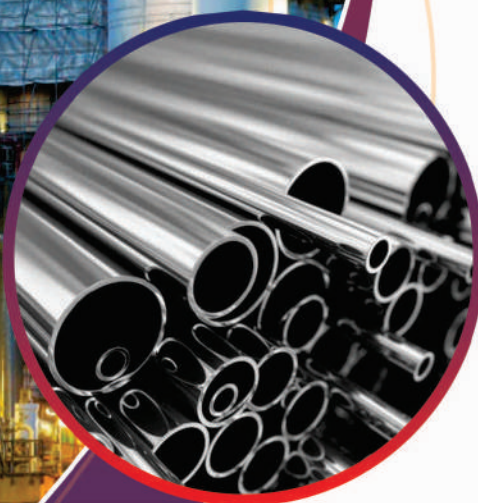


+91 98209 55550
+91 88793 38852



JAINAM FERRO ALLOYS

23, Bhanushali bldg, 1st floor, room no:4, 3rd Panjarapole Lane, Near Gulalwadi Circle, Mumbai:400004
Email : sales@jainamferroalloys.com | Website : www.jainamferroalloys.com



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About Us

Jainam Ferro Alloys one of the leading Manufacturer, Importers, Stockiest, Exporters and Suppliers of Stainless steel, Alloy steel, Carbon steel, Copper, Brass, Inconel, Monel, Aluminum, Hastelloy, Titanium, Tantalum, Hardox in the state of Sheets, Plates, Coils, Pipe, Tubes, Rods, Wires, Angles and the whole scope of Flanges and Pipes Fittings, for example, BW/SW/Screwed/Forged and pressure sort with Ferrules, for example, Elbows, Tees, Reducers, Stubends, Union, Caps, Nipples, Couplings, Elbowlets, Weldolets, Nuts, Bolts, Studs, Washers, Valves, Gaskets and soon.

Exports Having establish our presence in the Indian market, we are now aggressively venturing into exporting of our products to various countries. We are already exporting our product to Europe, middle East, Far East and African Countries.

ISO 9001-2008: In recognition of our efforts in quality control we have been awarded the coveted ISO 9001-2008 quality certification from reputed agency.

Vision To wind up distinctly a venturesome association in the field of Ferrous & non-ferrous metal items. To be known for nature of items and astounding administration.

Mission To Satisfy our customers' needs by giving top notch items at Competitive cost according to the timetable and to keep up long haul association with our customers.

Quality Policy We are focused on ceaselessly update our insight and aptitudes to enhance the effectiveness of our association and take a stab at exceptional nature of our items

Certificates





PIPES & TUBES

Stainless Steel

Size : 1/2"NB to 36"NB ANSI B 16.9 MSS-SP43
 Schedule : Sch. 5 to Sch. XXS
 Specification : ASTM A312, A249, A269, A358
 Grade : 304, 304L, 304H, 315, 316L, 316-1, 316Ti, 316LN, 3095, 309H, 3105, 310H, 317, 317L, 317H, 321, 321H, 347, 347H, 904L, 254 WO, 253 MA
 Specification : ASTM A731, A268
 Grade : 405, 409, 409L, 410, 420, 430, 43011, 439, 444, 446

Carbon Steel

Pipes
 ASTM A106 Gr A, Gr B, Gr C, A53

Tubes

ASTM A179, A210 Gr. A1, BS 3059 Gr.360 / 440
 Low Temp. (LTCS)
 A333 Gr.6

Line Pipes

API 5L Gr.B, X42, X46, X52, X56, X60, X65, X70, X80

Alloy Steel

Pipes
 Specification : ASTM A335
 Grade : P1, P5, P9, P11, P12, P22, P91, P92

Tubes

Specification : ASTM A213
 Grade : T1, T5, T9, T11, T12, T22, T91, T92

Duplex Steel

Specification : ASTM A789, A790
 Grade : UNS S31803, UNS S32205 (2205), UNS S32750 (2507), UNS S32760 (Zeron 100)

Nickel Alloy

Nickel
 Grade : UNS N02200, (AS N02201)
 Inconel : UNS N06600, UNS N06625, UNS N08800,
 Grade : UNS N08810, UNS N08811, UNS N08825

Monel

Grade : UNS N04400, UNS N05500

Hastelloy

Grade : UNS N10276, UNS N06022, UNS N10665
 Alloy 20 : UNS N08020

Copper Nickel

Grade : UNS C70600 (90:10), UNS C71500 (70:30)

Titanium

Specification : B861, B862, B338
 Grade : Gr.1 R 55250 (CP4), Gr.2 R 50400 (CP3)
 Gr.3 50550 (CP2), GrA 50700 (CP1)
 Gr.7 52400, Gr.11 R 52250

Specification : ASTM B861, B862, B338

Grade : Gr.5 R 56400 (6Al-4V), Gr.23 R 56401 (6Al-4V-ELI), Gr.12 R 53400

TYPE

• NOMINAL SIZE PIPE • OD SIZE PIPE • SQUARE PIPE

• EN 10204 3.1/3.2
 Mill Test Certificate • NACE MR0175



PRODUCT RANGE



Buttweld 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.

Duplex & Super Duplex Steel : UNS S31803, UNS S32750, UNS S32760,

Others : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead, 904L, Alloy 20 etc.

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

Size : 1/4" NB TO 32" NB. (Seamless & Welded)

Wall Thickness : Sch. 5S To Sch. XXS.



Forged Socketweld & Screwed Fittings

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 / A350 LF3/ A350 LF2.

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#.



Ferrule Fittings

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

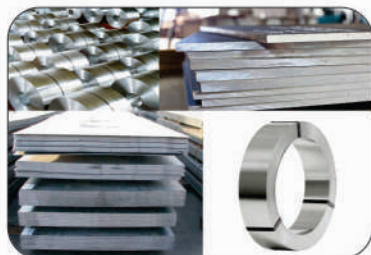
Carbon Steel : ASTM A105 / A694 F42/46/ 52/56/ 60/65/70 /A350 LF3/ A350 LF2.

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

Duplex & Super Duplex Steel : UNS S31803, UNS S32750, UNS S32760, 904L, Alloy 20

Other : Stainless Steel, Nickel Alloys, Carbon Steel, Alloy Steel, Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead, Etc.

Types : Nipples, Adaptors, Crosses, Union Ball Joints, Reducing Bushing, Reducers, Pipe Caps, Couplings, Pipe Plug, Hollow Hex Plug, Elbow, Reducing Union, 90 Deg. Union Elbow, Reducing 90 Deg. Union Elbow Etc. Extender Leg 90 Deg. Union Elbow, 45 Deg. Union Elbow, Union Tee, Female Connector, Male Connector, Manifold Tee, Locator Union, Extended Run Leg Union Tee, Reducing Tee, Tribow, ATW Weld Ring, Tube Socket weld To Pipe Butt Weld, Tube Butt Weld To Tube Socket Weld, Port Connector, Etc.



SHEET, PLATE & COIL

Stainless Steel Coils, Sheets & Plates as per ASTM A 240 Gr. TP 304, 304L, 304LN, 309, 309S, 309H, 310S, 310H, 316, 316L, 316H, 316LN, 316Ti, 317, 317L, 321, 321H, 347, 347H, 348, 348H, 409, 410, 420, 430 etc.

Alloy Steel Plates as per ASTM A 387 Gr. 2, 5, 9, 11, 12 & 22 in class 1 & 2, ASTM A 204, Gr. A & B, DIN 17175 Gr. 15Mo3 & 16Mo3 with IBR Test Certificate.

Carbon Steel / Boiler Quality Plates as per IS 2062 Gr. A, B & C, IS 2002 Gr. 1 & 2, ASTM A516 Gr. 60 & 70 ASTM A515 Gr. 70.

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

Duplex & Super Duplex Steel : UNS S31803, UNS S32750, UNS S32760, 904L, Alloy 20

Types : Sheet, Plates, Strips, etc.



Fasteners & Nut Bolts

Stainless Steel : AISI 302, 304, 304L, 316, 316L, 310, 317, 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 : Bare Condition, Galvanized, Phosphetised, Cadmium Plated, Hot Deep Galvanized, Bloodied, Nickel Chrome Plated etc.

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

Type : Bolts, Nuts, Washers, Anchor, Fastners, Stud Bolts, Eye Bolt, Stud, Threaded Rod, Cotter

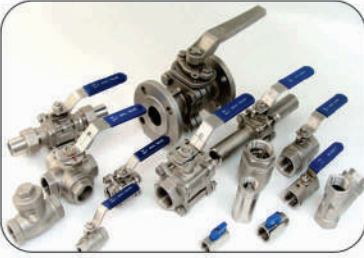


JAINAM FERRO ALLOYS



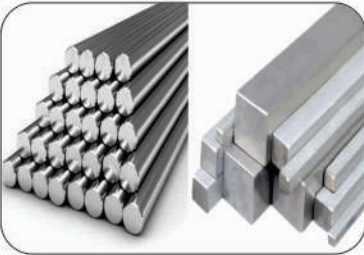
Mob. : +91 98209 55550 / +91 88793 38852

Email : sales@jainamferroalloys.com



Valve

Stainless Steel : AISI 304, 304L, 316, 316L, 310, 317, 317L, 321, 347, 904L etc.
Carbon Steel : A105, A216, Gr. WCB, Cadmium Plated, Nickel, chrome Plated etc.
Non-Ferrous Metal : Copper, Brass, Titanium, Phosphorous Bronze etc.
Type : Ball Valve, Gate Valve, Check Valve, Needle Valve, Mini Valve, Gauge Rott Valve, Globe Valve, Manifolds (2 Way, 3 Way, 5 Way)



Round, Square & Hex Bar

Stainless Steel : As per ASTM A276 & A479 Grade 202 / 304 / 304L / 316 / 316L / 316Ti / 317 / 317L / 321 / 310 / 347 / 410 / 420 / 904 / 303 / 17-4PH, 15-5 PH etc.
Nickel Alloys : Monel, Inconel, Hastelloy, Nickel, Titanium, Alloy 20
Duplex & Super Duplex : UNS 32205, 31803, 32750, 32760,
Types : Round, Square, Rectangular.
Size : 3mm - 75 mm dia ready stock with Mill Test Certificate
Process : Cold Drawn, Annealed, Export Bright & Black
Tolerance : H9, H11



Round, Square & Hex Bar

Stainless Steel : AISI 304, 304L, 316, 316L, 310, 317, 317L, 321, 347, 904L etc.
Carbon Steel : A105, A216, Gr. WCB, Cadmium Plated, Nickel, chrome Plated etc.
Non-Ferrous Metal : Copper, Brass, Titanium, Phosphorous Bronze etc.
Type : Nipple, Dairy Fittings, Union, S.M.S., I.D.F., Dairy Valve, Butterfly Valve, Ball Valve, Needle Valve, N.R.V. Valve, Float Valve, Safety Valve, Cock Valve, Syphon Tube

THIRD PARTY INSPECTION



EIL, HGS, P&D, GLC, TUBOSCOPE, VELOSI, MOODY, VETCO, IRS, BVIS, DNV, J & HG, BS, TCS, PDIL, TUV etc.

NABL & Government Approved Labs



We can also supply all the materials with NABL & Government Approved Labs Like:



- | | |
|--------------------------|-------------------|
| 1) GEO-Chem Lab | 4) TCR |
| 2) Metallurgical Service | 5) Metal Analysis |
| 3) Metallurgical Lab | 6) Elca Lab |



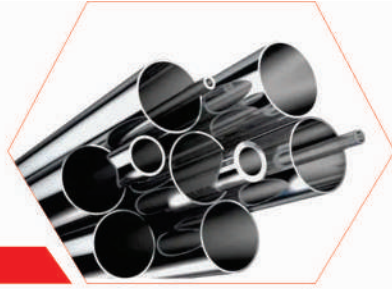
BRAND WE DEALS IN



Website : www.jainamferroalloys.com



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Dimensions of Normal Pipe ANSI B 36-10

Pipe dimension in accordance to

Nominal Thickness and Weights

Number of Schedule

Size Pipe			Number of Schedule												Double Extra-Strong												D.Tub Size P. nominal in inch					
Nominal in inch	Out Side in mm	5S		10S		10		20		30		40		60		80		100		120		160		Standard		Extra-Strong		Double Extra-Strong				
		mm	kg / m	mm	kg / m	mm	kg / m	mm	kg / m	mm	kg / m	mm	kg / m	mm	kg / m	mm	kg / m	mm	kg / m	mm	kg / m	mm	kg / m	mm	kg / m	mm	kg / m	mm	kg / m			
1/8"	10.3	-	-	1.28	0.28	-	-	1.60	0.345	-	-	1.78	0.36	-	-	2.41	0.46	-	-	-	-	-	-	1.73	0.36	2.41	0.46	-	-	1/8"		
1/4"	13.7	-	-	1.65	0.49	-	-	2.00	0.580	-	-	2.24	0.63	-	-	3.02	0.80	-	-	-	-	-	-	2.24	0.63	3.02	0.80	-	-	1/4"		
3/8"	17.1	-	-	1.65	0.63	-	-	2.00	0.750	-	-	2.31	0.85	-	-	3.20	1.10	-	-	-	-	-	-	2.31	0.85	3.20	1.10	-	-	3/8"		
1/2	21.3	1.65	0.80	2.11	1.00	-	-	2.0	0.957	-	-	2.77	1.26	-	-	3.73	1.62	-	-	-	-	-	-	2.77	1.26	3.73	1.62	7.47	2.54	1/2		
3/4	26.7	1.65	1.03	2.11	1.28	-	-	2.5	1.500	-	-	2.87	1.68	-	-	3.91	2.19	-	-	-	-	-	-	2.87	1.68	3.91	2.19	7.82	3.63	3/4		
1	33.4	1.65	1.29	2.77	2.08	-	-	2.5	1.916	-	-	3.68	2.50	-	-	4.55	3.23	-	-	-	-	-	-	3.68	2.50	4.55	3.23	9.09	5.45	1		
1 1/4	42.2	1.65	1.65	2.77	2.69	-	-	3.00	2.910	-	-	3.56	3.33	-	-	4.85	4.46	-	-	-	-	-	-	3.56	3.38	4.48	4.46	9.70	7.75	1 1/4		
1 1/2	48.8	1.65	1.90	2.77	3.12	-	-	3.0	3.370	-	-	3.08	4.05	-	-	5.08	5.40	-	-	-	-	-	-	3.68	4.05	5.08	5.40	10.16	9.54	1 1/2		
2	60.3	1.65	2.38	2.77	3.94	-	-	3.0	4.263	-	-	3.91	5.43	-	-	5.54	7.47	-	-	-	-	-	-	8.74	11.10	3.91	5.43	5.54	7.47	11.07	13.44	2
2 1/2	73.0	2.11	3.70	3.05	5.26	-	-	4.00	6.846	-	-	5.16	8.62	-	-	7.01	11.40	-	-	-	-	-	-	5.16	8.62	7.01	11.40	14.02	20.39	2 1/2		
3	88.9	2.11	4.50	3.05	6.45	-	-	4.00	8.423	-	-	5.49	11.28	-	-	7.62	15.25	-	-	-	-	-	-	5.49	11.23	7.62	15.25	15.24	27.65	3		
3 1/2	101.6	2.11	5.20	3.05	7.40	-	-	4.5	10.838	-	-	5.74	13.59	-	-	8.08	18.62	-	-	-	-	-	-	5.74	13.56	8.08	18.62	-	-	3 1/2		
4	114.3	2.11	5.61	3.05	8.34	-	-	4.5	12.255	-	-	6.02	16.06	-	-	8.56	22.29	-	-	-	-	-	-	6.02	16.06	8.56	22.29	17.12	40.99	4		
5	141.3	2.77	9.45	3.40	11.56	-	-	5.00	16.900	-	-	6.55	21.76	-	-	9.52	30.92	-	-	-	-	-	-	6.55	21.76	9.52	30.92	19.05	57.37	5		
6	168.3	2.77	11.31	3.40	13.82	-	-	6.35	24.150	-	-	7.11	28.23	-	-	10.97	42.52	-	-	-	-	-	-	7.11	28.23	10.97	42.52	21.95	79.11	6		
8	219.1	2.77	14.78	3.76	19.94	-	-	6.35	33.28	7.14	36.76	8.18	42.49	10.31	53.07	12.70	64.57	15.09	75.79	18.26	90.32	23.01	111.18	8.18	42.49	12.70	64.57	22.22	107.78	8		
10	276.0	3.40	22.62	4.19	27.83	-	-	6.35	41.73	7.80	50.96	9.27	60.24	12.70	81.46	15.09	95.84	18.26	114.59	21.44	132.75	28.58	172.11	9.27	60.24	12.70	81.46	25.40	154.97	10		
12	323.9	3.96	33.00	4.57	36.00	-	-	6.35	49.68	8.38	65.14	10.31	79.71	14.28	108.97	17.48	131.81	21.44	159.67	25.40	186.75	33.32	238.60	9.52	73.76	12.70	97.86	25.40	186.75	12		
14	355.6	3.96	34.23	4.78	41.18	6.35	54.63	7.92	67.98	9.52	81.21	11.13	94.31	15.09	126.51	19.05	157.94	23.83	194.64	27.79	224.36	35.71	281.49	9.52	81.21	12.70	107.28	-	-	14		
16	406.4	4.19	41.60	4.78	47.33	6.35	62.58	7.92	77.92	9.52	93.13	12.70	123.18	16.66	160.04	21.44	203.26	26.19	245.34	30.96	286.33	40.49	364.94	9.52	93.13	12.70	123.18	-	-	16		
18	457.2	4.19	46.83	4.78	53.18	6.35	70.53	7.92	87.85	11.13	122.12	14.21	155.90	19.05	205.62	23.83	254.24	29.36	309.55	34.92	363.33	39.67	459.18	9.52	105.05	12.70	139.07	-	-	18		
20	508.0	4.78	59.22	5.54	68.50	6.35	78.47	9.52	116.97	12.70	154.97	15.09	183.14	20.92	247.79	26.19	310.91	32.54	381.20	38.10	441.06	44.45	564.24	9.52	116.97	12.70	154.97	-	-	20		
22	558.8	4.78	63.75	5.54	73.81	6.35	86.42	9.52	128.89	12.70	170.86	-	-	22.22	293.80	28.58	373.27	34.92	450.75	41.28	526.24	47.62	671.28	9.52	128.89	12.70	170.86	-	-	22		
24	609.6	5.54	82.60	6.35	94.37	6.35	94.37	9.52	140.81	14.27	209.54	17.48	254.74	24.61	354.62	30.96	441.30	38.89	546.84	46.02	639.18	52.37	806.74	9.52	140.81	12.70	202.75	-	-	24		
26	660.4	-	-	-	-	7.92	127.58	12.70	202.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.52	152.73	12.70	202.65	-	-	26		
28	711.2	-	-	-	-	7.92	137.52	12.70	218.54	15.88	271.94	-	-	-	-	-	-	-	-	-	-	-	-	9.52	152.73	12.70	218.54	-	-	28		
30	762.0	-	-	-	-	7.92	147.45	12.70	234.44	15.88	219.81	-	-	-	-	-	-	-	-	-	-	-	-	9.52	164.65	12.70	234.44	-	-	30		
32	812.8	-	-	-	-	7.92	157.39	12.70	250.33	15.88	311.67	17.48	342.17	-	-	-	-	-	-	-	-	-	-	9.52	176.57	12.70	234.44	-	-	32		
34	863.6	-	-	-	-	7.92	157.32	12.70	266.22	15.88	331.54	17.48	364.01	-	-	-	-	-	-	-	-	-	-	9.52	188.50	12.70	250.83	-	-	34		
36	914.4	-	-	-	-	7.92	177.26	12.70	282.12	15.88	351.41	19.05	420.21	-	-	-	-	-	-	-	-	-	-	9.52	212.34	12.70	282.12	-	-	36		

Website : www.jainamferroalloys.com



FLANGES

Size : 1/2" NB TO 72" NB

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

Standard

ANSI Flanges 150#, 300#, 600#, 900#, 1500# & 2500#.

ANWA : Class 2B, 2D, 4E, 5E, 6E

DIN : PN6, PN100PN16, PN25, PN40

JIS : 5K, 10K

BS : Table D, E, F.

Duplex & Super Duplex : UNS S31803, UNS S32750, UNS S32760

Hastelloy Alloy : ASTM B564 Hastelloy B2, C276, C22

Incolloy Alloys : ASTM B564 Alloy 20, Alloy A286
Alloy 8001-1/800FIT, Alloy 825,

Inconel Alloys : ASTM B554 Alloy 600, Alloy 601, Alloy 525,
Alloy 718, Alloy 725,

Monel Alloys : ASTM B554 Monel 400, Monel K500

Stainless Steel : ASTM A182, F304, 304L, 304H, 316,
316017, 317L, 321, 310, 347, 904L

Carbon Steel : ASTM A105, A694, A181, F42, A350, LF2

Alloy Steel : ASTM A182 F1,F5,F9,F11,F22,F91

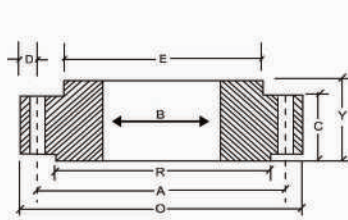
TYPE

- | | | | | |
|------------------------|-------------------|--------------------|---------------------|-------------------|
| • PLATE BLANK FLANGE | • SCREWED FLANGE | • LAP JOINT FLANGE | • SOCKETWELD FLANGE | • LARGE FLANGE |
| • WELDNECK FLANGE | • BLIND FLANGE | • ORIFACE FLANGE | • RTJ FLANGE | • DECK FLANGE |
| • LONG WELDNECK FLANGE | • THREADED FLANGE | • SILIPON FLANGE | • SPECTACLE FLANGE | • REDUCING FLANGE |

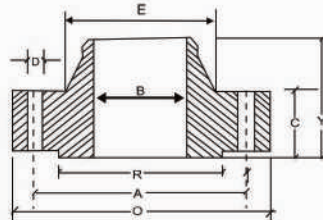
• EN 10204 3.1/3.2
• NACE MR0175
Mill Test Certificate



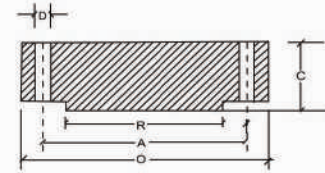
DIMENSIONS OF FORGED FLANGES ANSI 16.5



SLIP-ON FLANGE



WELDING NECK FLANGE



BLIND FLANGE

ASA 150 CLASS

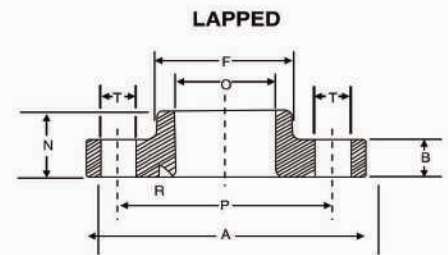
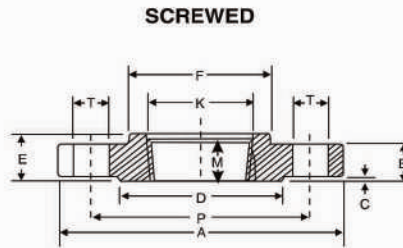
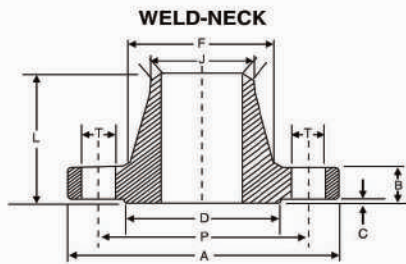
Nominal Pipe Size	Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Length Through Hub			Dia of Bore		Dia of R/F	Depth of Socket	Pipe Dia
							S/O & S/W	W/N	L/J	S/O & S/W	L/J			
(MM)	(INCH.)	O	A	D	C	E	Y	Y	Y	B	B	R	F	X
15	1/2	88.9	60.3	15.9	4	11.1	15.9	47.6	15.9	22.3	22.9	34.9	9.5	21.33
20	3/4	98.4	69.8	15.9	4	12.7	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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 Length through Hub(Y).

ASA 300 CLASS

Nominal Pipe Size	Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Length Through Hub			Dia of Bore		Dia of R/F	Depth of Socket	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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 Length through Hub(Y).



DIMENSIONS 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	14.5	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	16.0	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	17.5	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	74.7	19.0	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	20.5	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	118.0	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	431.8	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

DIMENSIONS OF CLASS 900 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	-	-	356.6	-	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(C)" and "Length through Hub(Y)".



JAINAM FERRO ALLOYS

Mob. : +91 98209 55550 / +91 88793 38852

Email : sales@jainamferroalloys.com



TABLE - D

For Working Stream Pressure above 250 lbs and upto 350 lbs per sq. inch

Nominal Pipe Size (in m)	Dia. of Flang	Dia. of Bolt Circle (PCD)	No. of Bolt	Dia. of Bolt	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	13	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

TABLE - E

For Working Stream Pressure above 350 lbs and upto 450 lbs per sq. inch

Nominal Pipe Size (in mm)	Dia. of Flang	Dia. of Bolt Circle(PCD)	No. of Bolt	Dia. of Bolt	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	6	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

TABLE - F

For Working Stream Pressure above 250 lbs and upto 350 lbs per sq. inch

Nominal Pipe Size (in mm)	Dia. of Flang	Dia. of Bolt Circle (PCD)	No. of Bolt	Dia. of Bolt	Thickness of Flange
mm	mm	mm	mm	mm	mm
15	95	67	4	13	10
20	102	73	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	16	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

TABLE - H

For Working Stream Pressure above 350 lbs and upto 450 lbs per sq. inch

Nominal Pipe Size (in mm)	Dia. of Flang	Dia. of Bolt Circle(PCD)	No. of Bolt	Dia. of Bolt	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



Power House



Steel Plant



Offshore Platform



Chemical Industries



Petrochemical Industries

FORMULA OF CALCULATING WEIGHT

- 1) **WEIGHT OF S. S. 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 S. S. 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 S. S. 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 S. S. 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 S. S. FLAT BAR**
 $\text{Width (mm) x Thick (mm) x 0.00798 = Wt. Per Mtr.}$
 $\text{Width (mm) x Thick (mm) x 0.00243 = Wt. Per Feet}$
- 6) **WEIGHT OF S. S. SHEETS & PLATES**
 $\text{Length (Mtrs) x Width (Mtrs) x Thick (mm) x 8 = Wt. Per PC}$
 $\text{Length (Fit) x Width (Fit) x Thick (mm) x 3/4 = Wt. Per PC}$
- 7) **WEIGHT OF S. S. CIRCLE**
 $\text{DIA (mm) x DIA (mm) x Thick (mm) \div 160 = Gms. PC}$
 $\text{DIA (mm) x DIA (mm) x Thick (mm) x 0.0000063 = Kg. Per PC}$
- 8) **WEIGHT OF BRASS PIPE / COPPER PIPE**
 $\text{O.D. (mm) - Thick (mm) x 0.0260 = Wt. Per Mtr.}$
- 9) **WEIGHT OF LEAD PIPE**
 $\text{O. D. (mm) - Wt. (mm) x Wt. (mm) x 0.0345 = Wt. Per Mtr.}$
- 10) **WEIGHT OF ALUMINIUM PIPE**
 $\text{O. D. (mm) - Thick (mm) x Thick (mm) x 0.0083 = Wt. Per Mtr.}$
- 11) **WEIGHT OF ALUMINIUM SHEET**
 $\text{Length (Mtr.) x Width (Mtr.) x Thick (mm) x 2.69 = Wt. Per PC}$
- 12) **WEIGHT OF CONVERSION OF MTR. TO FEET**
 $\text{Wt. of Mtr. \div 3.2808 = Wt. Per Feet.}$



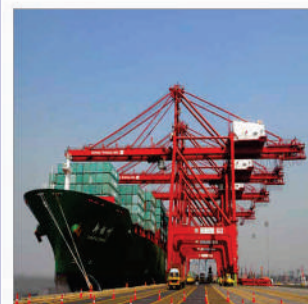
Flange CNC Machine



Fertilizer Plants



Refinery Petrochemical Plant



Port Trusts



Navy Submarine



23, Bhanushali bldg, 1st floor, Room no. 4, 3rd Panjarapole Lane,
Near Gulalwadi Circle, Mumbai:400004
Email : sales@jainamferroalloys.com
Website :www.jainamferroalloys.com