



MAHESH CHAUDHARY

☎ 9971364454



SATI STEEL ENTERPRISES

FERROUS & NON FERROUS METAL MERCHANTS

Stockists & Suppliers of :

Ferrous & Non Ferrous Metals, S.S. Sheets, Plates, Coil, Tee, Elbow, Reducer, Coupling, Flange, Pipe & Pipe Fittings & All Industrial Raw Materials etc. **GRADE : 304, 304L, 316, 316L**

3574/1, HARI BHAI MARKET, KUNCHA DAYARAM, CHAWRI BAZAR, DELHI-110006

Ph. : 011-49051829 Mob.: 7011461834 E-mail: maheshchaudhary6906@gmail.com

Website: satisteelenterprises.in



**TECHNICAL HANDBOOK OF
FERROUS & NON-FERROUS METAL**





COMPANY PROFILE

Suppliers Name SATI STEEL ENTERPRISES

Address 3474/1, Hari Bhai Market, Kuncha Dayaram
Chawari Bazar, Delhi - 110006

Contact No. 011-49051829

Mobile 9971364454

Pin Code 110006

City Delhi

State Delhi

Country Bharat

Business Type Importer, Stockists & Suppliers

Proprietor Mahesh Chaudhary

E-mail maheshchaudhary6906@gmail.com

Website satisteelenterprises.in

GSTIN 07BILPM4505N1ZV





SATI STEEL ENTERPRISES

Mob.: 9971364454
7011461834

Industries Served

- Refineries / Petrochemicals
- Steel Plants
- Cement Plants
- Fertilizer Industries
- Copper Industries
- Chemical Industries
- Textile Industries
- Paper Industries
- Glass Industries
- Wood Industries
- Railway Coaches
- Decoratives
- Power Plants
- Food Industries
- Fabrication
- Ships
- Boilers
- Space Applications
- Energy Industries
- Oil & Gas Industries
- Metallurgical Industries
- Heat Exchangers





BUTT WELD FITTINGS TO ANSI B16.9



FLANGED / SOCKET WELD / SCREWED FITTINGS TO ANSI B16.11 THREADED TO ASA B2.1 2000 LBS / 3000 LBS SERIES / 6000 LBS SERIES



SCREWED FITTINGS BSP /NPT



S.S. INSTRUMENTAL FERRULE FITTINGS





SATI STEEL ENTERPRISES

Mob.: 9971364454
7011461834



Three PC Ball Valve



T C Ball Valve



Y-Type Strainer



Spray Ball Welded



Camlock Coupling



TC Clamp



Tee



Elbow



Union



Elbow



Tee



Blind Flange



Reducing Elbow



Cross



Male Female Bush



Flange SORF



Long Stub End



Reducer



Hex Nipple



Forged Steel Cross



S/W Coupling



Barrel Nipple



Check Nut



End Cap



High Pressure Tee



S/W Tee



S/W Elbow 45°



Sample Cock Valve



Weld Neck Flange



Float Valve



Two Way Valve (SMS)



Three Way Valve (SMS)



Tanker Valve



Butterfly Valve with Union



Butterfly Valve Welded



Micro Valve with Union



Disk Filter with Union



In Line Filter



TC Butterfly Valve



Tanker Valve



Spray Boll Removing



Diaphragm Valve



NRV with Union (SMS)



N R V Welded



Angular Valve



Reducer Concentric



Reducing Incentric



Reducing Liner



Inline Side Glass



DN-100, Side Glass



Welded Union



Tee



U-Bend



Bend



Din Union



SMS Union



Blind Nut



Bend 45°



Long Bend



Bend 45°



Boll Feet



C-Spawner



Foot Valve



TC Clamp



Welded Clamp



Socket Clamp



Wafer Check Valve



Disc Check Valve



NRV Horizontal



Male Connector



Male Elbow



Union Elbow



NRV Vertical



Three Way Valve



Ball Valve



Union



Female Connector



Union Tee



Globe Valve



Gate Valve



Flange Type Ball Valve



Three Way Manifold



Two Way Manifold



Nut Ferrule Valve



INTRODUCTION

This Company is reputed Importer, Exporter, Stockist & Suppliers of a comprehensive range of Industrial Products. 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, Aluminium, 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 specifications 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 complete safety during transit.

Product offered by us include:

Carbon Steel Products	Nickel Alloy Products
Alloy Steel 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 from the reliable sources, which check the quality of products on various measures from procurement to the packaging and they give guarantee of the premium quality of the products.

Customer satisfaction is the prime aim of our company and we strive harder to achieve it. Our dedicated team fulfils small as well as bulky requirement of our client within specified time.

Stainless Steel Grade - AISI 201, 202, 202CU, 304, 304L, 304H, 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

This company has an immense pleasure in introducing itself as an esteemed organization that is tagged as one of the leading Stockist and Supplier of Ferrous and Non-Ferrous. We provide Non-Ferrous Metals in various forms and shape for the convenience of clients.

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



Our Values

- **Commitment to complete customer satisfaction** - The customer is at the center of everything we do. Complete customer satisfaction in terms of products, services and punctuality is our bottom line.
- **Complete product selection** - We have got specialized experience and product knowledge, the variety of products in wide range of sizes that Omex Pipe Industries does.
- **Quality management** - Omex Pipe Industries quality management system is as per the national & international standards. Our product quality is consistently higher than industry specifications.
- **Prompt and reliable customer service.**
- **Competitive pricing** - You might be asking yourself "If Omex Pipe Industries is able to provide such complete combination of value and high quality products, how can they also offer competitive prices?" The answer is contacts and reputed sources from all around the world.

Why US

- Single source for the complete combination of lasting value in products. Industry people agree that higher returns on business investments are realized when any given supplier delivers.
- Because this has been Suraj Mill Store way of doing business, we are recognized today as a leading supplier of high quality Stainless Steel, Alloy Steel, Nickel Alloys, Titanium Alloys, Other Ferrous & Non-Ferrous metals.
- Availability of huge stock of raw materials & welding consumables under a single roof is our speciality.



M.S. BEAMS			M.S. CHANNELS		
Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr	Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr
100x502	432	7.979	75x40	2.172	7.126
100x704	023	13.199	100x50	2.925	9.597
100x754	571	14.997	125x65	3.992	13.098
175x855	943	19.499	150x75	5.120	16.799
200x100	7.893	25.897	175x75	5.973	19.597
250x125	11.612	38.099	200x75	6.796	22.298
300x140	14.782	48.500	250x80	9.326	30.599
350x140	16.125	52.906	300x90	11.063	36.298
400x140	19.080	62.601	400x100	15.270	50.300
450x150	22.280	73.100	M.S. ANGLES		
500x180	26.730	87.700	20x20x3	0.274	0.899
600x210	37.370	122.600	25x25x3	0.335	1.099
			25x25x3	0.578	1.798

M.S. ANGLES			M.S. ANGLES		
Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr	Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr
31x31x3	0.390	1.280	75x75x8	2.712	8.898
35x35x5	0.792	2.599	75x75x10	3.352	10.998
37x37x3	0.518	1.700	80x80x6	2.224	7.297
40x40x3	0.548	1.798	80x80x8	2.925	9.697
40x40x5	0.915	3.002	90x90x6	2.499	8.199
40x40x6	1.066	3.498	90x90x8	3.292	10.801
50x50x5	1.158	3.799	90x90x10	4.084	13.400
50x50x6	1.372	4.502	100x100x6	2.804	9.200
60x60x6	1.645	5.397	100x100x8	2.804	12.097
65x65x6	1.767	5.798	100x100x10	3.687	14.912
65x65x8	2.346	7.697	100x100x12	4.545	17.701
65x65x10	2.864	9.397	110x110x12	5.395	16.497
75x75x6	2.072	6.798	130x130x10	6.004	19.699

M.S. ANGLES			M.S. ROUND		
Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr	Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr
150x150x10	6.950	22.803	6	0.067	0.220
150x150x12	8.290	27.803	8	0.119	0.390
150x150x12	10.911	35.799	10	0.189	0.620
150x150x20	13.441	44.100	12	0.271	0.890
M.S. WINDOW SECTION			16	0.482	1.581
"z"(F-7)	0.45	1.476	20	0.753	2.471
4B	0.750	2.461	25	1.173	3.849
3/4" T Angle	0.275	0.902	32	1.923	6.309
1" T Angle	0.350	1.148	365	2.435	7.989
1½" T Angle	1.100	3.610	40	3.005	9.859
2" T Angle	1.450	4.760	45	3.745	12.287
2½" T Angle	2.100	6.900	50	4.696	5.403
3" T Angle	2.800	9.200	53	5.275	17.307

M.S. ROUND			M.S. PLATE		
Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr	Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr
56	5.895	19.341	4	3.00	32.900
60	6.760	22.180	5	3.800	40.000
63	7.458	24.470	6	4.500	48.000
70	10.563	34.657	8	6.000	54.000
80	12.026	39.457	10	7.500	80.000
90	15.220	49.397	12	9.000	96.000
100	18.793	61.660	16	12.000	128.000
110	22.736	74.597	20	15.000	160.000
125	29.362	96.3325	25	18.750	200.000
M.S. GATE CHANNEL			M.S. CHEQUERED PLATE		
Collapsible		4	3.100	34.000	42.000
Gate	0.180	0.590	5	3.900	50.000
41x32	1.456	4.790	6	4.750	



CHEMICAL COMPOSITION OF STAINLESS STEEL / MECHANICAL PROPERTIES

Grade designation	C %	MN %	SI %	S %	P %	CR %	NI %	MO %	TI %	UTS	YS %	% EL	R.A %
AISI	MAX	MAX	MAX	MAX	MAX					Kg/mm ² min	(0.2% Offset Kg/mm ² min	Min	
302	0.15	2.00	0.75	0.030	0.045	17.00	8.00			53	21	40	50
						19.00	10.00						
304	0.08	2.00	0.75	0.030	0.045	18.00	8.00			53	21	40	50
						20.00	12.00						
304L	0.03	2.00	0.75	0.030	0.045	18.00	8.00			53	21	40	50
						20.00	12.00						
309	0.20	2.00	0.75	0.030	0.045	22.00	12.00			53	21	40	50
						24.00	15.00						
309S	0.08	2.00	0.75	0.030	0.045	22.00	12.00			53	21	40	50
						24.00	15.00						
310	0.25	2.00	0.75	0.030	0.045	24.00	19.00			53	21	40	50
						26.00	22.00						
310S	0.08	2.00	0.75	0.030	0.045	24.00	19.00			53	21	40	50
						26.00	22.00						
316	0.08	2.00	0.75	0.030	0.045	16.00	10.00	2.00		53	21	40	50
						18.00	14.00	3.00					
316L	0.03	2.00	0.75	0.030	0.045	16.00	10.00	2.00		53	21	40	50
						18.00	14.00	3.00					
316Ti	0.08	2.00	0.75	0.030	0.045	16.00	10.00	2.00	5 x C				
						18.00	14.00	3.00	min				
317	0.08	2.00	0.75	0.030	0.045	16.00	10.00	3.00					
						18.00	14.00	4.00					
321	0.08	2.00	0.75	0.030	0.045	17.00	9.00		5xC	53	21	40	50
						19.00	12.00		min				
347	0.08	2.00	0.75	0.030	0.045	17.00	9.00	NS+	To				
						19.00	13.00	10xC	min				
410	0.15	1.00	0.75	0.030	0.040	11.50				49	28	20	50
						13.50							
420	0.15	1.00	0.75	0.030	0.040	12.00				49	28	20	45
						14.00							
430	0.12	1.00	0.75	0.030	0.040	16.00				49	28	20	45
						18.00							
431	0.20	1.00	0.75	0.030	0.040	15.00				49	28	20	45
						17.00							



B.S. 10 Table 'D'

Nominal Pipe Size (in mm)	Diameter of Flange	Diameter of Bolt Circle (PCD)	Number of Bolts	Diameter of Bolts	Thickness of Flange
mm	mm	mm	mm	mm	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	22	25
600	826	756	16	25	29

B.S. 10 Table 'F'

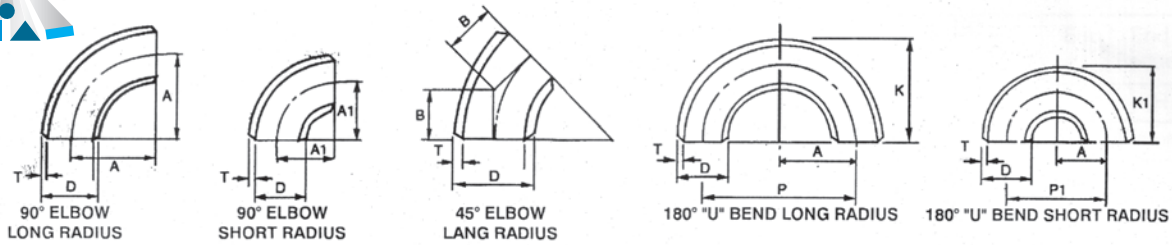
Nominal Pipe Size (in mm)	Diameter of Flange	Diameter of Bolt Circle (PCD)	Number of Bolts	Diameter of Bolts	Thickness of Flange
mm	mm	mm	mm	mm	mm
15	95	67	4	13	10
20	102	83	4	13	10
25	121	87	4	16	10
32	133	98	4	16	13
40	140	105	4	16	13
50	165	127	4	16	16
65	184	145	8	6	16
80	203	165	8	16	16
100	229	191	8	16	19
125	279	235	8	19	22
150	305	260	12	19	22
200	368	324	12	19	25
250	432	381	12	22	25
300	489	438	16	22	29
350	552	495	16	25	32
400	610	552	20	25	32
450	673	610	20	29	35
500	737	673	24	29	38
600	851	781	24	32	38

B.S. 10 Table 'E'

Nominal Pipe Size (in mm)	Diameter of Flange	Diameter of Bolt Circle (PCD)	Number of Bolts	Diameter of Bolts	Thickness of Flange
mm	mm	mm	mm	mm	mm
15	95	67	4	13	6
20	102	73	4	13	6
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	4	16	13
125	254	210	8	16	14
150	279	235	8	19	17
200	337	292	8	19	19
250	406	356	8	19	22
300	457	406	12	22	25
350	527	470	12	22	25
400	578	521	12	22	25
450	641	584	12	22	29
500	705	641	16	22	32
600	826	756	16	25	38

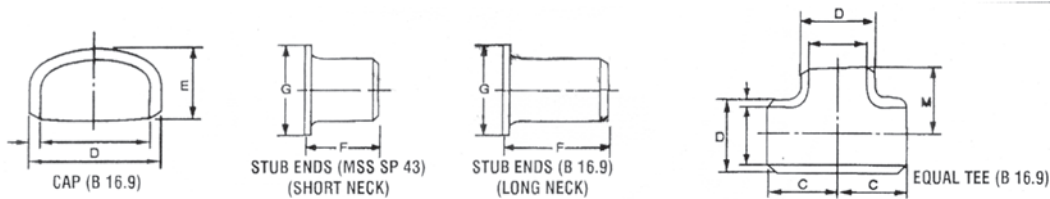
B.S. 10 Table 'F'

Nominal Pipe Size (in mm)	Diameter of Flange	Diameter of Bolt Circle (PCD)	Number of Bolts	Diameter of Bolts	Thickness of Flange
mm	mm	mm	mm	mm	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



DIMENSIONS OF BUTTWELDED FITTINGS (ANSI B 16.9 & B 16.28)

Nominal Pipe Size		OD D			90° L/R B			Centre to End						Centre to Centre						Back to Face					
								45° L/R B			90° S/R A1			180° L/R P			180° S/R P1			180° L/R K			180° S/R K1		
Inch.	mm	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max
1/2	15	20	21	22	36	38	40	14	16	18	-	-	-	69	76	83	-	-	-	41	48	55	-	-	-
3/4	20	26	27	28	36	38	40	17	19	21	-	-	-	69	76	83	-	-	-	36	43	50	-	-	-
1	25	32	33	34	36	38	40	20	22	24	23	25	27	69	76	83	44	51	58	49	56	63	34	41	48
1¼	32	41	42	43	46	48	50	23	25	27	30	32	34	88	95	102	57	64	71	63	70	77	45	52	59
1½	40	47	48	49	55	57	59	27	29	31	36	38	40	107	114	121	69	76	83	76	83	90	55	62	69
2	50	59	60	61	74	76	78	33	35	37	49	51	53	145	152	159	95	102	109	99	106	113	74	81	88
2½	65	72	73	74	93	95	97	42	44	46	62	64	66	184	191	198	120	127	134	125	132	139	93	100	107
3	80	88	89	90	112	114	116	49	51	53	74	76	78	222	229	236	145	152	159	152	159	166	114	121	128
4	100	113	114	116	150	152	154	62	64	66	100	102	104	298	305	312	196	203	210	203	210	217	152	159	166
5	125	140	141	144	188	190	192	77	79	81	125	127	129	374	381	388	247	254	261	255	262	269	190	197	204
6	150	167	168	171	227	229	231	93	95	97	150	152	154	450	457	464	298	305	312	306	313	320	230	237	244
8	200	217	219	221	303	305	307	125	127	129	201	203	205	603	610	617	399	406	413	407	414	421	306	313	320
10	250	270	273	277	379	381	383	157	159	161	252	254	256	752	762	772	498	508	518	511	518	525	384	391	398
12	300	321	324	328	454	457	460	187	190	193	302	305	308	904	914	924	600	610	620	612	619	626	460	467	474
14	350	353	356	360	530	533	536	219	222	225	353	356	359	1057	1067	1077	701	711	721	704	711	718	526	533	540
16	400	403	406	410	607	610	613	251	254	257	403	406	409	1209	1219	1299	803	813	823	806	813	820	603	610	617
18	450	454	457	461	683	686	689	283	286	289	454	457	460	1362	1372	1382	904	914	924	907	914	921	679	686	693
20	500	503	508	514	759	762	765	315	318	321	505	508	511	1514	1524	1534	1006	1016	1026	1009	1016	1023	755	762	769
24	600	605	610	616	911	914	917	378	381	384	607	610	613	1819	1829	1839	1209	1219	1229	1212	1219	1226	907	914	921



DIMENSIONS OF BUTTWELDED FITTINGS (ANSI B 16.9 & MSS SP 43)

Nominal Pipe Size		OD			CAP		Stubend		B 16.9			MSS SP 43			Equal Tees						
		D			E		G		F			F			C			M			
Inch.	mm	Min	Nom	Max	Min	Nom	Max	Min	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max
1/2	15	20	21	22	22	25	28	34	35	74	76	78	49	51	53	23	25	27	23	25	27
3/4	20	26	27	28	22	25	28	42	43	74	76	78	49	51	53	27	29	31	27	29	31
1	25	32	33	34	35	38	41	50	51	100	102	104	49	51	53	36	38	40	36	38	40
1¼	32	41	42	43	35	38	41	63	64	100	102	104	49	51	53	46	48	50	46	48	50
1½	40	47	48	49	35	38	41	72	73	100	102	104	49	51	53	55	57	59	55	57	59
2	50	59	60	61	35	38	41	91	92	150	152	154	62	64	66	62	64	66	62	64	66
2½	65	72	73	74	35	38	41	104	105	150	152	154	62	64	66	74	76	78	74	76	78
3	80	88	89	90	48	51	54	126	127	150	152	154	62	64	66	84	86	88	84	86	88
4	100	113	114	116	61	64	67	156	157	150	152	154	74	76	78	103	105	107	103	105	107
5	125	140	141	144	69	76	83	185	186	201	203	205	74	76	78	122	124	126	122	124	126
6	150	167	168	171	82	89	96	215	216	201	203	205	87	89	91	141	143	145	141	143	145
8	200	217	219	221	95	102	109	269	270	201	203	205	100	102	104	176	178	180	176	178	180
10	250	270	273	277	120	127	134	322	324	252	254	256	125	127	129	214	216	218	214	216	218
12	300	321	324	328	145	152	159	379	381	252	254	257	150	152	154	251	254	257	251	254	257
14	350	353	356	360	158	165	172	411	413	302	305	308	150	152	154	276	279	282	276	279	282
16	400	403	406	410	171	178	185	468	470	302	305	308	150	152	154	302	305	308	302	305	308
18	450	454	457	461	196	203	210	531	533	302	305	308	150	152	154	340	343	346	340	343	346
20	500	503	508	514	222	229	236	582	584	302	305	308	150	152	154	378	381	384	378	381	384
24	600	605	610	616	260	267	274	690	692	302	305	308	150	152	154	429	432	435	429	432	435



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		O/D	Nominal Wall Thickness														
of Diameter		D/A	SCH.5S		SCH.5		SCH.10S		SCH.10		SCH.20S		SCH.30		SCH.40S		SCH.40
(A)	(B)	metter MM	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
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	0.12	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	5.00	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	5.5	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	6.35	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	3.96	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							7.92	129.40	12.70	205.97			9.53	153.32	
700	28	711.2							7.92	139.47	12.70	222.13	15.88	276.48	9.53	167.44	
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							7.92	159.62	12.70	254.44	15.88	316.88	9.53	191.69	17.48
850	34	863.6							7.92	169.64	12.70	270.50	15.88	336.96	9.53	203.74	17.48
900	36	914.4							7.92	179.77	12.70	286.75	15.88	357.38	9.53	215.93	19.05



Stainless Steel - Pipes & Tubes

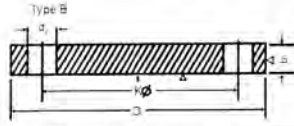
STAINLESS STEEL PIPE - DIMENSIONS AND WEIGHT (Contd.)

To ASTM A312 : Seamless and welded austenitic stainless steel pipe

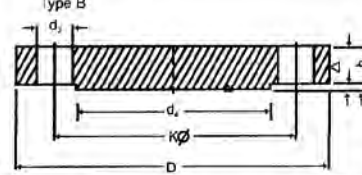
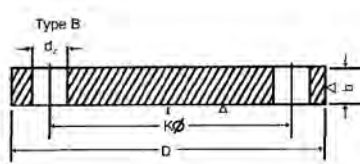
		Nominal Wall Thickness														
SCH.60			SCH.80S		SCH.80		SCH.100		SCH.120		SCH.140		SCH.160		SCH.XXS	
Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr	Wall THK	Weight Kg/Mtr
			2.41	0.47												
			3.02	0.82												
			3.20	1.12												
			3.73	1.64									4.75	1.97	7.47	2.59
			3.91	2.93									5.54	2.93	7.82	3.69
			4.55	3.29									6.35	4.30	9.09	5.53
			4.85	4.53									6.35	5.69	9.70	7.88
			5.08	5.49									7.14	4.35	10.16	9.69
			5.54	7.60									8.71	11.26	11.07	13.65
			7.01	11.59									9.53	15.15	14.02	20.72
			7.62	15.51									11.13	21.67	15.24	28.11
			8.08	18.92											16.15	34.56
			8.56	22.66					11.13	28.75			13.49	34.05	17.12	41.66
			9.53	31.44					12.70	40.90			15.88	49.87	19.05	58.31
			10.97	43.21					14.27	55.03			18.24	68.53	21.95	79.1
	10.81	53.90	12.70	65.63			15.06	76.93	18.24	91.73	20.62	102.47	23.01	112.97	22.23	108.0
	12.20	82.80	12.70	82.80	15.06	97.27	18.24	116.38	21.41	134.90	25.40	157.51	28.58	174.95	25.40	155.5
80.94	14.27	110.62	12.70	98.95	17.45	133.88	21.41	162.14	25.40	189.92	28.58	211.31	33.32	242.40	25.40	189.82
96.00	15.06	128.42	12.70	109.4	19.05	160.54	23.80	157.74	27.76	227.88	31.75	257.47	35.71	286.04		
125.20	16.66	162.59	12.70	125.20	21.41	206.40	26.19	149.34	30.94	290.88	36.53	338.32	40.46	370.54		
158.27	19.5	209.00	12.70	141.35	23.80	258.29	29.36	314.54	34.93	369.34	39.67	414.74	41.24	466.67		
185.89	20.62	251.65	12.70	157.51	26.19	315.97	32.54	387.41	38.10	448.30	44.45	515.94	49.99	573.31		
216.04	22.23	298.55	12.70	173.66	28.57	379.70	34.92	457.83	41.27	535.17	47.62	609.30	53.97	682.57		
258.74	24.59	360.21	12.70	189.82	30.94	448.30	38.89	555.76	46.02	649.44	52.37	730.72	59.51	819.70		
			12.70	205.97												
					12.70	222.13										
					12.70	238.28										
348.11					12.70	254.44										
370.22					12.70	270.50										
427.09					12.70	286.75										



DIN 2527



	NW	D	Flange		Raised Face		No.	Bolts	Dia. of Bolt Hole	d ₂	Weight of One Flange (7.85 kg/dm ³)	
			b	k	d ₁	f					Type-B Kg	Type-C Kg
ND-6	10	75	12	50	35	2	4	M 10	--	11.5	0.38	0.33
	15	80	12	55	40	2	4	M 10	--	11.5	0.44	0.38
	20	90	14	65	50	2	4	M 10	--	11.5	0.65	0.59
	25	100	14	75	60	2	4	M 10	--	11.5	0.82	0.74
	32	120	14	90	70	2	4	M 12	(1/2")	14	1.17	1.07
	40	130	14	100	80	3	4	M 12	(1/2")	14	1.39	1.21
	50	140	14	110	90	3	4	M 12	(1/2")	14	1.62	1.43
	65	160	14	130	110	3	4	M 12	(1/2")	14	2.44	2.21
	80	190	16	150	128	3	4	M 16	(5/8")	18	3.43	3.09
	100	210	16	170	148	3	4	M 16	(5/8")	18	4.76	4.37
	125	240	18	200	178	3	8	M 16	(5/8")	18	6.11	5.68
	150	265	18	225	202	3	8	M 16	(5/8")	18	7.51	7.02
	(175)	295	20	255	232	3	8	M 16	(5/8")	18	10.4	9.85
	200	320	20	280	258	3	8	M 16	(5/8")	18	12.3	11.7
	250	375	22	335	312	3	12	M 16	(5/8")	18	18.3	17.6
ND-10 Note from 10 mm to 175 mm see ND-16	300	440	22	395	365	4	12	M 20	(3/4")	23	25.3	24.0
	350	490	22	445	415	4	12	M 20	(3/4")	23	31.6	30.1
	400	540	22	495	465	4	16	M 20	(3/4")	23	38.4	36.4
	500	645	24	600	570	4	20	M 20	(3/4")	23	60.4	58.1
	200	340	24	295	268	3	8	M 20	(3/4")	23	16.5	15.8
ND-16 Note : For DIN 2527ND-10-4 Holes.	250	395	26	350	320	3	12	M 20	(3/4")	23	24.0	23.1
	300	445	26	400	370	4	12	M 20	(3/4")	23	30.9	29.4
	350	505	26	460	430	4	16	M 20	(3/4")	23	40.6	38.0
	400	565	26	515	482	4	16	M 24	(3/4")	27	49.4	47.5
	500	670	28	620	585	4	20	M 24	(3/4")	27	75.0	72.7
	10	90	14	60	40	2	4	M 12	(1/2")	14	0.63	0.56
	15	95	14	65	45	2	4	M 12	(1/2")	14	0.72	0.64
	20	105	16	75	58	2	4	M 12	(1/2")	14	1.01	0.93
	25	115	16	85	68	2	4	M 12	(1/2")	14	1.23	1.13
	32	140	16	100	78	2	4	M 16	(5/8")	18	1.80	1.66
	40	150	16	110	88	3	4	M 16	(5/8")	18	2.09	1.85
	50	165	18	125	102	3	4	M 16	(5/8")	18	2.88	2.59
	65	185	18	145	122	3	4	M 16	(5/8")	18	3.66	3.33
	80	200	20	160	138	3	4/8	M 16	(5/8")	18	4.77	4.34
	100	220	20	180	158	3	8	M 16	(5/8")	18	5.65	5.26
	125	250	22	210	188	3	8	M 16	(5/8")	18	8.42	7.67
	150	285	22	240	212	3	8	M 20	(3/4")	23	10.4	9.85
	(175)	315	24	270	242	3	8	M 20	(3/4")	23	14.0	13.5
	200	340	24	295	268	3	12	M 20	(3/4")	23	16.1	15.6
	250	405	26	355	320	3	12	M 24	(7/8")	27	24.9	23.9
	300	460	28	410	378	4	12	M 24	(7/8")	27	35.1	33.6
	350	520	30	470	438	4	16	M 24	(7/8")	27	47.8	46.2
	400	580	32	525	490	4	16	M 27	(1")	30	63.5	61.5
	500	715	34	650	610	4	20	M 30	(1 1/8")	33	102	99.5



DIN 2527

	NW	D	Flange b	k	Raised Face d1	f	No.	Bolts	Dia. of Bolt Holt d2	Weight of One Flange (7.85 kg/dm³) Type-B Type-C)	Kg	Kg
ND-25 Note : From 10 mm to 150 m See ND-40	(175)	339	28	280	248	3	12	M 24 (7/8")	27	17.3	16.5	
	200	360	30	310	278	3	12	M 24 (7/8")	27	22.3	21.5	
	250	425	32	370	335	3	12	M 27 (1")	30	33.5	32.5	
	300	485	34	430	395	4	16	M 27 (1")	30	46.3	44.7	
	350	55	38	490	450	4	16	M 30 (1 1/8")	33	68.0	65.9	
	400	620	40	550	505	4	16	M 33 (1 1/4")	36	89.7	87.0	
ND-40	500	730	44	660	615	4	20	M 33 (1 1/4")	36	138	134	
	10	90	16	60	40	2	4	M 12 (1/2")	14	0.72	0.62	
	15	95	16	65	45	2	4	M 12 (1/2")	14	0.81	0.74	
	20	105	18	75	58	2	4	M 12 (1/2")	14	1.24	1.05	
	25	115	18	85	68	2	4	M 12 (1/2")	14	1.38	1.31	
	32	140	18	100	78	2	4	M 16 (5/8")	18	2.03	1.82	
	40	150	18	110	88	3	4	M 16 (5/8")	18	2.35	2.11	
	50	165	20	125	102	3	4	M 16 (5/8")	18	3.20	2.91	
	65	185	22	145	122	3	8	M 16 (5/8")	18	4.29	4.13	
	80	200	24	160	138	3	8	M 16 (5/8")	18	5.88	5.21	
	100	236	24	190	162	3	8	M 12 (3/4")	23	7.54	7.08	
	125	270	26	220	188	3	8	M 24 (7/8")	27	10.8	10.4	
	150	300	28	250	218	3	8	M 24 (7/8")	27	14.5	13.9	
	175	350	32	295	260	3	12	M 27 (1")	30	22.1	21.3	
	200	375	34	320	285	3	12	M 27 (1")	30	27.2	26.2	
	250	450	38	385	345	3	12	M 30 (1 1/8")	33	43.8	43.1	
	300	515	42	450	410	4	16	M 30 (1 1/8")	33	63.3	62.2	
	350	580	46	510	465	4	16	M 33 (1 1/4")	36	89.5	87.2	
	400	660	50	585	535	4	16	M 36 (1 3/8")	39	127	124	
	500	755	52	670	615	4	20	M 39 (1 1/2")	42	172	168	

FLANGE FACINGS TONGUE AND GROOVE, NOMINAL PRESSURE 10 TO 100 ACCORDING TO DIN 2512

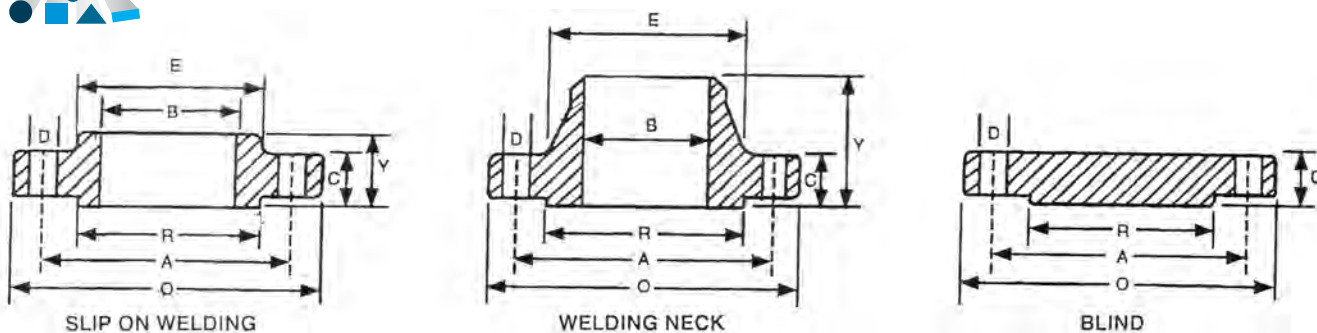


TONGUE



GROOVE

Normal Tongue							Groove						
Pipe Size	d42	d43	f1	d41	d44	f2	Pipe Size	d42	d43	f1	d41	d44	f2
10	24	34	4	23	35	3	175	213	233	4.5	212	234	3.5
15	29	39	4	28	40	3	200	239	259	4.5	238	260	3.5
20	36	50	4	35	51	3	250	292	312	4.5	291	313	3.5
25	47	57	4	42	58	3	300	343	363	4.5	342	364	3.5
32	151	65	4	50	66	3	350	395	421	5	394	422	4
40	61	75	4	60	76	3	400	447	473	5	446	474	4
50	73	87	4	72	88	3	500	549	575	5	548	576	4
65	95	109	4	94	110	3	600	649	675	5	648	676	4
80	106	120	4	105	121	3	700	751	777	5	750	778	4
100	129	149	4.5	128	150	3.5	800	856	882	5	855	883	4
125	155	175	4.5	154	176	3.5	900	961	987	5	960	988	4
150	183	203	4.5	182	204	3.5	1000	1061	1091	6	1060	1092	5



DIMENSIONS OF CLASS 150 FLANGES (ANSI B 16.5)

(in mm)

Nominal Pipe Size (inch)	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes B	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 Y	W/N Y	L/J Y	S/O & S/W B	L/J B		
1/2	15	88.9	60.3	15.9	4	11.1	14	46	16	22.2	22.9	34.9	10
3/4	20	98.4	69.9	15.9	4	12.7	14	51	16	27.7	28.2	42.9	11
1	25	107.9	79.4	15.9	4	14.3	16	54	17	34.5	34.9	50.8	13
1 1/4	32	117.5	88.9	15.9	4	15.9	19	56	21	43.2	43.7	63.5	14
1 1/2	40	127.0	98.4	15.9	4	17.5	21	60	22	49.5	50.0	73.0	16
2	50	152.4	120.7	19.0	4	19.0	24	62	25	61.9	62.5	92.1	17
2 1/2	65	177.8	139.7	19.0	4	22.2	27	68	29	74.6	75.4	104.8	19
3	80	190.5	152.4	19.0	4	23.8	29	68	30	90.7	91.4	127.0	21
4	100	228.6	190.5	19.0	8	23.8	32	75	33	116.1	116.8	157.2	-
5	125	254.6	215.9	22.2	8	23.8	35	87	36	143.8	144.4	185.7	-
6	150	279.4	241.3	22.2	8	25.4	38	87	40	170.7	171.4	215.9	-
8	200	342.9	298.5	22.2	8	28.6	43	100	44	221.5	222.2	269.9	-
10	250	406.4	362.0	25.4	12	30.2	48	100	49	276.2	277.4	323.8	-
12	300	482.6	431.8	25.4	12	31.8	54	113	56	327.0	328.2	381.0	-
14	350	533.4	476.3	28.6	12	34.9	56	125	79	359.2	360.2	412.8	-
16	400	596.9	539.8	28.6	16	36.5	62	125	87	410.5	411.2	469.9	-
18	450	596.0	577.9	31.7	16	39.7	67	138	97	461.8	462.3	533.4	-
20	500	698.5	635.0	31.7	20	42.9	71	143	103	513.1	514.3	584.2	-
24	600	812.8	749.3	34.9	20	47.6	81	151	111	616.0	616.0	692.2	-

DIMENSIONS OF CLASS 300 FLANGES (ANSI B 16.5)

(in mm)

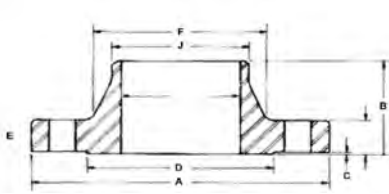
Nominal Pipe Size (inch)	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B		
1/2	15	95.2	66.7	15.9	4	14.3	21	51	22	22.2	22.9	34.9	10
3/4	20	117.5	82.6	19.0	4	15.9	24	56	25	27.7	28.2	42.9	11
1	25	123.8	88.9	19.0	4	17.5	25	60	27	34.5	34.9	50.8	13
1 1/4	32	133.3	98.4	19.0	4	19.1	25	64	27	43.2	43.7	63.5	14
1 1/2	40	155.6	114.3	22.2	4	20.7	29	67	30	49.5	50.0	73.0	16
2	50	165.1	127.0	19.0	8	22.3	32	68	33	61.9	62.5	92.1	17
2 1/2	65	190.5	149.2	22.2	8	25.4	37	75	38	74.6	75.4	104.8	19
3	80	209.5	168.3	22.2	8	28.6	41	78	43	90.7	91.4	127.0	21
4	100	254	200.0	22.2	8	31.8	46	84	48	116.1	116.8	157.2	-
5	125	279.4	235.0	22.2	8	35.0	49	97	51	143.8	144.4	185.7	-
6	150	317.5	269.9	22.2	12	36.6	51	97	52	170.7	171.4	215.9	-
8	200	381	330.2	25.4	12	41.3	60	110	62	221.5	222.2	269.9	-
10	250	444.5	387.4	28.6	16	47.7	65	116	95	276.2	277.4	323.8	-
12	300	520.5	450.8	31.7	16	50.8	71	129	102	327.0	328.2	381.0	-
14	350	584.2	514.4	31.7	20	54.0	75	141	111	359.2	360.2	412.8	-
16	400	647.7	571.5	34.9	20	57.2	81	144	121	410.5	411.2	469.9	-
18	450	711.2	628.6	34.9	24	60.4	87	157	130	461.8	462.3	533.4	-
20	500	774.7	685.8	34.9	24	63.5	94	160	140	513.1	514.4	584.2	-
24	600	914.4	812.8	41.3	24	69.9	105	167	152	616.0	616.0	692.2	-

1) Thickness "C" is Exclusive of Raised Face Thickness of 2 mm for Class 150 and 300.

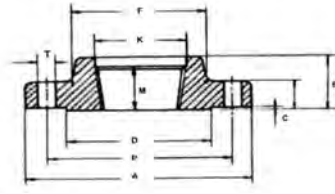


Stainless Steel - Flange Fittings

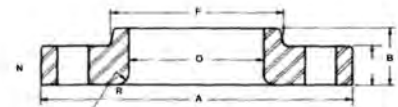
DIMENSION OF FLANGES TO ASME / ANSI B 16.5



WELD-NECK



SCREWED



LAPPED

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	25.4	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 1500 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	12
250	584	108.0	6.4	324	159	368	-	-	273.0	276.0	254	84	178	277.0	482.6	12.5	50.8	12
300	673	123.8	6.4	381	181	451	-	-	323.9	329.0	283	92	219	328.0	571.5	12.5	54.0	16
350	749	133.4	6.4	413	-	495	-	-	355.6	-	298	-	241	360.0	635.0	12.5	60.3	16
400	826	146.1	6.4	470	-	552	-	-	406.4	-	311	-	260	411.0	704.8	12.5	66.7	16
450	914	161.9	6.4	533	-	597	-	-	457.2	-	327	-	276	462.0	774.7	12.5	73.0	16
500	984	178.0	6.4	584	-	641	-	-	508.0	-	356	-	292	514.0	831.8	12.5	79.4	16
600	1168	203.0	6.4	692	-	762	-	-	609.6	-	406	-	330	616.0	990.6	12.5	92.0	16

1) All dimensions 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)"



M.S. SQUARES			M.S. TOR STEELS		
Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr	Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr
9x9	0.195	0.640	6(R)	0.067	0.220
10x10	0.239	0.784	8	0.120	0.395
12x12	0.345	1.132	10	0.188	0.617
16x16	0.612	2.008	12	0.270	0.885
20x20	0.957	3.140	16	0.480	1.578
25x25	1.496	4.908	20	0.751	2.466
32x32	2.450	8.03	25	1.174	3.852
40x40	3.828	12.560	32	1.925	6.313
50x50	5.979	19.617			
63x63	9.497	31.160	12x3	0.086	0.282
75x75	13.456	44.149	12x5	0.143	0.470
100x100	23.925	78.498	20x3	0.143	0.470
110x110	28.948	94.980	18x4	0.145	0.476

M.S. FLATS			M.S. FLATS		
Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr	Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr
20x5	0.241	0.790	32x12	1.005	3.297
20x6	0.239	0.942	32x16	1.342	4.403
25x3	0.183	0.600	40x3	0.274	0.899
25x5	0.305	1.000	40x5	0.487	1.598
25x6	0.365	1.197	40x6	0.580	1.903
25x8	0.470	1.550	40x8	0.762	2.500
25x10	0.609	1.998	40x10	0.945	3.100
25x12	0.731	2.398	40x12	1.158	3.799
32x3	0.243	0.798	40x20	1.523	4.997
32x5	0.395	1.296	40x20	1.920	6.300
32x6	0.457	1.499	40x25	2.407	7.897
32x8	0.671	2.202	40x32	2.897	9.505
32x10	0.854	2.802	50x3	0.365	7.197

M.S. FLATS			M.S. FLATS		
Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr	Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr
9x9	0.609	1.998	63x16	2.407	7.897
10x10	0.731	2.398	63x20	3.017	9.899
12x12	0.944	3.097	63x25	3.779	12.399
16x16	1.188	3.898	63x32	4.815	15.798
20x20	1.432	4.698	63x40	6.034	19.798
25x25	1.920	6.300	75x6	1.066	3.498
32x32	2.377	7.799	75x8	1.432	4.698
40x40	2.986	9.797	75x10	1.798	5.899
50x50	4.754	15.598	75x12	2.163	7.097
63x63	0.915	3.002	75x16	2.864	9.397
75x75	1.219	4.000	75x12	3.596	11.798
100x100	1.500	4.992	75x25	4.480	14.699
110x110	1.796	5.899	75x40	7.200	23.600

M.S. FLATS			M.S. FLATS		
Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr	Size in mm	Weight in Kgs per Feet	Weight in Kgs per Mtr
100x6	1.432	4.698	125x16	4.800	15.750
100x8	1.920	6.300	125x20	5.973	19.597
100x10	2.377	7.798	125x25	7.500	24.600
100x12	2.864	9.397	125x32	9.570	31.399
100x16	3.840	12.599	150x6	2.200	7.218
100x20	4.785	15.700	150x8	2.850	9.400
100x25	5.973	19.599	150x10	3.596	11.798
100x32	7.650	25.099	150x20	7.192	23.597
100x40	9.500	31.17	150x16	5.729	18.797
125x6	1.800	5.900	105x20	7.192	23.597
125x8	2.400	7.900	150x25	8.991	29.499
125x10	2.986	9.797	150x32	11.490	37.699
125x12	3.596	11.798	150x40	14.355	47.099



WEIGHT & THICKNESS OF S.S. GAUGE PIPES

DIMENSION		10 SWG (3.2 MM)	10 SWG (3.2 MM)	10 SWG (3.2 MM)	10 SWG (3.2 MM)	10 SWG (3.2 MM)	10 SWG (3.2 MM)
Size	OD	Weight / MTR	Weight / MTR	Weight / MTR	Weight / MTR	Weight / MTR	Weight / MTR
1/2"	12.7	0.754	0.651	0.552	0.425	0.342	0.290
5/8"	15.875	1.006	0.856	0.718	0.582	0.437	0.369
3/4"	19.05	1.258	1.061	0.883	0.712	0.531	0.448
1"	25.4	1.762	1.470	1.214	0.972	0.720	0.605
1 1/4"	31.75	2.266	1.880	1.544	1.232	0.909	0.763
1 1/2"	38.1	2.770	2.289	1.875	1.492	1.098	0.920
2"	50.8	3.778	3.108	2.537	2.012	1.476	1.235
2 1/2"	63.5	4.786	3.928	3.198	2.531	1.854	1.550
3"	76.2	5.794	4.747	3.860	3.051	2.232	1.865
3 1/2"	88.9	6.802	5.566	4.521	3.571	2.610	2.180
4"	101.6	7.810	6.385	5.183	4.091	2.988	2.495

STOCKISTS & DISTRIBUTORS OF :

PIPES | BOILER TUBES | HEAT EXCHANGE TUBES
FITTINGS | VALVES | FLANGES | ALLOY STEEL
CARBON STEEL | LOW TEMP STEEL | STAINLESS STEEL
STRUCTURAL STEEL | HARDWARE ITEMS

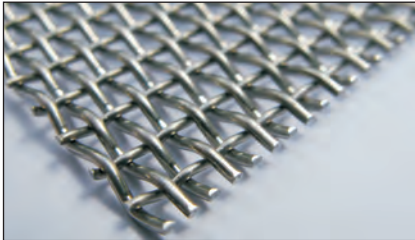




Products

STAINLESS STEEL WIRE - MESH

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



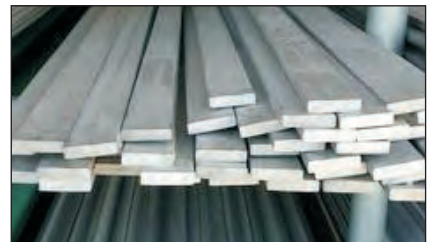
Our Other Products



S.S. ANGLE



S.S. DAIRY FITTING



S.S. FLATS BAR (PATTI)



S.S. NUT BOLTS



S.S. WIRE



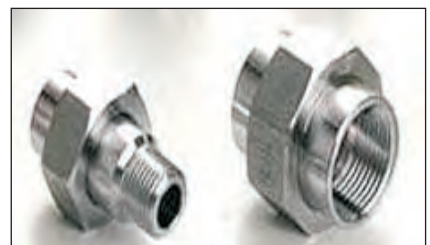
S.S. CHEQUERED PLATE (Embossed Finish)



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



SATI STEEL ENTERPRISES

Mob.: 9971364454
7011461834



NRV Lift Type



NRV Horizontal



NRV Vertical



Sight Glass Flanged



Syphoning Cock



Foot Valve



Micro Valve



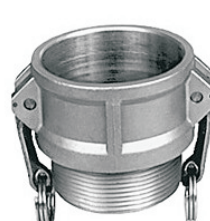
Spray Ball



Cam Lock Coupling



IC Ball Valve Imported



Cam Lock & White Stainer



Cam Lock Coupling



Flexible Hose with Flange



BSP Flexible Hose



Double Check Valve QRC



Single Check Valve QRC



Straught Through QRC



Flow Control Valve



Pressure Relief Valve



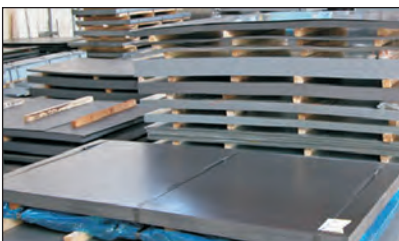
Pressure Gauge



Products

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 standard and materials grades of Sheets 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#, 3000PSI, BS 10 Standard Table D, E, F, H & ALSO DIN Standard
Stainless Steel Material	ASTM 1240/A-182F-304, 304L, 310, 316, 316L, 321, 347, 410S, 409, 409L, 430, 430TI, 420, 904L
Sizes	1/2"NB to 48"NB

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



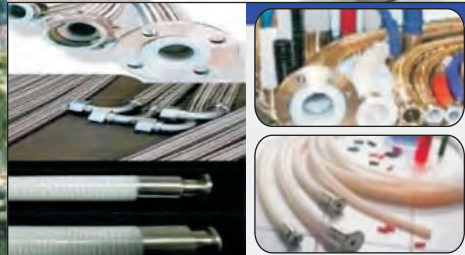
Below mentioned table represents size, range, product standard and materials grades of Round Bars:

Description	Size	Specification	Grades
Stainless Steel Black Bright and export bright	1mm 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.

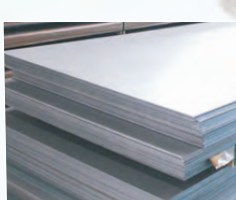


SATI STEEL ENTERPRISES

Mob.: 9971364454
7011461834



Mfg. & Suppliers of : S.S. Corrugated Flexible Hose, FE Corrugated Hose, Steem Hose, Zipe Hose, Food Grade Hose, Chemical Hose, High Pressure Hydraulic Hose, Assembly, All Type Flexible Hose



General Information

Special Formula :

- 1) **Weight of Stainless Steel Pipe**
 $\text{O.D. (mm) - W. Thick (mm) X W. Thick (mm) X 0.0248 = Wt. Per Mtr}$
 $\text{O.D. (mm) - W. Thick (mm) X W. Thick (mm) X 0.00756 = Wt. Per Feet}$
- 2) **Weight of Stainless Steel Round Bar**
 $\text{Dia (mm) X Dia (mm) X 0.00623 = Wt. per Mtr.}$
 $\text{Dia (mm) X Dia (mm) X 0.0019 = Wt. per Feet}$
- 3) **Weight of Stainless Steel Square Bar**
 $\text{Dia (mm) X Dia (mm) X 0.00788 = Wt. per Mtr.}$
 $\text{Dia (mm) X Dia (mm) X 0.0024 = Wt. per Feet}$
- 4) **Weight of Stainless Steel Hexagonal Bar**
 $\text{Dia (mm) X Dia (mm) X 0.00680 = Wt. per Mtr.}$
 $\text{Dia (mm) X Dia (mm) X 0.002072 = Wt. per Feet}$
- 5) **Weight of Stainless Steel Flat Bar**
 $\text{Width (mm) X Thickness (mm) X 0.00798 = Weight per Mtr.}$
 $\text{Width (mm) X Thickness (mm) X 0.00243 = Weight per Feet}$
- 6) **Weight of Stainless Steel Sheets & Plates**
 $\text{Lenght (Mtrs) X Width (Mtrs) X Thick (mm) X 8 = Weight per Pc.}$
 $\text{Lenght (Feet) X Width (Feet) X Thick (mm) X 3/4 = Weight per Pc.}$
- 7) **Weight of Stainless Steel Circle**
 $\text{Dia (mm) X Dia (mm) X Thick (mm) / 160 = Gms. per Pc.}$
 $\text{Dia (mm) X Dia (mm) X Thick (mm) X 0.0000063 = Kg. per Pc.}$
- 8) **Weight of Brass Pipes / Copper Pipes**
 $\text{O.D. (mm) - W. Thick (mm) X W. Thick (mm) X 0.0260 = Wt. Per Mtr.}$
- 9) **Weight Lead Pipe**
 $\text{O.D. (mm) - W. Thick (mm) X W. Thick (mm) X 0.0345 = Wt. Per Mtr.}$
- 10) **Weight of Aluminium Pipe**
 $\text{O.D. (mm) - W. Thick (mm) X W. Thick (mm) X 0.0083 = Wt. Per Mtr.}$
- 11) **Weight of Aluminium Sheet**
 $\text{Lenght (Mtrs) X Width (Mtrs) X Thick (mm) X 2.69 = Weight Per Pc.}$
- 12) **Weight Conversion of Mtr. to Ft.**
 $\text{Weight of 1 Mtr.} - 3.2808 = \text{Feet}$
- 13) **Barlow's Formula for calculating bursting pressure**
 $P = 2 \text{ ST/D or T- DP/2S or S-DP /2T or D} = 2\text{ST/P}$
 $P = \text{Bursting Pressure P Si.,} = \text{Tensile Strenght of tubes,}$
 $T = \text{Wall Thickness (in inches)}$
 $D = \text{Outside Diameter (in inches)}$
- 14) **Formula for Healthy Business**
 $\text{Honesty + Quality of Goods + Quick Service} = \text{Good Healthy}$



SATI STEEL ENTERPRISES

FERROUS & NON FERROUS METAL MERCHANTS

3574/1, HARI BHAI MARKET, KUNCHA DAYARAM, CHAWRI BAZAR, DELHI-110006

Ph. : 011-49051829 Mob.: 9971364454, 7011461834 E-mail: maheshchaudhary6906@gmail.com

Website: satisteelenterprises.in