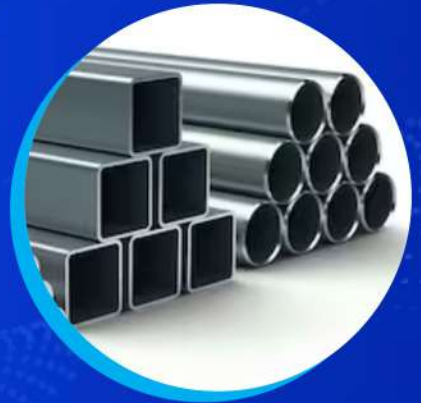




INNOVATIVE
CORPORATION

STOCKIST & SUPPLIERS OF :

ALL TYPE INDUSTRIAL RAW MATERIALS IN
FERROUS & NON FERROUS METALS



**QUALITY, SERVICE, AND SATISFACTION ARE
EVERYTHING TO US!**

 +91 88905 92917

 innovativecorporation265@gmail.com



INNOVATIVE
CORPORATION

RESPECTED CUSTOMER

Sub.: Registration of Our Firm in your approved list of vendor for
Suppliers of all types of Ferrous & Non-Ferrous Metals.

We Interdicted this moments to present our selves as one of the leading and largest importers, Stockiest and Suppliers of all types of Ferrous and Non-Ferrous Metals, We are also Manufacturers of Stainless Steel Pipes in all Grades Shapes and Sizes.

We have a technical know-how in this trade and are well versed in project and maintenance suppliers to various organizations in CHEMICALS, FERTILISERS, PETROCHEMICALS, NUCLEAR POWER, THERMAL POWDER, CEMENT, PAPER, REFINERS, BIO GAS PROJECT, etc. Catering towards their requirements, on repeat order basis, in their various manufacturing cum production programmers, with our display of quality products on convenient terms.

Any Registration formalities to be fulfilled, Please feel free to correspond, it not only be our pleasure but due respect in doing so, awaiting the opportunity of serving your prestigious firm endmost to come.

Thanking You And Assuring Of Our Time Bound Services, At All Times.

For, INNOVATIVE CORPORATION, Ahmedabad



INNOVATIVE
CORPORATION

Company Name

: INNOVATIVE CORPORATION

Regd Office

: Shed 02, Ground Floor,
Shree Rajeshwar Steel
Complex-b,ajod Dairy Marg, Rakhial,
Ahmedabad, Gujarat, 380023

Email

: innovativecorporation265@gmail.com

Activities

: S.S Sheet, Pipes, Bars, Plate, Circles, Fitting

GSTIN

: 24EGQPA2379C1ZJ

Contact Person

: Kishan Patel : +91 94276 42457





INNOVATIVE CORPORATION



PIPE & TUBES

STAINLESS STEEL: ASTM A312 TP 304/304L/304H/316/316L/ 317/317L/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/

LOW TEMPERATURE, CARBON STEEL: A333 Gr. 3/ Gr. 6 etc.

ALLOY STEEL: ASTM A335 GR. P1/P5/P9/P11/P22/ P91 etc.

NICKEL ALLOYS: Monel, Nickel, Inconel, Hastalloy, Titanium, Tantalum Bismuth, Aluminium, High Speed Steel,

NON FERROUS METAL: Copper, Brass, Bronze, Zinc, Lead etc.

TYPES: Round, Square, Rectangular.

SIZE: Up to 24"NB, (Seamless & Welded)

WALL THICKNESS: Sch 5S to Sch. XXS



BUTT WELD FITTING

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/WP11/WP22/WP91 etc.

OTHERS: Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Tantalum, Bismuth, Aluminum, High Speed Steel, Zinc, Lead, 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.



FLANGES

STAINLESS STEEL: ASTM A182 F304/3040 304H/316/316L/ 17/3170 321 316347/904L etc

CARBON STEEL: ASTM A105/A694F42/46/5256:60165/70/ A350/ LF3/A350 LF2 etc.

ALLOY STEEL: ASTM A182 F1/FS/F9F11/ F22/F91 etc

OTHERS: Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Tantalum, Bismuth, Aluminum, High Speed Steel, Zinc, Lead, etc.

TYPES: Weldneck, Slipon, Blind, Socket Weld, Lap Joint Spectacles, Ring Joint, Orifcae, Long Weldneck, Deck Flange, RTJ, Flange

SIZE: 1/2 NB TO24 NB.

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



INSTRUMENTATION / FERRULE FITTING

STAINLESS STEEL: ASTM A182 F304 304 304 318/31/312/31 TL 321/346/347/904L etc

CARBON STEEL: ASTM A105 AE94 F4246/52/56/ 60/65/701A350 LF3/A350 LF2

ALLOY STEEL: ASTM A1EZEUFS F1 F1 F221F91 etc.

DUPLEX & SUPER DUPLEX STEEL: UNS S31803, UNS S32750, UNS S32760, 964L, Alloy 20

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, Triblow, ATW Weld Ring, Tube Socket Weld, Tube Butt Weld, Tube Butt Weld To Tube Socket Weld, Port Connector Etc.



SHEETS, PLATES & COILS

MATERIAL GRADE: Stainless Steel, Nickel Alloys, Carbon Steel, Alloy Steel. Other Ferrous & Non-Ferrous Metals

TYPES: Sheet, Plates, Strips, Round Bars, Wires, Channel, etc.



ANGLE, CHANNEL, FLATE

STAINLESS STEEL: 304, 304L, 304H, 316, 316L, 316H, 316Ti, 321, 309, 310, 347, 409, 410, 420, 430, 904L etc.

MILD STEEL: IS:2062E250/E300/E350/E410/E450

Make: JINDAL/SELL/VIJAG

THICKNESS: 3 mm to 16 mm

SIZE: As per customer requirement. TYPE: Equal & unequal.



INNOVATIVE CORPORATION



ROUNDED, HEXAGON, SQUARE, WIRE BAR

STAINLESS STEEL: ASTM A312 TP 304, 304L, 304H, 316, 316L, 316H, 316Ti, 321, 309, 310, 347, 409, 410, 420, 430, 904L etc.

MILD STEEL: Bright bar, Alloys Steel Bars, En Series, etc.

TYPES: Round, Square, Hexagon, Wire, Billet, Wire mesh, Ingot, Block, Forging, etc.

SIZE: 0.5 mm to 300 mm

FINISH: Bright, Black & Polished

NICKEL ALLOYS: Monel, Inconel, Hast Alloy, Nickel, Cupro Nickel Titanium,

DUPLEX: (2205, 2507) & 17-4PH

MATERIAL GRADE: Stainless Steel, Carbon Steel, Duplex Steel, Super Duplex Steel, Alloy Steel, Nickel Alloy, Titanium Alloy, Aluminium Alloy & Cupro-Nickel Alloy.



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, 10.98 129/R S. T' Condition Carbon Steel: Bare Condition, Galvanized, Phosphatized, Cadmium Plated, Hot Deep Galvanized, Bloodied, 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.



CIRCLE

STAINLESS STEEL: 304, 304L, 304H, 316, 316L, 316H, 316Ti, 321, 309, 310, 347, 409, 410, 420, 430, 904L etc.

FORMS: Forging & Plate Cut

THICKNESS: 0.3 mm to 125 mm

SIZE: As per Customer requirement.

NICKEL ALLOYS: Monel, Inconel, Hast Alloy, Nickel, Cupro Nickel, Titanium, Duplex, Super Duplex etc.



COPPER/ BRASS/ ALUMINIUM

NON FERROUS: Copper Alloys, Aluminum Alloys, Brass, PB, Gunmetal, Bronze Metal.

TYPE: Pipe, Sheet, Coil, Round Bar, Square Bar, Hex Bar, Wire, Pipe Fitting & All type of Industrial Raw Materials.

THICKNESS: As per customer requirement.

SIZE: As per customer requirement.

OUR OTHER PRODUCT RANGE



MS PIPES



MS FITTINGS



MS FLANGES



SHEET, PLATE, COILS



BARs



WIRES



CHEMICAL COMPOSITION OF STAINLESS STEEL

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.

GRADE AISI	Chemical composition -per cent									nearest equipment specification	
	C MAX	MN MAX	P MAX	S MAX	SI MAX	CR	NI	MO	OTHER ELEMENT	I.S	EN'
201	0.15	5.5/7.5	0.06	0.03	1	16.0/ 18.0	3.5/ 5.5	-	-	-	-
202	0.15	7.5/ 10	0.06	0.03	1	17.0/ 19.0	4.0/6.0	-	-	-	-
301	0.15	2.0max	0.045	0.040	1.0	16.0/ 18.0	6.0/ 8.0	-	-	10Cr17Ni7	-
302	0.15	2.0	0.045	0.030	1.0	17.0/ 19.0	8.0/10.0	-	-	07Cr. 18Ni9	En-58A
302HQ	0.03	2.0	0.045	0.03	1	17.0/ 19.0	9.0/10.0	-	CU:3-4.0	-	-
303	0.15	2.0	0.045	0.15min	1.0	17.0/ 19.0	8.0/10.0	-	E-4- 1% max	15Cr18Ni9	EN-58M
303EHS	0.15	2.0	0.02	0.3-0.33	1	17.0/ 19.0	8.0/10.0	-	CU:1% max	-	-
304	0.08	2.0	0.045	0.030	1.0	18.0/20.0	8.0/10.0	-	-	04Cr18Ni10	En-58E
304L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	8.0/12.0	-	-	02Cr18Ni11	-
304H.C.	0.05	2.0	0.040	0.03	1	18.0/20.0	8.5/ 9.5	-	CU:2-2.50	-	-
308	0.08	2.0	0.045	0.030	1.0	18.0/21.0	10.0/12.0	-	-	-	-
308LER	0.02	1.5/2.0	0.025	0.02	0.5	19.0/21.0	9.5/11.0	-	-	-	-
309	0.20	2.0 max	0.045	0.030	1.0	22.0/24.0	12.5/ 15.0	-	-	20Cr24Ni12	-
309LER	0.03	1.5/2.5	0.02	0.015	0.5	23.0/25.0	12.0/ 14.0	-	-	-	-
309S	0.08	2.0	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	-	-
310	0.25	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	10Cr25Ni12	-
310S	0.08	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	-	-
314	0.25	2.0	0.045	0.030	1.5to3	25.0/26.0	19.0/22.0	-	-	-	-
316	0.08	2.0	0.045	0.030	1.0	16.0/ 18.0	10.0/14.0	2.0/3.0	-	04Cr17Ni12Mo2	En 58H
316L	0.030	2.0	0.045	0.030	1.0	16.0/ 18.0	10.0/ 14.0	2.0/3.0	-	03Cr17Ni12Mo2	-
316LER	0.02	1.5/2.0	0.02	0.02	0.5	18.0/20.0	12.0/ 14.0	2.0/2.75	-	-	-
316Ti	0.080	2.0	0.045	0.030	1.0	16.0/ 18.0	10.0/14.0	2.0/ 3.0	Ti5xCmin	-	-
317	0.08	2.0	0.045	0.030	1.0	18.0/20.0	11.0/ 15.0	3.0/4.0	-	-	-
317L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	11.0/ 15.0	3.0/4.0	N:0.10/0.22	-	-
317N	0.08	2.0	0.045	0.03	1	18.0/20.0	11.0/ 15.0	3.0/4.0	N:0.10/0.22	-	-
321	0.08	2.0	0.045	0.030	1.0	17.0/ 19.0	9.0/ 12.0	-	Ti5Cmin	04Cr18Ni10Ti20	En-58C
347	0.08	2.0	0.045	0.030	1.0	17.0/ 19.0	9.0/ 12.0	-	Nb/Ta1OxCmin	04Cr18Ni10Nb-40	En-58G
904L	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

GRADE AISI	Chemical composition -per cent									nearest equipment specification	
	C MAX	MN MAX	P MAX	S MAX	SI MAX	CR	NI	MO	OTHER ELEMENT	I.S	EN'
410	0.15	1.00	0.04	0.03	1.0	11.5/13.5	0.60	-	-	12Cr13	En-56A
416	0.15	1.25	0.06	0.15min	1.0	12.0/14.0	1.25/2.50	-	-	-	-
420	0.15mi	1.0	0.04	0.03	1.0	12.0/ 14.0	0.60	-	-	-	En-
430	0.12	1.0	0.04	0.03	1.0	16.0/ 18.0	0.60	-	-	07Cr17	En-60
430L	0.03	1.0	0.04	0.03	1.0	16.0/ 18.0	0.60	-	-	-	-
430F	0.12	1.25	0.06	0.15min	1.0	16.0/18.0	0.60	-	-	-	-
431	0.2	1.0	0.04	0.03	1.0	15.0/ 17.0	1.25/2.5	-	-	-	En-57
17.4PH	0.07	1.0	0.04	0.03	1.0	15.0/ 17.0	3.0/5.0	-	NB:0.15/0.45	-	-

DUPLEX

1 1905	0.03	1.2/1.8	0.04	0.03	1.2/2	18.0/19.0	4.3/5.2	2.5/3	N:0.50/0.10	-	-
12205	0.03	2	0.03	0.02	1.0	21.0/23.0	4.5/6.5	2.5/3.5	N:0.8/0.20	-	-
2506	0.08	1.0	0.04	0.03	0.75	26.0/28.0	4/ 5	1.3/2	-	-	-



INNOVATIVE
CORPORATION

C.S/A.S/S.S PIPE AND TUBES SCHEDULE DIMENSIONS, WALL THICKNESS, WT./MTR (KG)

SIZE OF PIPES & TUBES		NOMINAL THICKNESS AND WEIGHTS															
		NUMBER OF SCHEDULE															
		5S		10S		10		20		40		80		120		160	
Nominal in/inch	Out side in/mm	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m
18	10.3			128	0.28			160	0.345	178	0.36	241	0.46			173	0.36
14"	13.7			165	0.49			200	0.580	224	0.63	302	0.80			224	0.63
3/8"	17.1			165	0.63			200	0.750	231	0.85	320	1.10			231	0.85
1/2	21.3	165	0.80	211	1.00			200	0.957	277	1.26	373	1.62	478	1.95	277	1.26
3/4	26.7	165	1.03	211	1.28			250	1.500	287	1.68	391	2.19	556	2.89	287	1.68
1 1/4	33.4	165	1.29	277	2.08			250	1.915	338	2.50	455	3.23	635	4.23	338	2.50
1 1/2	42.2	165	1.65	277	2.69			300	2.910	356	3.33	485	4.46	635	5.60	356	3.33
1 3/4	48.8	165	1.90	277	3.12			300	3.370	308	4.05	508	5.40	714	7.23	368	4.05
2	60.3	165	2.38	277	3.94			300	4.263	391	5.43	554	7.47	874	11.0	391	5.43
2 1/2	73.0	211	3.70	305	5.26			400	6.846	516	8.62	701	11.40	952	14.90	516	8.62
3	88.9	211	4.50	305	6.45			400	8.423	549	11.28	762	15.25	1113	21.30	549	11.28
3 1/2	101.6	211	5.20	305	7.40			450	10.838	574	13.56	808	18.62			574	13.56
4	114.3	211	5.61	305	8.34			450	12.255	602	16.06	856	22.29	1113	28.25	602	16.06
4 1/2	141.3	277	9.45	340	11.56			500	16.900	655	21.76	952	30.92	1270	40.24	655	21.76
5	168.3	277	11.31	340	13.82			635	24.150	711	28.23	1097	42.52	1427	54.20	711	28.23
5 1/2	181.1	277	14.78	376	19.94			635	33.328	816	42.49	1270	64.57	1526	90.32	816	42.49
6	219.1	277	17.83	419	27.83			635	41.73	927	60.24	1509	95.84	2144	132.85	927	60.24
6 1/2	273.1	340	22.62	419	36.00			635	49.68	1031	79.71	1748	131.81	2540	186.75	952	73.76
7	323.9	396	33.00	457	41.18			792	67.98	1113	94.31	1905	167.94	2779	224.36	952	81.21
8	355.6	396	34.23	478	47.33			792	77.92	1270	123.18	2144	203.26	3096	286.33	952	93.13
9	408.4	419	41.60	478	53.18			792	87.85	1421	155.90	2383	254.24	3492	363.33	952	105.05
10	457.2	419	46.63	478	58.50			952	116.97	1509	183.14	2619	310.91	3810	441.06	952	116.97
12	508.0	478	59.22	554	68.50			952	128.89			2858	373.27	4128	526.24	952	128.89
14	558.8	478	63.75	554	73.81			952	140.81	1748	254.74	3096	441.30	4602	639.18	952	140.81
16	609.6	554	82.60	635	94.37			1270	202.65								
18	660.4							1270	218.54								
20	711.2							1270	234.44								
22	762.0							1270	250.33								
24	812.8							1270	266.22								
26	863.6							1270	282.12								
28	914.4							1270									
30																	
32																	
34																	
36																	



150# FLANGES

Nominal pipe size	outside dia flanges	minimum thickness of flanges	OVERALL LENGTH			PCD bolt circle	No. and size of Holes		O.D OF Raised Face
			welding neck	slip on & socket welding	Lapped joint				
	0	A	y			B	No.	E	R
1/2	89	11.1	47.6	5.9	15.9	60.5	4	15.9	35
3/4	98	12.7	52.4	15.9	15.9	70.0	4	15.9	43
1	108	14.3	55.6	17.5	17.5	79.5	4	15.9	51
1-1/4	117	15.9	57.2	20.6	20.6	89.0	4	15.9	64
1-1/2	127	17.5	61.9	22.2	22.2	98.5	4	15.9	73
2	152	19.1	63.5	25.4	25.4	120.5	4	19	92
2-1/2	178	22.3	69.8	28.6	28.6	139.5	4	19	105
3	190	23.8	69.8	30.2	30.2	152.5	4	19	127
3-1/2	216	23.8	71.4	31.8	31.8	178.0	8	19	140
4	229	23.8	76.2	33.3	33.3	190.5	8	19	157
5	254	23.8	88.9	36.5	36.5	216.0	8	22.2	186
6	279	25.4	88.9	39.7	39.7	241.5	8	22.2	216
8	343	28.6	101.6	44.4	44.4	298.5	8	22.2	270
10	406	30.2	101.6	49.2	49.2	362.0	12	25.4	324
12	483	31.8	114.3	55.6	55.6	432.0	12	25.4	381
14	533	34.9	127.0	57.2	79.4	476.0	12	28.6	413
16	597	36.5	127.0	63.5	87.3	539.5	16	28.6	470
18	635	39.7	139.7	68.3	96.8	578.0	16	31.7	533
20	698	42.9	144.5	73.0	103.2	635.0	20	31.7	584
24	813	47.6	152.4	82.6	111.1	749.5	20	34.9	692

300# FLANGES

Nominal pipe size	outside dia flanges	minimum thickness of flanges	OVERALL LENGTH			PCD bolt circle	No. and size of Holes		O.D OF Raised Face
			welding neck	slip on & socket welding	Lapped joint				
	0	A	y			B	No.	E	R
1/2	95	14.3	52.4	22.2	22.2	66.5	4	15	35
3/4	117	15.9	57.2	25.4	25.4	82.5	4	19	43
1	124	17.5	61.9	27.0	27.0	89.0	4	19	51
1-1/4	133	19.0	65.1	27.0	27.0	98.5	4	19	64
1-1/2	156	20.7	68.3	30.2	30.2	114.5	4	22	73
2	165	22.3	69.8	33.3	33.3	127.0	8	19	92
2-1/2	190	25.4	76.2	38.1	38.1	149.0	8	22	105
3	210	28.6	79.4	42.9	42.9	168.0	8	22	127
3-1/2	229	30.2	81.0	44.5	44.5	184.0	8	22	140
4	254	31.8	85.7	47.6	47.6	200.0	8	22	157
5	279	35.0	98.4	50.8	50.8	235.0	8	22	186
6	317.5	36.6	98.4	52.4	52.4	270.0	12	22	216
8	381	41.3	111.1	61.9	61.9	330.0	12	25	270
10	444	47.7	117.5	66.7	95.3	387.5	16	29	324
12	521	50.8	130.2	73.0	101.6	451.0	16	32	381
14	584	54.0	142.9	76.2	111.1	514.5	20	32	413
16	648	57.2	146.0	82.6	120.7	571.5	20	35	470
18	711	60.4	158.8	88.9	130.2	628.5	24	35	533
20	775	63.5	161.9	95.2	139.7	686.0	24	35	584
24	914	69.9	168.3	106.4	152.4	843.0	24	41	692

600# FLANGES

Nominal pipe size	outside dia flanges	minimum thickness of flanges	OVERALL LENGTH			PCD bolt circle	No. and size of Holes		O.D OF Raised Face
			welding neck	slip on & socket welding	Lapped joint				
1/2	95	14.3	52.4	22.2	22.2	66.5	4	15.9	35
3/4	117	15.9	57.2	25.4	25.4	82.5	4	19	43
1	124	17.5	61.9	27.0	27.0	89.0	4	19	51
1-1/4	133	20.7	66.7	28.6	28.6	98.5	4	19	64
1-1/2	156	22.3	69.8	31.8	31.8	114.5	4	22.2	73
2	165	25.4	73.0	36.5	36.5	127.0	8	19	92
2-1/2	190	28.6	79.4	41.3	41.3	149.0	8	22.2	105
3	210	31.8	82.6	46.0	46.0	168.0	8	22.2	127
4	273	38.1	101.6	54.0	54.0	216.0	8	25.4	157
5	330	44.5	114.3	60.3	60.3	266.5	8	29	186
6	356	47.7	117.5	66.7	66.7	292.0	12	29	216
8	419	55.6	133.4	76.2	76.2	349.0	12	32	270
10	508	63.5	152.4	85.7	111.1	432.0	16	35	324
12	559	66.7	155.6	92.1	117.5	489.0	20	35	381
14	603	69.9	165.1	93.7	127.0	527.0	20	38	413
16	686	76.2	117.8	106.4	139.7	603.0	20	41	470
18	743	82.6	184.2	117.6	152.4	654.0	20	45	533
20	813	88.9	190.5	127.0	165.1	724.0	24	45	584
24	940	101.6	203.2	139.7	184.2	838.0	24	51	692

1500# FLANGES

Nominal pipe size	outside dia flanges	minimum thickness of flanges	OVERALL LENGTH			PCD bolt circle	No. and size of Holes		O.D OF Raised Face
			welding neck	slip on & socket welding	Lapped joint				
1/2	121	22.3	60.3	31.8	31.8	82.5	4	22	35
3/4	130	25.4	69.8	34.9	34.9	89.0	4	22	43
1	149	28.6	73.0	41.3	41.3	101.5	4	25	51
1-1/4	159	28.6	73.0	41.3	41.3	111.0	4	25	64
1-1/2	178	31.8	82.5	44.4	44.4	124.0	4	29	73
2	216	38.1	101.6	57.2	57.2	165.0	8	25	92
2-1/2	244	41.3	104.8	63.5	63.5	190.5	8	29	105
3	267	47.7	117.5	73.0	73.0	203.0	8	32	127
4	311	54.0	123.8	90.5	90.5	241.5	8	35	157
5	375	73.1	155.5	104.8	104.8	292.0	8	41	186
6	394	82.6	171.4	119.1	119.1	317.5	12	38	216
8	483	92.1	212.7	142.9	142.9	393.5	12	45	270
10	584	108.0	254.0	158.8	177.8	482.5	12	51	324
12	673	123.9	282.9	181.0	219.1	571.5	16	54	381
14	749	133.4	298.4	-	241.3	635.0	16	60	413
16	826	146.1	311.2	-	260.4	705.0	16	51	470
18	914	162.0	327.0	-	276.2	774.5	16	66	533
20	984	177.8	355.4	-	292.1	832.0	16	80	583
24	1168	203.2	406.4	-	330.2	990.5	16	92	692



DIMENSION OF PIP FLANGES AS PER TABLES

**Table-D: For Working Steam Pressure
Upto 50 lbs Per Sq. Inch**

nominal pipe size	O.D of pipe	Dia of flange	Dia of Bolt Circle	No.of bolt	Dia of bolt	thickness
1/2"	21.3	95.3	66.7	4	12.7	4.8
3/4"	26.7	101.6	73.0	4	12.7	4.8
1"	33.4	114.3	82.6	4	12.7	4.8
1 1/4"	42.2	120.7	87.6	4	12.7	6.4
1 1/2"	48.3	133.4	98.4	4	12.7	6.4
2"	60.3	152.4	114.3	4	15.9	7.9
2 1/2"	73.0	165.1	127.0	4	15.9	7.9
3"	88.9	184.2	146.1	4	15.9	9.5
3 1/2"	101.6	203.2	165.1	4	15.9	9.5
4"	114.3	215.9	177.8	4	15.9	9.5
5"	141.3	254.0	209.6	8	15.9	12.7
6"	168.3	279.4	228.6	8	15.9	12.7
7"	190.5	304.8	260.4	8	15.9	12.7
8"	219.1	336.6	292.1	8	15.9	12.7
9"	244.5	368.3	323.9	8	15.9	15.9
10"	273.0	406.4	355.6	8	19.1	15.9
12"	323.9	457.2	406.4	12	19.1	15.9
14"	355.6	527.1	469.9	12	22.2	19.1
16"	406.4	577.9	520.7	12	22.2	19.1
18"	457.2	641.4	584.2	12	22.2	22.2
20"	508.0	704.9	641.4	16	22.5	25.4
24"	609.6	825.5	755.7	16	25.4	28.6

**Table-E: For Working Steam Pressure 50 IBS
Upto 100 lbs Per Sq. Inch**

nominal pipe size	O.D of pipe	Dia of flange	Dia of Bolt Circle	No.of bolt	Dia of bolt	thickness
1"	114.3	82.6		4	12.7	7.1
1 1/4"	120.7	87.3		4	12.7	7.9
1 1/2"	133.4	98.4		4	12.7	8.7
2"	152.4	114.3		4	15.9	9.5
2 1/2"	165.1	127.0		4	15.9	10.3
3"	184.2	146.1		4	15.9	11.1
3 1/2"	203.2	165.1		8	15.9	11.9
4"	215.9	177.8		8	15.9	12.7
5"	254.0	209.6		8	15.9	14.3
6"	279.4	228.6		8	19.1	17.5
7"	304.8	260.4		8	19.1	19.1
8"	336.6	292.1		8	19.1	19.1
9"	368.3	323.9	12		19.1	20.6
10"	406.4	355.6	12		19.1	22.2
12"	457.2	406.4	12		22.2	25.4
14"	527.2	469.9	12		22.2	25.4
16"	577.9	520.7	12		22.2	25.4
18"	641.4	584.2	16		22.2	28.6
20"	704.9	647.4	16		22.2	31.8
24"	825.5	755.7	16		25.4	38.1

**Table-F: For Working Steam Pressure above 100 IBS
Upto 150 lbs Per Sq. Inch**

nominal pipe size	O.D of pipe	Dia of flange	Dia of Bolt Circle	No.of bolt	Dia of bolt	thickness
1/2"	21.3	95.3	66.7	4	12.7	9.5
3/4"	26.7	101.6	73.0	4	12.7	9.5
1"	33.4	120.7	87.3	4	15.9	9.5
1 1/4"	42.2	133.4	98.4	4	15.9	12.7
1 1/2"	48.3	146.1	108.0	4	15.9	12.7
2"	60.3	165.1	127.0	4	15.9	15.9
2 1/2"	73.0	184.2	146.1	8	15.9	15.9
3"	88.9	203.2	165.1	8	15.9	15.9
3 1/2"	101.6	215.9	177.8	8	15.9	19.1
4"	114.3	228.6	190.5	8	15.9	19.1
5"	141.3	254.0	209.6	12	18.1	22.2
6"	168.3	304.8	260.4	12	19.1	22.2
7"	190.5	336.6	292.1	12	19.1	22.2
8"	219.1	368.3	323.9	12	19.1	25.4
8"	219.1	368.3	323.9	12	19.1	25.4
10"	273.0	431.8	381.0	12	22.2	25.4
12"	323.9	489.0	438.2	16	22.2	28.6
14"	355.6	552.5	495.3	16	25.4	31.8
16"	406.4	609.6	552.5	20	25.4	31.8
18"	457.2	673.1	609.6	20	28.6	34.9
20"	508.0	736.6	673.1	24	28.6	38.1
24"	609.6	850.9	781.1	24	31.8	41.3

**Table-H: For Working Steam Pressure above 150 IBS
Upto 250 lbs Per Sq. Inch**

nominal pipe size	O.D of pipe	Dia of flange	Dia of Bolt Circle	No.of bolt	Dia of bolt	thickness
1/2"	114.3	82.6		4	15.9	12.7
3/4"	114.3	82.6		4	10.9	12.7
1"	120.7	87.3		4	15.9	14.3
1 1/4"	133.4	98.4		4	15.9	17.5
1 1/2"	146.1	108.0		4	15.9	17.5
2"	165.1	127.0		4	15.9	19.1
2 1/2"	184.2	146.1		8	15.9	19.1
3"	203.2	165.1		8	15.9	19.1
3 1/2"	215.9	177.8		8	15.9	22.2
4"	228.6	190.5		8	15.9	25.4
5"	254.0	209.6		12	18.1	25.4
6"	304.8	260.4		12	19.1	28.6
7"	336.6	292.1		12	19.1	31.8
8"	368.3	323.9		12	19.1	31.8
10"	431.8	381.0		12	22.2	34.9
12"	489.0	438.2		16	22.2	38.1
14"	552.5	495.3		16	25.4	41.3
16"	609.6	552.5		20	25.4	44.5
18"	673.1	609.6		20	28.6	47.6
20"	736.6	673.1		24	28.6	50.8
24"	850.9	781.1		24	31.8	57.2



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S.S. INSTRUMENTAL FERRULE FITTINGS



Union Elbow



Male Elbow



Female Elbow



Union Tee



Male Run Tee



Male Branch Tee



Female Run Tee



Female Branch Tee



Union Cross



45 Deg Elbow



Tube End Closure



Bulk Head Elbow



Positionable Male Elbow



Nut Ferrule



Union



Reducing Union



Bulkhead Union



Male Connector



Female Connector



Male Adaptor

S.S TC FITTINGS



Union Elbow



Male Elbow



Female Elbow



Union Tee



Male Run Tee



Male Branch Tee



Female Run Tee



Female Branch Tee



Union Cross



45 Deg Elbow



Tube End Closure



Bulk Head Elbow



Positionable Male Elbow



Nut Ferrule



Union



Reducing Union



Bulkhead Union



Male Connector



Female Connector



Male Adaptor



APPLICATION OF INDUSTRIES



IRON & STEEL PLANT



MINES



DISTILLERIES



CEMENT PLANT



PAPER INDUSTRIES



FERTILIZER INDUSTRIES



CHEMICAL INDUSTRIES



SOLAR ENERGY



BEVERAGE INDUSTRIES



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REFINERY PLANT



TEXTILE INDUSTRIES



PHARMACY INDUSTRIES



SUGAR INDUSTRIES



DAIRY INDUSTRIES



FOOD INDUSTRIES



AUTOMOBILE INDUSTRIES



POWER PLANT

FORMULA OF WEIGHT

WEIGHT OF STAINLESS STEEL PIPES & TUBES

O.D. (mm) -W.T. (mm) X W.T. (mm) X 0.02466 kg. per Meter

O.D. (mm)W.T. (Mm) X W.T. (mm) X 0.00756 kg. per Feet

WEIGHT OF STAINLESS STEEL ROUNDS

Dia (mm) X Dia (mm) X 0.00623 = Kg. Per Meter

Dia (mm) X Dia (mm) X 0.0019 Kg. Per Feet

WEIGHT OF STAINLESS STEEL SQUARE BARS

Dia (mm) X Dia (mm) X 0.00787 = Kg. Per Meter

Dia (mm) X Dia (mm) X 0.0024 Kg. Per Feet

WEIGHT OF STAINLESS STEEL HEXAGONAL RODS

Dia (mm) X Dia (mm) X 0.00680 = Kg. Per Meter

Dia (mm) X Dia (mm) X 0.002072 = Kg. Per Feet

WEIGHT OF STAINLESS STEEL FLAT BAR

Width (mm) X Thk (mm) X 0.00798 = kg. Per Meter

Width (mm) X Thk (mm) X 0.00243 = kg. Per Feet

WEIGHT OF STAINLESS STEEL SHEETS

Length (Mtr.) X Width (Mtr.) X Thk (mm) x 8 = kg. per Sheet

Length (Ft.) X Width (Ft.) X Thk (mm) x 3/4 = kg. per Sheet

WEIGHT OF STAINLESS STEEL CIRCLES & BLANKS

Dia (mm) X Dia (mm) X Thk. (mm)/160 = Gmg. Per Pcs.

Dia (mm) X Dia (mm) X Thk. (Mm)X 0.0000063 =Kg. Per Pcs.

WEIGHT OF BRASS/COPPER PIPES

Length (mm) x W.T. (mm) X W.T. (mm) X 0.0260 Kg. Per Meter

WEIGHT OF CARBON STEEL SHEETS - PLATES

Length (Mtr.) x Width (Mtr.) X Thk (mm) X 7.85 Kg. Per Sheet

WEIGHT OF LEAD PIPES (APPRO.)

O.D. (mm) W.T. (mm) X W.T. (mm) X 0.0345 Kg. Per Meter

WEIGHT OF ALUMINIUM PIPES (APPRO.)

O.D. (mm) W.T. (mm) X W.T. (mm) X 0.0082 Kg. Per Meter

WEIGHT OF LEAD SHEETS (APPRO.)

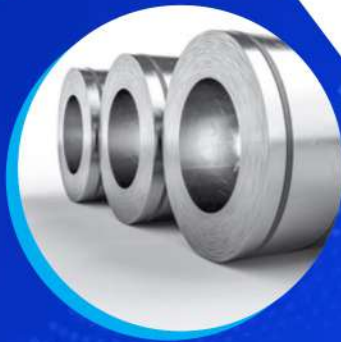
Length (mtr.) x Width (mtr.) X Thk. (mm) X 11.2 = Kg. Per Sheet

WEIGHT OF ALUMINIUM SHEETS (APPRO.)

Length (Mtr.) x width (Mtr.) X Tnk. (mm) X 2.69 = Kg. Per Sheet

TENSILE STRENGTH CONVERSION TABLE

(1)	Kg/mm ² X 9.81	= N/mm ² =MPa
(2)	Psi X 0.0007	= Kg/mm ²
(3)	KSi X 1000	= KSi
(4)	Kg/mm ² X 1.422	= PSI



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