

Stainless Steel | Mild Steel | Carbon Steel | Copper | Brass | Aluminium



JIGNA
STEEL (INDIA)

AN ISO 9001-2008 CERTIFIED COMPANY

Pipe
Pipe Fittings
Sheets
Plate
Wires
Strips
Angle
Beam
Channel
Rods, Hex, Square
Flanges

Quality | Management | Higher Stocking Capacity



Third Party Inspection



Formula of Calculating Weight

- 1) Weight of S.S. Pipe
 $\text{O.D. (mm)} - \text{W. Thick (mm)} \times \text{W. Thick (mm)} \times 0.0248 = \text{Wt. Per Mtr.}$
 $\text{O.D. (mm)} - \text{W. Thick (mm)} \times \text{W. Thick (mm)} \times 0.00756 = \text{Wt. Per Feet.}$
- 2) Weight of S.S. Round Bar
 $\text{DIA (mm)} \times \text{DIA (mm)} \times 0.00623 = \text{Wt. Per Mtr.}$
 $\text{DIA (mm)} \times \text{DIA (mm)} \times 0.0019 = \text{Wt. Per Feet.}$
- 3) Weight of S.S. Square Bar
 $\text{DIA (mm)} \times \text{DIA (mm)} \times 0.00788 = \text{Wt. Per Mtr.}$
 $\text{DIA (mm)} \times \text{DIA (mm)} \times 0.0024 = \text{Wt. Per Feet.}$
- 4) Weight of S.S. Hexagonal Bar
 $\text{A/F (mm)} \times \text{A/F (mm)} \times 0.00680 = \text{Wt. Per Mtr.}$
 $\text{A/F (mm)} \times \text{A/F (mm)} \times 0.002072 = \text{Wt. Per Feet.}$
- 5) Weight of S.S. Flat Bar
 $\text{Width (mm)} \times \text{Thick (mm)} \times 0.00798 = \text{Wt. Per Mtr.}$
 $\text{Width (mm)} \times \text{Thick (mm)} \times 0.00243 = \text{Wt. Per Feet.}$
- 6) Weight of S.S. Sheets & Plates
 $\text{Length (Mtrs)} \times \text{Width (Mtrs)} \times \text{Thick (mm)} \times 8 = \text{Kg. Per Sheet}$
 $\text{Length (Ft)} \times \text{Width (Ft)} \times \text{Thick (mm)} \times 3/4 = \text{Kg. Per Sheet}$
- 7) Weight of S. S. Circle
 $\text{Dia (mm)} \times \text{Dia (mm)} \times \text{Thick (mm)} \div 160 = \text{Gms. Per PC}$
 $\text{Dia (mm)} \times \text{Dia (mm)} \times \text{Thick (mm)} \times 0.0000063 = \text{Kg. Per PC}$
- 8) Weight of Brass Pipe / Copper Pipe
 $\text{O.D. (mm)} - \text{Thick (mm)} \times \text{Thick (mm)} \times 0.0260 = \text{Wt. Per Mtr.}$
- 9) Weight of Lead Pipe
 $\text{O.D. (mm)} - \text{Wt. (mm)} \times \text{Wt. (mm)} \times 0.0345 = \text{Wt. Per Mtr.}$
- 10) Weight of Aluminium Pipe
 $\text{O.D. (mm)} - \text{Thick (mm)} \times \text{Thick (mm)} \times 0.0083 = \text{Wt. Per Mtr.}$
- 11) Weight of Aluminium Sheet
 $\text{Length (Mtr.)} \times \text{Width (Mtr.)} \times \text{Thick (mm)} \times 2.69 = \text{Wt. Per PC}$
- 12) Weight for Conversion of Mtr. To Feet
 $\text{Weight of 1 Mtr.} \div 3.2808 = \text{Feet}$
- 13) Formula for Calculating Width of Sheet for making Pipe
 $\text{Outer DIA} - \text{Wall Thickness} \times 22/7 = \text{Width of Sheet}$
- 14) Formula For Healthy Business
 $\text{Honesty} + \text{Quality of Goods} + \text{Quick Service} + \text{Reasonable rate} = \text{Good Health of Business}$



AN ISO 9001-2008 CERTIFIED COMPANY

Company Profile

Jigna Steel India : Reliability that counts

When each every one is offering anything to everything in stainless steel we always believed in practicing in what we preach and delivering what we promise. Such reliability factor in product, quality and service come into play and make an impact at all time and act as a guarantee of commitment towards looking beyond obvious.

We have been supplying and retained by our clients in various sectors such as paper, Textile, Sugar, Dairy, Cement, Engineering to more complex such as Petroleum, Chemicals, Power, Offshore, Onshore & Nuclear Industries.

We are on the approved list of Major Govt., Public & Private Sectors Companies. We have dedicated sources, expertise & full technical know-how to supply quality products as per Client's basic & special requirements.

We are leading supplier of Stainless Steel in the form of pipe, Tube, Sheet, Plates, Fittings, Angle, Flanges and all kind of Ferrous & Non Ferrous Metals.

We stock huge amount of material from both indigenous & foreign manufactures, so that we are always ready to supply you the materials "ON DEMAND" at most competitive rates we also have partners in various countries through out the world source hard to find exotic materials Our other advantage is our qualified workforce, we have pool of specialist in field of Technical, Sales & Logistic, who are fully committed to provide with best solution for your business & can help you solve all your procurement problems.

We hope the information provided is useful to you and will forward us your regular enquiries and refinements & provide us with an opportunity to work with your esteemed organisation.

If you have any suggestion or query, on how we can serve you better please do inform us. your suggestions are heartily welcomed.

Quality Policy

- To strive for customer satisfaction by service and technological Integration.
- All departments are fully atomized for better supply chain management to offer best product quality & prompt service to customers.
- To Train, Motivate and Encourage Employees in achieving Company's Goals.
- All our products passes through best of quality systems for material control, process control, testing, finishing and marking.
- Create a sense of responsibility amongst all members of the organization
- To maintain a competent work force through training and continual improvement of Quality Management Skills.
- Continually improve our Quality Management System to ensure its continuing suitability to enable us to stay ahead of competition.



Product Range

PIPES



Stainless Steel : ASTM A312 TP 304/ 304L/ 304H/ 316/ 317L/ 321/310/347/904L etc.

Carbon Steel : ASTM A53 GR. B/ A106 GR. B / API 5L GRADE B/ API 5L GR. X42/46/52/56/60/65/70/ A333 GR. 3/ GR. 6 etc.

Alloy Steel : ASTM A335 GR. P1/P5/P9/ P11/ P22/ P91 etc.

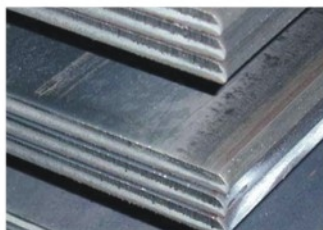
Others : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead.

Types : Round, Square, Rectangular.

Size : Upto 24" NB. (Seamless & welded)

Wall Thickness : Sch.5S to Sch. XXS

SHEETS & PLATES



Sheets :

Material Grade : Stainless Steel, Nickel Alloys, Carbon Steel, Alloy Steel, Other Ferrous & Non-Ferrous Metals.

Thickness : 0.25mm & above

Width : 6mm ~ 2000mm

Length : 1000mm ~ 1000mm

Plates :

Material Grade : Stainless Steel, Nickel Alloys, Carbon Steel, Alloy Steel, Other Ferrous & Non-Ferrous Metals.

Thickness : 3mm & above

Width : 1000mm to 3200mm

Length : 2438mm/3048mm/6096mm to 13500mm

BUTT WELD FITTINGS



Stainless Steel : ASTM A403 WP 304/ 304L/ 304H/316/ 316L/ 317/ 317L/321/310/347/904L etc.

Carbon Steel : ASTM A234 WPB / A420 WPL3/ A420 WPL6/ MSS-SP-75 WPHY 42/46/52/56/60/65/70

Alloy Steel : ASTM A234 Wp1/ Wp5/ WP9/WP11/WP22/WP91 etc.

Others : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead.

Types : Elbow, Tee, Reducer, Return Bends, Stub-Ends, Cap, Collar, Cross, Insert

COILS



Material Grade : Stainless Steel, Nickel Alloy, Carbon Steel, Alloy Steel, Other Ferrous & Non-Ferrous Metals.

Surface : 2B, 2D, BA, HL, No.4

Thickness : 0.31 mm ~ 10 mm

Width : 1000 mm / 1220 mm / 1525 mm / 2000 mm

Product Range

FLANGES



Stainless Steel : ASTM A182 F304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 347/ 904L etc.

Carbon Steel : ASTM A105/ A694 F42/ 46/52/56/60/65/ 70/A350L f3/A350LF2, etc.

Alloy Steel : ASTM A182 F1/ F5/ F9/ F11/ F22/ F91 etc.

Others : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead etc.

Types : Weldneck, Slipon, Blind, Socket Weld, Lap Joint, Spectacles, Ring Joint, Oriface, Long Weldneck, Deck Flange, etc.

Size : ½" NB TO 24" NB.

Class : 150#, 300#, 400#, 600#, 900#, 1500# & 2500#.

FASTENERS



Stainless Steel : AISI 302, 304, 304L, 316, 316L, 310, 317, 317L, 321, 347, 410, 420, 904L etc.

Alloy Steel : 4.6, 5.6, 6.6, 8.8, 10.9 & 12.9 / 'R', 'S', 'T' Conditions.

Carbon Steel : Vane Condition, Galvanized, Phosphetised, Cadmium Plated, Hot Deep Galvanized, Blackened, Nickel Chrome Plated etc.

Non Ferrous Metal : Copper, Brass, Aluminium, Titanium, Nichrome, Al. Bronze Phosphorous Bronze, etc.

Types : Bolts, Nuts, Washers, Anchor Fasteners, Stud Bolts, Eye Bolt, Stud, Threaded Rod, Cotter Pin, Socket Screw, Fine Fasteners & Spares, Foundation Fasteners, etc.

SCREWED & FORGED FITTINGS



Stainless Steel : ASTM A182 F304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 347/ 904L etc.

Carbon Steel : ASTM A105/A694F42/46/52/56/60/ 65/70/ A350LF3/A350LF2.

Alloy Steel : ASTM A182 F1/ F5/ F9/ F11/ F22/ F91 etc.

Others : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead etc.

Types : Elbow, Tee, Union, Cross, Coupling, Cap, Bushing, Plug, Swage Nipple, Welding Boss, Hexagon Nipple, Barrel Nipple, Welding Nipple, Parallel Nipple, Street Elbow, Hexagon Nut, Hose Nipple, Bend, Adapter, Insert, Weldolet, Elbowlet, Sockolet, Thredolet, Nipolet, Letrolet, etc.

Size : 1/4" NB TO 4 NB. (Socketweld & Threaded)

Class : 3000#, 6000#, 9000#.

“ All our products are as per the National & International Standards ”



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DAIRY EQUIPMENTS



Slight Glass

Cross Clamp End

3 Way Ball Valve

Butter Fly Valve

The company offers comprehensive range of superior quality Dairy Fittings in which finest materials are used. We have carved out a niche for ourself as < Dairy Steel > providers at reasonable prices.

This line consists of Tri-Clover parts with either Tri-Weld ends suitable for use with orbital welding equipment or self-aligning Tri-clamp end connections.

Material Of Construction: 304, 304L, 316, 316L etc.,

Finish : Mechanical Polish as well as Electropolish finishes.

Types: Seamless & Welded

Items: Threaded Bevel Seat 90° Elbow 90° Reducing Elbow, Non Tapered 90° Elbow, Plain Bevel Seat 90° Elbow Short Outlet Tee 45° Elbow • Equal Tee • Reducing Tee • Instrument Tee • Short Outlet Reducing Tee Equal Cross • Long Weld Ferrule • Short Weld Ferrule • Ferrule for Expanding (Recessless)

SMS , IDF, DIN UNIONS Etc.,

Size: 1/2" OD to 4" OD

Thickness : 10 Swg to 22 Swg



DAIRY BUTTWELD FITTINGS



IDF UNION



WYE LOOP



CONICAL STRAINER



PIPE HOLDER



BUTTER FLY VALVE



IDF UNION



NON-RETURN VALVE



DIAPHRAGM VALVE



T C CLAMP



HOSE FERRULE

Chemical Composition of Stainless Steel

Chemical Composition of Stainless Steel										Nearest Equivalent Specification		
USN NO.	AISI Grade	C Max	Mn Max	P Max	S Max	Si Max	Cr	Ni	Mo	Cu	I.S.	Other Element
Austentic												
S20100	201	0.15	5.5/7.5	0.06	0.03	1	16.0/18.0	3.5/5.5	-	-	-	-
S20200	202	0.15	7.5/10	0.06	0.03	1	17.0/19.0	4.0/6.0	-	-	-	-
S30100	301	0.15	2.0 max	0.045	0.040	1.0	16.0/18.0	6.0/8.0	-	-	10Cr17Ni7	-
S30200	302	0.15	2.0	0.045	0.030	1.0	17.0/19.0	8.0/10.0	-	-	07Cr18Ni9	E-4-3-4%
S30300	303	0.15	2.0	0.045	0.15 min	1.0	17.0/19.0	8.0/10.0	-	-	15Cr18Ni9	E-4-1%Max
S30400	304	0.08	2.0	0.05	0.030	1.0	18.0/20.0	8.0/10.0	-	-	04Cr18Ni10	-
S30403	304L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	8.0/12.0	-	-	02Cr18Ni11	-
S30453	304LN	0.030	2.0	0.045	0.030	0.75	18.0/20.0	8.0/11.0	-	-	-	-
S30409	304H	0.05	2.0	0.045	0.03	1	18.0/20.0	8.5/9.5	-	-	-	CU:-2-2.50
S30900	309	0.20	2.0 max	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	20Cr24Ni12	-
S30908	309S	0.08	2.0	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	-	-
S31009	310H ⁴	0.25	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	10Cr25Ni12	-
S31008	310S	0.08	2.0	0.045	0.030	15.0	24.0/26.0	19.0/22.0	-	-	-	-
S31600	316	0.08	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	04Cr17Ni12Mo2	-
S31603	316L	0.030	2.0	0.045	0.030	1.0	16.0/18.0	10./14.0	2.0/3.0	-	03Cr17Ni12Mo2	-
S31653	316LN	0.030	2.0	0.045	0.030	0.75	16.0/18.0	10.0/14.0	2.0/3.0	-	-	-
S31635	316Ti	0.080	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	-	Ti5xCmin
S31700	317	0.08	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	-	-
S31703	317L	0.030	2.0	0.045	0.030	1.0	18.0/22.0	11.0/15.0	3.0/4.0	-	-	N:0.10/0.22
S31753	317LN	0.03	2.0	0.045	0.03	1	18.0/20.0	11.0/15.0	3.0/4.0	-	-	N;0.10/0.22
S32100	321	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	-	-	04Cr18Ni10Ti20	Ti5XCmin
S34700	347	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	-	-	04Cr18Ni10Nb-40	Nb/Ta10xCmin
N08904	904L ^G	0.02	2.0	0.045	0.035	1	19.0/23.0	23.0/28.0	4.0-5.0	-	-	CU : 1-2
Ferritic												
S41000	410	0.15	1.00	0.040	0.030	1.0	11.50-13.50	0.75	...	...	...	...
S41008	410S	0.08	1.00	0.040	0.030	1.0	11.50-13.50	0.60	...	...	...	...
S42900	429 ^G	0.12	1.00	0.040	0.030	1.0	14.00-16.00	...	...	...	...	...
S43000	430	0.12	1.00	0.040	0.030	1.0	16.00-18.00	0.75	...	...	...	...
S43035	439	0.07	1.00	0.040	0.030	1.0	17.00-19.00	0.050	...	0.04	...	Ti 0.20+4 (C+N) min ; 1.0 max Al 0.15 max
S44400	444	0.025	1.00	0.040	0.030	1.0	17.5-19.5	1.00	1.75-2.50	0.035	...	Ti + Cb 0.20 + 4 (C+N min)
	409L	< 0.030	<1.00	<1.00	-	-	-	10.50-11.75	~	-	-	Ti 6 x C-0.75
Duplex & Super Duplex												
S31803	—	0.030	2.00	0.030	0.020	1.0	21.0-23.0	4.5-6.5	2.5-3.5	---	0.08-0.20	---
S32550	255 ^G	0.040	1.50	0.040	0.030	1.0	24.0-27.0	4.5-6.5	2.9-3.9	1.50-2.50	0.10-0.25	---
S32750	2507	0.030	1.20	0.035	0.020	0.8	24.0-26.0	6.0-8.0	3.0-5.0	0.50	0.24-0.32	---
S32760	—	0.030	1.00	0.030	0.010	1.0	24.0-26.0	6.0-8.0	3.0-4.0	0.50-1.00	0.20-0.30	W 0.50-1.00

Stainless Steel is essentially a low carbon steel which contains chromium at 10% or more by weight. It is this addition of chromium that gives the steel its unique stainless corrosion resisting Properties. The corrosion resistance and other useful properties of the steel are enhanced by increased chromium content and the addition of other elements such as molybdenum, nickel and nitrogen.

Stainless Steel Pipe Dimension (as per ASTM B 36.19 - 1965)

Nominal Bore		Outside Diameter	Schedule 5S		Schedule 10S		Schedule 20S		Schedule 40S		Schedule 80S		Schedule 160S		Schedule XXS	
mm	inch	mm	w/t mm	weight (kg/mt)	w/t mm	weight (kg/mt)	w/t mm	weight (kg/mt)	w/t mm	weight (kg/mt)	w/t mm	weight (kg/mt)	w/t mm	weight (kg/mt)	w/t mm	weight (kg/mt)
3	1/8	10.3	1.24	0.276	1.24	0.28	1.5	0.33	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.24	0.390	1.65	0.49	2.00	0.58	2.24	0.631	3.02	0.80	-	-	-	-
10	3/8	17.1	1.24	0.490	1.65	0.63	2.00	0.74	2.31	0.845	3.20	1.10	-	-	-	-
15	1/2	21.3	1.65	0.800	2.11	1.00	2.30	1.07	2.77	1.27	3.75	1.62	4.75	1.94	7.47	2.55
20	3/4	26.7	1.65	1.03	2.11	1.28	2.55	1.52	2.87	1.68	3.91	2.20	5.54	2.89	7.82	3.63
25	1	33.4	1.65	1.30	2.77	2.09	3.00	1.94	3.38	2.50	4.55	3.24	6.35	4.24	9.09	5.45
32	1. 1/4	42.2	1.65	1.65	2.77	2.70	3.00	2.90	3.56	3.38	4.85	4.47	6.35	5.61	9.70	7.77
40	1. 1/2	48.3	1.65	1.91	2.77	3.11	3.00	3.55	3.68	4.05	5.08	5.41	7.14	7.25	10.16	9.54
50	2	60.3	1.65	2.40	2.77	3.93	3.00	4.24	3.91	5.44	5.54	7.48	8.74	11.1	11.07	13.44
65	2. 1/2	73.0	2.11	3.69	3.05	5.26	4.00	6.81	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	4.00	8.37	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	4.50	12.18	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	5.00	16.80	6.55	21.8	9.53	31.97	15.88	49.11	19.05	57.43
150	6	168.3	2.77	11.32	3.40	13.84	6.35	25.36	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	19.96	6.35	33.31	8.18	42.6	12.07	64.6	23.0	111.2	22.23	107.8
250	10	273.1	3.40	22.63	4.19	27.78	6.35	41.77	9.27	60.5	15.08	96.0	28.6	172.4	25.40	155.15
300	12	323.9	3.96	31.25	4.57	36.00	6.35	49.7	9.52	73.88	17.45	132.0	33.32	238.76	25.40	186.97
350	14	355.6	3.96	34.36	4.78	41.3	7.92	67.80	11.13	94.59	19.05	158.08	35.71	281.70	-	-
400	16	406.4	4.19	41.56	4.78	47.29	7.92	77.83	12.7	123.30	21.41	203.33	40.46	365.11	-	-
450	18	457.2	4.19	46.80	4.78	53.42	7.92	87.71	14.27	155.80	23.8	254.36	45.71	466.40	-	-
500	20	508.0	4.78	59.25	5.54	68.71	9.53	117.14	15.09	183.42	26.19	311.2	49.99	564.68	-	-
600	24	609.6	5.54	82.47	6.35	94.45	9.53	141.12	17.48	255.41	30.96	442.08	59.54	808.22	-	-

Dimensions of Class 150 Flanges as per ANSI B 16.5

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Lenght through Hub			Dia of Bore		Dia of R/F	Depth of Socket	Pipe Dia
								S/O & S/W	W/N	L/J	S/O & S/W	L/J			
(MM)	(INCH.)	O	A	D		C	E	Y	Y	Y	B	B	R	F	X
15	1/2	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	21.33
20	3/4	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	26.67
25	1	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	33.40
32	1 1/4	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	42.16
40	1 1/2	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	48.26
50	2	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	60.31
65	2 1/2	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	73.02
80	3	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	88.90
100	4	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	114.30
125	5	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	141.30
150	6	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	168.27
200	8	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	219.07
250	10	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	273.05
300	12	482.6	431.8	25.4	12	31.8	365.1	55.6	114.3	55.6	327.1	328.2	381.0	39.7	323.85
350	14	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	355.60
400	16	596.9	539.7	28.6	16	36.5	457.2	63.5	127.0	87.3	410.5	411.2	469.9	44.4	406.40
450	18	635.0	577.8	31.7	16	39.7	504.8	68.3	139.7	96.8	461.8	462.3	533.4	49.2	457.20
500	20	698.5	635.0	31.7	20	42.9	558.8	73.0	144.5	103.2	513.1	514.3	584.2	54.0	508.00
600	24	812.8	749.3	34.9	20	47.6	663.6	82.5	152.4	111.1	615.9	615.9	692.1	63.5	609.60

All Dimensions are in Millimeters • Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, which is included in Thickness(C) and Lenght through Hub(Y).

Dimensions of Class 300 Flanges As Per ANSI B 16.5

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Lenght through Hub			Dia of Bore		Dia of R/F	Depth of Socket	Pipe Dia
								S/O & S/W	W/N	L/J	S/O & S/W	L/J			
(MM)	(INCH.)	O	A	D		C	E	Y	Y	Y	B	B	R	F	X
15	1/2	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	21.33
20	3/4	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	26.67
25	1	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	33.40
32	1 1/4	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	42.16
40	1 1/2	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	48.26
50	2	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	60.31
65	2 1/2	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	73.02
80	3	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	88.90
100	4	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	114.30
125	5	279.4	234.9	22.2	8	34.9	177.8	50.8	98.4	50.8	143.8	144.5	185.7	-	141.30
150	6	317.5	269.9	22.2	12	36.5	206.4	52.4	98.4	52.4	170.7	171.4	215.9	-	168.27
200	8	381.0	330.2	25.4	12	41.3	260.3	61.9	111.1	61.9	221.5	222.2	269.9	-	219.07
250	10	444.5	387.3	28.6	16	47.6	320.7	66.7	117.5	95.2	276.3	277.4	323.8	-	273.05
300	12	520.7	450.8	31.7	16	50.8	374.6	73.0	130.2	101.6	327.1	328.2	381.0	-	323.85
350	14	584.2	514.3	31.7	20	54.0	425.4	76.2	142.9	111.1	359.1	360.2	412.7	-	355.60
400	16	647.7	571.5	34.9	20	57.2	482.6	82.5	146.0	120.6	410.5	411.2	469.9	-	406.40
450	18	711.2	628.5	34.9	24	60.3	533.4	88.9	158.7	130.2	461.8	462.3	533.4	-	457.20
500	20	774.7	685.8	34.9	24	63.5	587.4	95.2	161.9	139.7	513.1	514.3	584.2	-	508.00
600	24	914.4	812.8	41.3	24	69.8	701.7	106.4	168.3	152.4	615.9	615.9	692.1	-	609.60

All Dimensions are in Millimeters • Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, which is included in Thickness(C) and Lenght through Hub(Y).

Steels Weight - Beam / Channel / Angle / Round / Plate

BEAMS			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.
100x50	2.432	7.979	75x40	2.172	7.126
125x70	4.023	13.199	100x50	2.925	9.597
150x75	4.571	14.997	125x65	3.992	13.098
175x85	5.943	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	250x82	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	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

ANGLES			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

ANGLES			ROUND BAR		
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
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	36	2.435	7.989
1 1/2" T Angle	1.100	3.610	40	3.005	9.859
2" T Angle	1.450	4.760	45	3.745	12.287
2 1/2" T Angle	2.100	6.900	50	4.696	15.403
3" tangle	2800	9.200	53	5.275	17.307

ROUNDS			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	49.937	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	200.00
GATE CHANNEL			CHEQURED PLATE		
Coollapseble		4	3,100	34,000	
Gate	0.180	0.590	5	3.900	42.000
41x32	1.456	4.790	6	4.750	50.000

Steels - Squares / TOR / Flates

SQUARES			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	FLATS		
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

FLATS			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	1.197

FLATS			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.
50x5	0.609	1.998	63x16	2.407	7.897
50x6	0.731	2.398	63x20	3.017	9.899
50x8	0.944	3.097	63x25	3.779	12.399
50x10	1.188	3.898	63x32	4.815	15.798
50x12	1.432	4.698	63x40	6.034	19.798
50x16	1.920	6.300	75x6	1.066	3.498
50x20	2.377	7.799	75x8	1.432	4.698
50x25	2.986	9.797	75x10	1.798	5.899
50x40	4.754	15.598	75x12	2.163	7.097
63x6	0.915	3.002	75x16	2.864	9.397
63x8	1.219	4.000	75x12	3.596	11.798
63x10	1.500	4.922	75x25	4.480	14.699
63x12	1.798	5.899	75x40	7.200	23.600

FLATS			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	150x20	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	



Refinery Plant



Petrochemical Plant



Oil & Gas



Water Piping System



Chemical Industry



Cement Industry



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