205	35	192	90	0.051
TP 405	(60)415	(30)205	20	207	95	0.53
TP 410	(60)415	(30)205	20	207	95	0.064
TP 429	(60)415	(35)240	20	190	90	0.059
TP 430	(60)415	(35)240	20	190	90	0.061
TP 430TI	(60)415	(35)240	20	190	90	0.062
TP 439	(60)415	(30)205	20	190	90	0.62
UNS S31803	(90)620	(65)450	25	290	30 hrc	0.057
UNS S32205	(95)655	(70)485	25	290	30 hrc	0.041
UNS S32750	(116)800	(80)550	15	300	32hrc	0.041
UNS S32760	(109)750	(80)550	25	300	-	0.04
						0.035
						13.8



# Mahesh STEEL WORKS

## Stainless Steel - Plate, Sheet & Strips

THEORETICAL MASS : PLATE / SHEET

METRIC SIZE PLATES						
Mass of Plate (kg) for Plate size (mm x mm)						
Plate Size						
Thick mm	1000x 2000	1250x 2500	1500x 3000	1500x 5000	1500x 6000	mass/ m <sup>2</sup>
3.50	57	89	128	213	255	28
4.50	73	114	164	274	328	37
6.00	97	152	219	365	438	49
8.00	130	203	292	487	584	65
10.00	162	253	365	608	703	81
12.00	195	304	438	730	876	97
16.00	260	405	584	973	1168	130
20.00	324	506	730	1216	1460	162
25.00	405	634	912	1521	1825	203
30.00	492	769	1476	1845	2214	246

METRIC SIZE PLATES				
Mass of (kg) for Sheet size (mm x mm)				
Sheet Size				
Thick mm	1000x 2000	1250x 2500	1500x 3000	mass/ m <sup>2</sup>
3.00	47.2	73.8	106.2	23.6
2.50	39.3	61.5	88.5	19.7
2.00	31.5	49.2	70.8	15.7
1.50	23.6	36.9	53.1	11.8
1.20	18.9	29.5	42.5	9.4
0.90	14.2	22.1	31.9	7.1
0.70	11.0	17.2	24.8	5.5
0.55	8.7	13.5	19.5	4.3

**Note :** These values for the theoretical mass of plate and sheet products are not be referred to for BILLING MASS PURPOSES. This can necessarily only be obtained from specific plants involved, since there is a tolerance on gauge, width and length of all fault products. These table serve as guidelines only.

## Stainless Steel - Pipes & Tubes

DIMENSION AND WEIGHT - STANDARD TUBING SIZES

DIMENSION		10SWg	12SWg	14SWg	16SWg	18SWg	20SWg	22SWg
SIZE INCHES	OD MM	3.25 MM WT.KG / M	2.64 MM WT.KG / M	2.03 MM WT.KG / M	1.62 MM WT.KG / M	1.21 MM WT.KG / M	0.91 MM WT.KG / M	0.71 MM WT.KG / M
3/8	9.52	0.549	0.447	0.405	0.354	0.268	0.193	0.165
1/2	12.7	0.768	0.654	0.542	0.451	0.350	0.264	0.213
3/4	19.05	1.285	1.068	0.864	0.710	0.554	0.407	0.320
1	25.4	1.181	1.482	1.187	0.969	0.738	0.549	0.432*
1 1/4	31.75	2.318	1.895	1.510	1.228	0.932	0.692	0.543
1 1/2	38.1	2.834	2.309	1.832	1.487	1.126	0.820	0.654
1 3/4	44.45	3.408	2.722	2.191	1.775	1.341	0.834	0.765
2	50.8	3.868	3.136	2.478	2.006	1.541	1.119	0.877
2 1/2	63.5	4.901	3.963	3.123	2.524	1.858	-	-
3	76.2	5.934	4.790	3.453	2.789	2.237	-	-
3 1/2	88.9	6.964	5.617	4.413	3.560	2.616	-	-
4	101.6	8.000	6.444	5.059	4.078	2.995	-	-
4 1/2	114.3	8.900	7.272	5.620	4.501	3.374	-	-
5	127.0	9.917	8.099	6.255	5.008	3.753	-	-
6	152.4	11.953	9.753	7.527	6.023	4.474	-	-



## Stainless Steel - Pipes & Tubes

STAINLESS STEEL PIPE - DIMENSIONS AND WEIGHT ( Schedule, wall thickness & weight)

To ASTM A312 : Seamless and welded austenitic stainless steel pipe

Designation of Diameter		O/D D/A	Nominal Wall Thickness															
(A)	(B)	metter MM	SCH.5S		SCH.5		SCH.10S		SCH.10		SCH.20S		SCH.30		SCH.40S		SCH.40	
			Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr
6	1/8	10.3	1.0	0.23			1.2	0.27			1.5	0.33			1.73	0.37		
8	1/4	13.7	1.2	0.37			1.65	0.49			2.00	0.58			2.24	0.64		
10	3/8	17.2	1.2	0.47			1.65	0.63			2.00	0.74			2.31	0.87		
15	1/2	21.3	1.65	0.81	1.65	0.81	2.11	1.02	2.11	1.02	2.5	1.15			2.77	1.29		
20	3/4	26.7	1.65	1.03	1.65	1.03	2.11	1.30	2.11	1.30	2.5	1.49			2.87	1.71		
25	1	33.4	1.65	1.31	1.65	1.31	2.77	2.13	2.77	2.13	3.00	2.24			3.38	2.54		
32	1 1/4	42.2	1.65	1.67	1.65	1.67	2.77	2.73	2.77	2.73	3.00	2.90			3.56	3.44		
40	1 1/2	48.3	1.65	1.93	1.65	1.93	2.77	3.16	2.77	3.16	3.00	3.35			3.68	4.11		
50	2	60.3	1.65	2.42	1.65	2.42	2.77	3.99	2.77	3.99	3.5	4.90			3.91	5.52		
65	2 1/2	73.0	2.11	3.75	2.11	3.75	3.05	5.34	3.05	5.34	3.5	6.00			5.16	8.77		
80	3	88.9	2.11	4.59	2.11	4.59	3.05	6.56	3.05	6.56	4.00	8.37			5.49	11.47		
90	3 1/2	101.6	2.11	5.25	2.11	5.25	3.05	7.53	3.05	7.53	4.00	9.62			5.74	13.78		
100	4	114.3	2.11	5.93	2.11	5.93	3.05	8.50	3.05	8.50	4.5	12.18			6.02	16.32		
125	5	141.3	2.77	9.61	2.77	9.61	3.40	11.74	3.40	11.74	5.0	16.80			6.55	22.10		
150	6	168.3	2.77	11.47	2.77	11.47	3.40	14.04	3.40	14.04	5.0	22.08			7.11	28.69		
200	8	219.1	2.77	15.00	2.77	15.00	3.76	20.27	3.76	20.27	6.0	33.82	7.04	37.38	8.18	43.20		
250	10	273.1	3.40	22.95	3.40	22.95	4.19	28.20	4.19	28.20	6.35	42.41	7.80	51.81	9.27	61.22		
300	12	323.9	3.40	31.72	4.19	33.60	4.57	36.54	4.57	36.54	6.35	50.48	8.38	66.20	9.53	75.01	10.31	
350	14	355.9	3.96	34.86			4.78	41.99	6.35	55.53	7.92	68.95	9.53	82.58	9.53	82.58	11.13	
400	16	406.4	4.19	42.20			4.78	48.07	6.35	63.61	7.92	79.03	9.53	94.70	9.53	94.70	12.70	
450	18	457.2	4.19	47.46			4.78	54.15	6.35	71.69	7.92	89.10	11.13	124.32	9.53	106.83	14.27	
500	20	508.0	4.78	60.23			5.54	69.70	6.35	79.76	9.53	118.93	12.70	157.51	9.53	118.9	15.06	
550	22	558.8	4.78	65.95			5.54	76.75	6.35	87.84	9.53	131.07	12.70	173.66	9.53	131.07	15.88	
600	24	609.6	5.54	83.80			6.35	95.92	6.35	95.92	9.53	143.20	14.27	212.72	9.53	143.20	17.45	
650	26	660.4																
700	28	711.2																
750	30	762.0	6.35	120.15			7.92	149.55	7.92	149.55	12.70	238.25	15.88	296.68	9.53	179.56		
800	32	812.8																
850	34	863.6																
900	36	914.4																

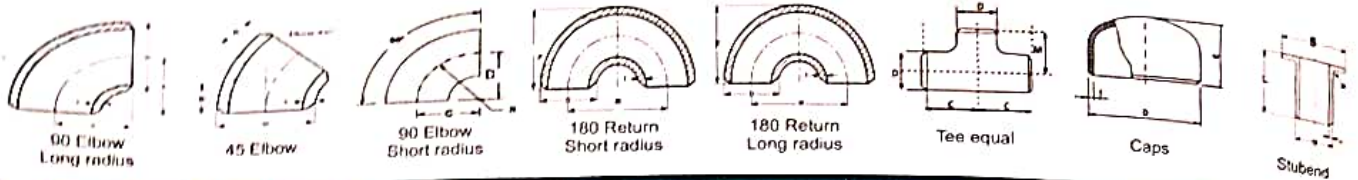




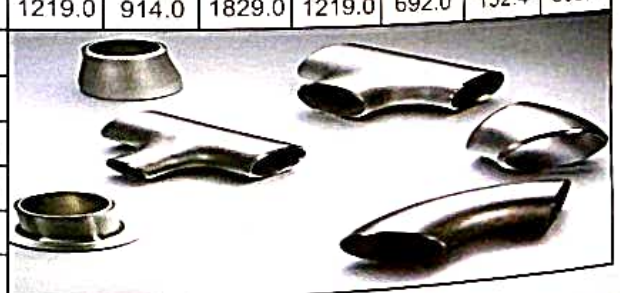


## Stainless Steel - Forge Fittings

BUTT WELDING PIPE FITTING DIMENSION STANDARD ANSI B-16.9, B16.28 & MS SS P43



Nominal Pipe Size		Outside Diameter D	Centre to Face			Back to Face			Centre to Centre				Lenth "L" MSSSP43 B16.9	
Inch	mm		A	B	C	N	E	F	G	R	M	S	L	L
1/2	15	21.3	38.00	16.0	25.0	-	25.0	48.0	-	76.0	-	35.0	50.8	76.2
3/4	20	26.7	29.00	11.0	29.0	-	25.0	43.0	-	57.0	-	43.0	50.8	76.2
1	25	33.4	38.00	22.0	38.0	25.0	38.0	56.0	41.0	76.0	51.0	51.0	50.8	101.6
1 1/4	32	42.2	48.00	25.0	48.0	32.0	38.0	70.0	52.0	95.0	64.0	64.0	50.8	101.6
1 1/2	40	48.3	57.15	29.0	57.0	38.0	38.0	83.0	62.0	114.0	76.0	73.0	50.8	101.6
2	50	60.3	76.00	35.0	64.0	51.0	38.0	106.0	81.0	152.0	102.0	93.0	63.5	152.4
2 1/2	65	73.0	95.25	44.0	76.0	65.0	38.0	132.0	100.0	191.0	127.0	105.0	63.5	152.4
3	80	88.9	114.30	51.0	86.0	76.0	51.0	159.0	121.0	229.0	152.0	127.0	63.5	152.4
3 1/2	90	101.6	133.35	57.0	95.0	89.0	65.4	184.0	140.0	267.0	178.0	140.0	76.2	152.4
4	100	114.3	152.0	63.0	105.0	102.0	64.0	210.0	159.0	305.0	203.0	157.0	76.2	152.4
5	125	141.3	190.0	79.0	123.0	127.0	76.0	262.0	197.0	381.0	254.0	186.0	76.2	203.2
6	150	168.3	229.0	95.0	143.0	152.0	89.0	313.0	237.0	457.0	305.0	216.0	88.9	203.2
8	200	219.1	305.0	127.0	178.0	178.0	102.0	414.0	313.0	610.0	406.0	270.0	101.6	203.2
10	250	273.1	381.0	159.0	216.0	216.0	127.0	515.0	391.0	760.0	508.0	324.0	127.0	254
12	300	323.9	457.0	190.0	254.0	303.0	152.0	619.0	467.0	914.0	610.0	381.0	152.4	254
14	350	355.6	533.0	222.0	279.0	356.0	165.0	711.0	533.0	1067.0	711.0	413.0	152.4	305.0
16	400	406.4	610.0	254.0	305.0	406.0	178.0	813.0	610.0	1219.0	813.0	470.0	152.4	305.0
18	450	452.2	686.0	286.0	343.0	457.0	203.0	914.0	686.0	1372.0	914.0	533.0	152.4	305.0
20	500	508.0	762.0	318.0	381.0	508.0	229.0	1016.0	762.0	1524.0	1016.0	584.0	152.4	305.0
22	550	559	838.0	343.0	419.0	559.0	254.0	1118.0	838.0	1676.0	1118.0	614.40	152.4	305.0
24	600	610	914	381.0	432.0	610.0	267.0	1219.0	914.0	1829.0	1219.0	692.0	152.4	305.0
26	650	660	991.0	406.0	495.0	660.0	267.0							
28	700	711	1067.0	438.0	521.0	771.0	267.0							
30	750	762	1143.0	470.0	589.0	762.0	267.0							
32	800	813	1219.0	502.0	597.0	813.0	267.0							
34	850	864	1295.0	533.0	635.0	864.0	267.0							
36	900	914	1372.0	565.0	673.0	914.0	267.0							



# Stainless Steel - Flanges Fitting

## DIMENSION OF FLANGES AS PER TABLE BS - 10

B.S. 10 Table 'D'

Nominal Pipe Size (in mm)	Diameter of Flange (mm)	Diameter of Bolt Circle (PCD) (mm)	Number of Bolts (mm)	Diameter of Bolts (mm)	Thickness of Flange (mm)
15	95	67	4	13	5
20	102	73	4	13	5
25	114	83	4	13	5
32	121	87	4	12	6
40	133	98	4	13	6
50	152	114	4	16	8
65	165	127	4	16	8
80	184	145	4	16	10
100	216	178	4	16	10
125	254	210	8	16	13
150	279	235	8	16	13
200	337	292	8	16	13
250	406	356	8	19	16
300	457	406	12	19	16
350	527	470	12	22	19
400	578	521	12	22	19
450	641	584	12	22	22
500	705	641	16	25	25
600	826	756	16	29	29

B.S. 10 Table 'F'

Nominal Pipe Size (in mm)	Diameter of Flange (mm)	Diameter of Bolt Circle (PCD) (mm)	Number of Bolts (mm)	Diameter of Bolts (mm)	Thickness of Flange (mm)
15	95	67	4	13	10
20	102	73	4	13	10
25	121	87	4	16	10
32	133	98	4	16	10
40	140	105	4	16	13
50	165	127	4	16	13
65	184	145	8	16	16
80	203	165	8	16	16
100	229	191	8	16	16
125	279	235	8	16	19
150	305	260	8	19	19
200	368	324	12	19	22
250	432	381	12	19	25
300	489	438	16	22	25
350	552	495	16	22	29
400	610	552	20	25	32
450	673	610	20	25	32
500	737	673	24	29	35
600	851	781	24	29	38

B.S. 10 Table 'E'

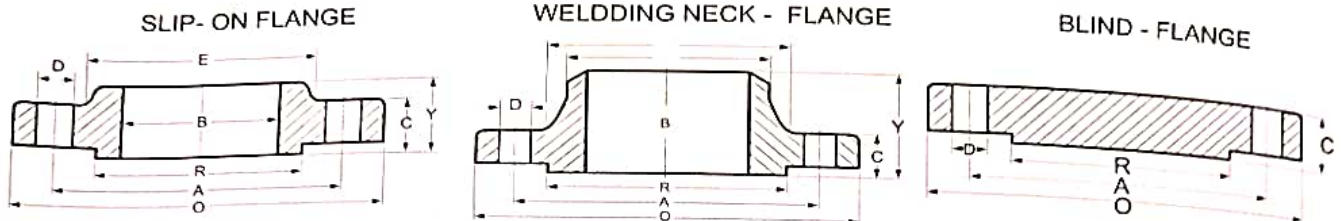
Nominal Pipe Size (in mm)	Diameter of Flange (mm)	Diameter of Bolt Circle (PCD) (mm)	Number of Bolts (mm)	Diameter of Bolts (mm)	Thickness of Flange (mm)
15	95	67	4	13	5
20	102	73	4	13	5
25	114	83	4	13	7
32	121	87	4	13	8
40	133	98	4	13	9
50	152	114	4	16	10
65	165	127	4	16	10
80	184	145	4	16	11
100	216	178	8	16	13
125	254	210	8	16	14
150	279	235	8	19	17
200	337	292	8	19	19
250	406	356	12	19	22
300	457	406	12	22	25
350	527	470	12	22	25
400	578	521	12	22	25
450	641	584	16	22	29
500	705	641	16	22	32
600	826	756	16	25	38

B.S. 10 Table 'H'

Nominal Pipe Size (in mm)	Diameter of Flange (mm)	Diameter of Bolt Circle (PCD) (mm)	Number of Bolts (mm)	Diameter of Bolts (mm)	Thickness of Flange (mm)
15	114	83	4	16	13
20	114	83	4	16	13
25	121	87	4	16	14
32	133	98	4	16	17
40	140	105	4	16	17
50	165	127	4	16	19
65	184	145	8	16	19
80	203	165	8	16	22
100	229	191	8	16	25
125	279	235	8	19	29
150	305	260	12	19	29
200	368	324	12	19	32
250	432	381	12	22	35
300	489	438	16	22	38
350	552	495	16	25	41
400	610	552	20	25	44
450	673	610	20	29	48
500	737	673	24	29	51
600	851	781	24	32	57

# Stainless Steel - Flanges Fitting

## DIMENSION OF FLANGES TO ASME / ANSI B 16.5



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

Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. of Holes	Thickness of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket
							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
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
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
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
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
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
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
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
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
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
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
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
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
300	482.6	431.8	25.4	12	31.8	365.4	55.6	114.3	55.6	327.1	328.2	381.0	39.7
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
400	596.9	539.7	28.6	16	36.5	472.2	63.5	127.0	87.3	410.5	411.2	469.9	44.4
450	635.0	577.8	31.6	16	39.7	507.8	68.3	139.7	96.8	461.8	462.3	533.4	49.2
500	698.5	635.0	31.6	20	42.9	587.8	73.0	144.5	103.2	513.1	514.3	584.2	54.0
600	812.8	749.3	34.9	20	47.6	701.7	82.5	152.4	111.1	615.9	615.9	692.1	63.5

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

Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. of Holes	Thickness of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket
							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
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
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
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
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
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
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
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
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
125	279.4	234.9	22.2	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	36.5	206.4	52.4	98.4	52.4	170.7	171.4	215.9	-
200	381.0	330.2	25.4	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	47.6	320.7	66.7	117.5	95.2	276.3	277.4	323.8	-
300	520.7	450.8	31.7	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	54.0	425.4	76.2	142.9	111.1	359.1	360.2	412.7	-
400	647.7	571.5	34.9	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	60.3	533.4	88.9	158.7	130.2	461.8	462.3	533.4	-
500	774.7	685.8	34.9	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	69.8	701.7	106.4	168.3	152.4	615.9	615.9	692.1	-

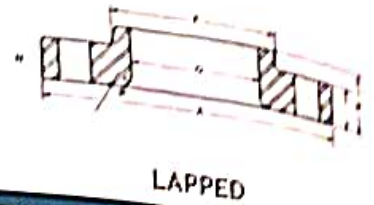
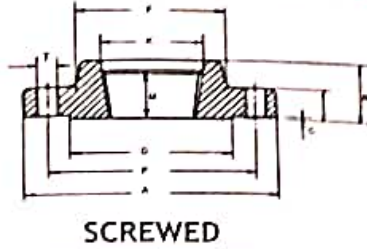
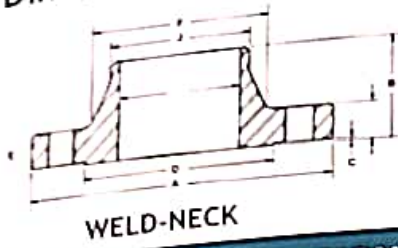
1) All dimension are in Millimeters.

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

# **Mahesh STEEL WORKS**

## Stainless Steel - Flanges Fitting

### DIMENSION OF FLANGES TO ASME / ANSI B 16.5



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

N.B.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	T	No. of Holes
15	95	14.3	6.4	35	22	38	22.4	9.5	21.3	23.5	52	16	22	23.0	66.7	3.0	15.9	4
20	117	15.9	6.4	43	25	48	27.7	11.0	26.7	29.0	57	16	25	28.0	82.6	3.0	19.0	4
25	124	17.5	6.4	51	27	54	34.5	12.5	33.4	36.0	62	17	27	35.0	88.9	3.0	19.0	4
32	133	20.6	6.4	64	29	64	43.2	16.0	42.2	44.5	67	21	29	43.5	98.4	5.0	19.0	4
40	156	22.2	6.4	73	32	70	49.5	17.5	48.3	50.5	70	22	32	50.0	114.3	6.5	22.2	4
50	165	25.4	6.4	92	37	84	62.0	19.0	60.3	63.5	73	29	37	62.5	127.0	8.0	19.0	8
65	190	28.6	6.4	105	41	100	74.4	20.5	73.0	76.0	79	32	41	75.5	149.2	8.0	22.2	8
80	210	31.8	6.4	127	46	117	90.7	-	88.9	92.0	83	35	46	91.5	168.3	9.5	22.2	8
90	229	34.9	6.4	140	49	133	103.4	-	101.6	105.0	86	40	49	104.0	184.2	9.5	22.2	8
100	273	38.1	6.4	157	54	152	116.1	-	114.3	108.0	102	41	54	117.0	215.9	11.0	25.4	8
125	330	44.4	6.4	186	60	189	143.8	-	141.3	145.0	114	48	60	145.0	266.7	11.0	28.6	8
150	356	47.6	6.4	216	67	222	170.7	-	168.3	171.0	117	51	67	171.0	292.1	12.5	28.6	12
200	419	55.6	6.4	270	76	273	221.5	-	219.1	222.0	133	57	76	222.0	349.2	12.5	31.8	12
250	508	63.5	6.4	324	86	343	276.4	-	273.0	276.0	152	65	111	277.0	413.8	12.5	34.9	16
300	559	66.7	6.4	381	92	400	327.2	-	323.9	329.0	156	70	117	328.0	489.0	12.5	34.9	20
350	603	69.8	6.4	413	94	432	359.2	-	355.6	360.0	165	73	127	360.0	527.0	12.5	38.1	20
400	686	76.2	6.4	470	106	495	410.5	-	406.4	411.0	178	78	140	411.0	603.2	12.5	41.3	20
450	743	82.6	6.4	533	117	546	461.8	-	457.2	462.0	184	79	152	462.0	654.0	12.5	44.4	20
500	813	88.9	6.4	584	122	610	513.1	-	508.0	513.0	190	83	165	514.0	723.9	12.5	44.4	24
600	940	101.6	6.4	692	140	718	616.0	-	609.6	614.0	203	92	184	616.0	838.2	12.5	50.8	24

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

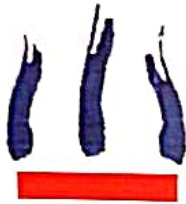
N.B.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	T	No. of Holes
15	121	22.2	6.4	35	32	38	22.4	9.5	21.3	23.5	60	22	32	23.0	82.6	3.0	22.2	4
20	130	25.4	6.4	43	35	44	27.7	11.0	26.7	29.0	70	25	35	28.0	88.9	3.0	22.2	4
25	149	28.6	6.4	51	41	52	34.5	12.5	33.4	36.0	73	29	41	35.0	101.6	3.0	25.4	4
32	159	28.6	6.4	64	41	64	43.2	14.5	42.2	44.5	73	30	41	43.5	111.1	5.0	25.4	4
40	178	31.8	6.4	73	44	70	49.5	16.0	48.3	50.5	83	32	44	50.0	123.8	6.5	28.6	4
50	216	38.1	6.4	92	57	105	62.0	17.5	60.3	63.5	102	38	57	62.5	165.1	8.0	25.4	8
65	244	41.3	6.4	105	64	124	74.7	19.0	73.0	76.0	105	48	64	75.5	190.5	8.0	28.6	8
80	267	47.6	6.4	127	73	133	-	-	88.9	92.0	117	51	73	91.5	203.2	9.5	31.8	8
100	311	54.0	6.4	157	91	162	-	-	114.3	118.0	124	57	91	117.0	241.3	11.0	34.9	8
125	325	73.0	6.4	186	105	197	-	-	141.3	145.0	156	64	105	145.0	292.1	11.0	41.3	8
150	394	82.6	6.4	216	119	229	-	-	168.3	171.0	171	70	119	171.0	317.5	12.5	38.1	12
200	483	92.1	6.4	270	143	292	-	-	219.1	222.0	213	75	143	222.0	393.7	12.5	44.4	16
250	584	108.0	6.4	324	159	368	-	-	273.0	276.0	254	84	178	277.0	482.6	12.5	50.8	20
300	673	123.8	6.4	381	181	451	-	-	323.9	329.0	283	92	219	328.0	571.5	12.5	60.3	24
350	749	133.4	6.4	413	-	495	-	-	355.6	-	298	-	241	360.0	635.0	12.5	66.7	24
400	826	146.1	6.4	470	-	552	-	-	406.4	-	311	-	260	411.0	704.8	12.5	73.0	24
450	914	161.9	6.4	533	-	597	-	-	457.2	-	327	-	276	462.0	774.7	12.5	79.4	24
500	984	178.0	6.4	584	-	641	-	-	508.0	-	356	-	292	514.0	831.8	12.5	92.0	24
600	1168	203.0	6.4	692	-	762	-	-	609.6	-	406	-	330	616.0	990.6	12.5	92.0	24

All dimension are in millimeters  
 Flanges except Lap Joint will be furnished with (1.6) Raised Face, which is included in "Thickness & Lenth through Hub"

## General Information

### SPECIAL FORMULA

- Weight of S.S. Pipe :  
 $OD (MM) \times W.T. (MM) \times W.T. (MM) \times 0.00756 = \text{kg (Per ft)}$   
 $OD (MM) \times W.T. (MM) \times W.T. (MM) \times 0.0248 = \text{kg (Per mtr.)}$
- Weight of S.S. Round Bar :  
 $Dia (MM) \times Dia (MM) \times 0.0019 = \text{kg Per mtr.}$   
 $Dia (MM) \times Dia (MM) \times 0.00623 = \text{kg Per Ft.}$
- Weight of S.S. Hexagonal Bar :  
 $Dia (MM) \times Dia (MM) \times 0.002072 = \text{(kg) Per ft.}$   
 $Dia (MM) \times Dia (MM) \times 0.00680 = \text{(kg) Per mtr.}$
- Weight of S.S. Square Bar :  
 $Dia(mm) \times Dia(mm) \times 0.0024 = \text{Wt Per ft.}$   
 $Dia(mm) \times Dia(mm) \times 0.00780 = \text{Wt Per mtr.}$
- Weight of S.S. Sheet & Plates :  
 (A) Lenght(mtr.) X Width(mtr.) X Thickness(mm) X 8 = Per Pc.  
 (B) Lenght(Feet) X Width(Feet) X Thickness(mm) X 3/4 = Per Pc.
- Weight of S.S. Circle in MM Per Piece :  
 $Dia(mm) \times Dia(mm) \times Thick. (mm) / 160 = \text{Gms. Per Pc.}$   
 $Dia(mm) \times Dia(mm) \times Thick. (mm) \times 0.0000063 = \text{Kg. Per Pc.}$
- Weight of S.S. Flat Bar :  
 $Width(mm) \times Thickness(mm) \times 0.00798 = \text{Weight per mtr.}$   
 $Width(mm) \times Thickness(mm) \times 0.00243 = \text{Weight per Feet}$
- Weight of Brass Pipes / Copper Pipes:  
 $O.D. (mm) - W. Thick (mm) \times W. Thik (mm) \times 0.0260 = \text{Wt. Per. Mtr.}$
- Weight of Lead Pipe :  
 $O.D. (mm) - W. Thick (mm) \times W. Thik (mm) \times 0.0345 = \text{Wt. Per. Mtr.}$
- Weight of Aluminium Pipe :  
 $O.D. (mm) - W. Thick (mm) \times W. Thik (mm) \times 0.0083 = \text{Wt. Per. Mtr.}$
- 1 Feet=0.3048 meter  
 1 mtr=3.2808 ft  
 1 inch=25.4mm  
 1 Pound= 0.454 (45359243)kgs



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