



NIPPON

INTERNATIONAL PVT LTD
"Make Steel Relationship"

STAINLESS STEEL | CARBON STEEL | ALLOY STEEL | DUPLEX STEEL | NICKEL ALLOY



"Make Steel Relationship"



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Company Profile

Nippon International Pvt. Ltd. is Manufacturers, Exporters, Stockiest & Suppliers of a wide variety of Metal Products in Pipes, Tubes, Fittings, Flanges, Plates, Coils, Valves, Fasteners etc. Our Products are manufactured as per JIS / ISS / BSS / DIN / ASTM / ASME and customer's drawings and specifications. These are also supplied with third party inspection.

Nippon International Pvt. Ltd. is considered the foremost Manufacturer & Suppliers of a comprehensive range of Metal Products. The wide range of products **Pipes, Tubes, Rods, Sheets, Coils, Plates, Strips, Flanges, Butt-weld Fittings, Socket Weld Fittings, in Hastalloy, Nickel Alloy, Monel, Inconel, Copper Alloy, Titanium Alloy, SMO 254, Duplex, Super Duplex, High Tensile, Tantalum, Stainless Steel, Carbon Steel & Alloy Steel.** All these product offered by us have been widely appreciated by the customers owing to their superior quality and dimensional accuracy.

The objective of the company is to cater to the needs of the customers by providing them superior quality goods and ensuring customer satisfaction. To achieve this, we procure all the Materials from reliable manufacturers who produce the material using high quality raw material and latest technology. This has enabled us to gain trust of the customers and become a reliable business unit.

Quality

At, **Nippon International Pvt. Ltd.** Quality is our prime concern. We are able to maintain high quality standards through our committed personnel and sound infrastructure. We ensure that finest quality material is used for our products. For ensure the quality of each material, we are providing Material Test Materials along with supply. Our team of experts maintain a vigil on the quality of the products. Every single piece is attached with test certificates and reports. We are continually improving our quality to serve our clients better, We provide the material with chemical, physical, mechanical, ultrasonic, micro IGC and any other related test from Government approved laboratories As per customer requirement. We can provide any third party inspection of our material/product.

Why us

At, **Nippon International Pvt. Ltd.** customers have always been given the prime importance and customer satisfaction is our major concern. For this , we provide customized production and customized packaging facility to the customers. Also we have always satisfied our customers with timely delivery of all the products.



Email : sales@nipponintlgroup.com / nipponintlgroup@gmail.com

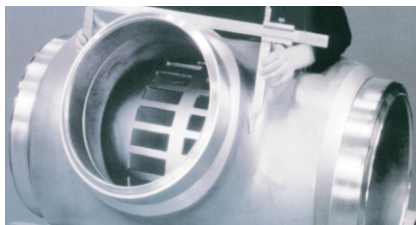
Website : www.nipponintlgroup.com



NIPPON
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"Make Steel Relationship"

MANUFACTURING

BUTT WELD / SOCKET WELD / THREADED FITTINGS / FLANGES & FASTENERS



This is to introduce ourselves as the most reliable outsourcing partners for manufacturing of buttwelding pipe fittings, socket weld, pipe fittings, flanges & tubular components in all kinds of steel. Our panel of experienced manufacturers ensures excellent quality fittings meeting exacting standards of National & International quality.

These Pipe Fitting are manufactured from ferrous metals such as Carbon Steel, Alloy Steel, Low Temperature Carbon Steel & Stainless Steel. Both Seamless and E.R.W. Pipe Fittings are Produced by our special manufacturing process involving either hot or cold forming. We are fully capable of manufacturing Pipe fittings made to customer's specifications in terms of type, dimensions, material & quantity under any third party inspection.

These Pipe Fittings are perfectly round, rugged, leak proof, corrosion resistant (Where ever required), meeting all the requirements to ASA / ASTM / BS / DIN / ISI codes. These quality fittings extend the life of piping systems, facilitate direct pipe welding, permit compact installations & reduce the space necessary for installing a piping network.

FACILITIES

- Hydraulic Press
- Oil Fired Furnace with Temp. Recorder
- Universal Testing Machine
- Hardness Tester
- Chemical laboratory
- Hacksaw cutting Machines
- Lathe Machines
- Plate Rolling Machines
- Grinding Machines
- Drilling Machines
- Motor Generator Welding Sets (Advani)
- AC Welding Sets (Advani)
- DC Rectifier Welding Sets (Advani)
- Computer & Software



NIPPON
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PIPES & TUBES

Range : 15NB to 800NB in SCH 5S, 10S, 20, 40S, 40, STD, 60, 80S, 80, XS, 100, 120, 140, 160 & XXS.

Form : Seamless / ERW / Welded in Round, Square, Rectangular, 'U' Tube & Corrugated Tubes.

Hastelloy : C276 / C22 / B2 / G2 / G4 / W / X / N / G / F, **Monel :** 400 / 401 / 404 / 502 / K500 / R405

Inconel : 600 / 601 / 625 / 718 **Incoloy :** 600 / 1/4/10/17/25/71/700/2/5/ 800 / 800H / 825 / 800 / 1/2/4/5/10/25/40/901/3/4 **Titanium :** Gr 1 / 2 / 5 / 9, **Duplex :** UNS NO. S31803, S32205, S32550, S32750, S32760.

Stainless Steel : GR TP 304, 304L, 304H, 309S, 309H, 310S, 310H, 316, 316Ti, 316H, 316LN, 317, 317L, 321, 321H, 347, 347H, 904L.

Carbon Steel : ASTM / ASME A 53 GR A, B, ASTM / ASME 106 GR A, B, C, API 5L GR B, API 5LX42, X46, X52, X60, X70, ASTM / ASME A 691 GR A, B, C.



SHEETS, PLATES, COILS, CIRCLE & RING

Range : 0.1 mm to 100 mm thick upto 3000 mm width.

Length : As Per Customer requirement or in Coil form.

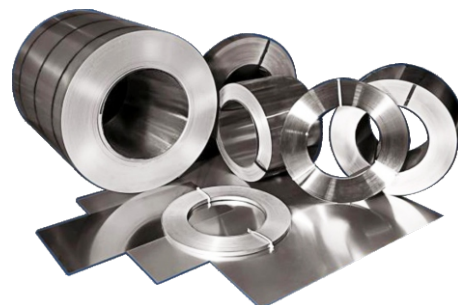
Hastelloy : C276 / C22 / B2 / G2 / G4 / W / X / N / G / F, **Monel :** 400 / 401 / 404 / 502 / K500 / R405

Inconel : 600 / 601 / 625 / 718 **Incoloy :** Gr 1 / 2 / 5 / 9, **Duplex :** UNS NO. S31803, S32205, D32550, S32750, S32760.

Stainless Steel : GR TP 304, 304L, 304H, 309S, 309H, 310S, 310H, 316, 316Ti, 316H, 316LN, 317, 317L, 321, 321H, 347, 347H, 904L.

Carbon Steel : ASTM / ASME A 53 GR A, B, ASTM / ASME 106 GR A, B, C, API 5L GR. B, API 5LX42, X46, X52, X60, X70. ASTM / ASME A691 GR. A, B, C.

Others : Super Duplex, Alloy Steel, Copper, Tantalum, Aluminium, Brass, Bronze, Zinc, Lead etc.



FLANGES

Range : 15 NB UP TO 600 NB

Class : 150 LBS, 300 LBS, 400 LBS, 600 LBS, 1500 LBS, 2500 LBS / TABLE 2.5, TABLE 6, TABLE 10, TABLE 16, TABLE 40, TABLE 64, TABLE 160, TABLE 320, TABLE 400

Form : SLIP ON, SOCKET WELD, BLIND, LAPPED, SCREWED, WELD NECK, REDUCING, SPECTACLE, SLIP ON BOSS, PLATE, PLATE BLANK, SCREWED BOSS.

Hastelloy : C276 / C22 / B2 / G2 / G4 / W / X / N / G / F, **Monel :** 400 / 401 / 404 / 502 / K500 / R405

Inconel : 600 / 601 / 625 / 718 **Incoloy :** 600 / 1/4/10/17/25/71/700/2/5/800/800H/825/800/1/2/4/ 5/10/25/40/901/3/4 **Titanium :** GR 1 / 2 / 5 / 9 **Duplex :** UNS NO. S31803, S32205, S32550, S32750, S32760.

Stainless Steel : ASTM / ASME SA 182 F304, 304L, 304H, 309H, 310H, 316, 316H, 316L, 316 LN, 317, 317L, 321, 321H, 347H.

Carbon Steel : ASTM / ASME A 105, ASTM / ASME A 350 LF 2.

Others : Super Duplex, Alloy Steel, Nickel, Copper, Tantalum, Aluminium, Brass, Zinc etc.





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BUTTWELD FITTINGS

Range : 15NB to 800NB in SCH 5S, 10S, 20, 40S, 40, STD, 60, 80S, 80, XS, 100, 120, 140, 160 & XXS.

Form : SEAMLESS & WELDED Long Radius & Short Radius Elbow, Reducing Elbow, Tee, Crosses, Reducer, Stub end, Collar, Pipe Cap, Bend, R= 3 D, 5 D, 6 D, 8 D, 10 D, & 20 D in 15 Deg, 30 Deg, 60 Deg & 90 Deg And Drawing Based Butt Weld Fitting (Customized).

Hastelloy : C276 / C22 / B2 / G2 / G4 / W / X / N / G / F, **Monel :** 400 / 401 / 404 / 502 / K500 / R405

Inconel : 600 / 601 / 625 / 718 **Incoloy :** 600 / 1/4/10/17/25/71/ 700/2 /5/ 800 / 800H / 825 / 800 / 1/2/4/5/10/25/40/901/3/4/ **Titanium :** Gr 1 / 2 / 5 / 9 **Duplex :** UNS NO. S31803, S32205, S32550, S32750, S 32760

Stainless Steel : ASTM / ASME SA 403 GR WP "S" / "W" / "WX" 304, 304L, 304H, 304N, 304LN, 309, 310H, 316, 316H, 317, 317L, 321, 321H, 347, 347H

Carbon Steel : ASTM / ASME A 234 WPB, WPC, ASTM / ASME A 860 WPHY 42/46/52/60

Others : Super Duplex, Alloy Steel, Nickel, Copper, Brass, Bronze, Zinc, Lead etc.



FORGED FITTINGS

Range : 15NB UP TO 100 NB IN 2000 LBS, 3000 LBS, 6000 LBS & 9000 LBS, 150 LBS, 250 LBS

Form : Elbow 90 Deg, Cross, Tee, Elbow 45 Deg, Coupling, Half Coupling & End Cap.

Hastelloy : C276 / C22 / B2 / G2 / G4 / W / X / N / G / F, **Monel :** 400 / 401 / 404 / 502 / K500 / R405

Inconel : 600 / 601 / 625 / 718 **Incoloy :** 600/1/4/10/17/25/71/2/5/ 800 / 800H / 825 / 800 / 1/2/4/ 5/10/25/40/901/3/4 **Titanium :** GR 1 / 2 / 5 / 9 **Duplex :** UNS NO. S31803, S32205, S32550, S32750, S32760.

Stainless Steel : ASTM / ASME SA 182 F304, 304L, 304H, 309H, 310H, 316, 316. 316H, 316L, 316LN, 317, 317L, 321, 321H, 347, 347H etc.

Carbon Steel : ASTM / ASME A105, ASTM / ASME A 350 LF 2

Alloy Steel : ASTM / ASME A 182 GR F5, F9, F11, F12, F22, F91.

Others : Super Duplex, Nickel, Copper, Tantalum, Brass etc.



BARS

Range : 3.17MM TO 35 MM DIA

Form : Round, Square, Rectangular, Hex etc

Hastelloy : C276 / C22 / B2 / G2 / G4 / W / X / N / G / F **Monel :** 400 / 401 / 404 / 502 / K500 / R405

Inconel : 600 / 601 / 625 / 718 **Incoloy :** 600 /1/4/10/17/25/71/700/2/5/ 800/800H / 825 / 800 / 1/2/4/5/10/25/40/901/3/4 **Titanium :** Gr 1 / 2 / 5 / 9 **Duplex:** UNS NO. S31803, S32205, S32500, S32750, S32760.

Stainless Steel : ASTM / ASME SA 276 TP 304, 304L, 309S, 309H, 310S, 316, 316L, 316Ti, 317, 321, 347, 410, 430, 431, 440 A, B & C, 446

Carbon Steel : ASTM / ASME A 105

Alloy Steel : ASTM / ASME A 182 GR F5, F9, F11, F12, F22, F91. ASTM / ASME A 729 GR B 11 & B 22.

Others : Super Duplex, Nickel, Copper, Tantalum, Brass, Zinc etc.





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FERRULE FITTINGS

Range : 1/16" OD to 2" OD, 2 MM to 50.80 MM OD

Form : Male Connector, Male Pipe Weld Connector, Male Elbow, Male Adapter, Bulkhead, Male Connector, Male Run Tee, Male Branch Tee, Female Branch Adapter, Female Connector, Female Elbow, Bulkhead Female Connector, Female Run Tee, Female Branch Tee, Union, Union Tee, Reducer etc.

Hastelloy : C276 / C22 / B2 / G2 / G4 / W / X / N / G / F Monel : 400 / 401 / 404 / 502 / K500 / R405

Inconel : 600 / 601 / 625 / 718 **Incoloy :** 600 / 1/4/10/17/25/71/ 700/2/5/ 800 / 800H / 825 / 800 / 1/2/4/5/10/25/40/ 901/3/4 **Titanium :** Gr 1 / 2 / 5 / 9 **Duplex :** UNS NO S31803, S32205, S32550, S32750, S32760

Stainless Steel : 304 304L, 304H, 316, 316L, 317, 317L, 321, 310, 347, 904L

Others : Carbon Steel, Alloy Steel, Super Duplex Steel, Nickel, Copper, Tantalum, Brass etc.



FASTENERS

Range : M5 to M50

Form : Bolts Stud Bolts, Hex, Head Bolts, Socket Hexagon Head Screw Anchor Bolts, U-Bolts, J Bolts, Mushroom Head Square Neck Bolts, T-Head Bolts, Wing Screw, Eye Bolt, Eye Bolt, Foundation Bolts, Structural Bolts.

Hastelloy : C276 / C22 / B2 / G2 / G4 / W / X / N / G / F Monel : 400 / 401 / 404 / 502 / K500 / R405

Inconel : 600 / 601 / 625 / 718 **Incoloy :** 600 / 1/4/10/17/25/71/ 700/2/5 / 800 / 800H / 825 / 800/ 1/2/4/5/10/25/40/ 901 / 3/4 **Titanium :** Gr 1 / 2 / 5 / 9 **Duplex :** UNS NO. S31803, S32205, S32550, S32750, S32760

Stainless Steel : 202, 304, 310, 304L, 316, 316L, 316Ti 317, 317L, 321, 904L

Nickel : Nickel 200 (UNS No. 2200), Nickel 201 (UNS No. 2201), Nickel 205 (UNS No. 2205)

Others: Carbon Steel, Alloy Steel, Super Duplex Steel, Copper, Tantalum, Brass etc.



ANGLES

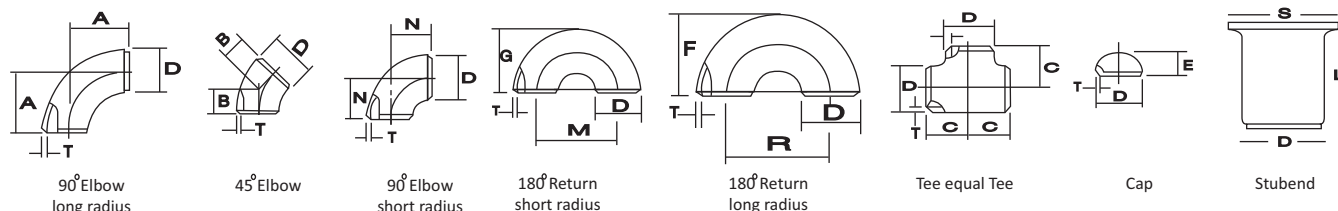
Range : 20 mm x 20 mm x 3mm Thk to 100mm X 100 mm X 12 mm Thk

Stainless Steel : 202, 304, 310, 304L, 316, 316L, 317, 317L, 321, 904L

Others : Carbon Steel, Alloy Steel, Duplex Steel, Copper, Hastelloy, Inconel, Incolony, Monel, Titanium, Tantalum, Brass etc.



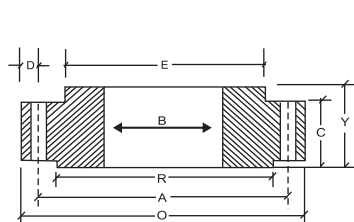
DIMENSION OF BUTT WELD FITTINGS ANSI B-16.9 / B-16.29



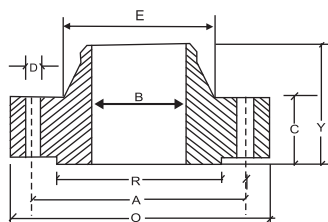
Nominal Pipe Size		Outside Diameter	Center to Face				Back to Face			Center to Center			Length 'L'	
INCH	MM	D	A R=1.5D	B	C	N R=1D	E	F	G	R	M	S	Short L	Long L
1/2	15	21.3	38.00	16.0	25.0	-	25.0	48.0	-	76.0		35.0	50.8	76.2
3/4	20	26.7	29.00	11.0	29.0	-	25.0	43.0	-	57.0		43.0	50.8	76.2
1	25	33.4	38.00	22.0	38.0	25.0	38.0	56.0	41.0	76.0	51.0	51.0	50.8	101.6
1.1/4	32	42.2	48.00	25.0	48.0	32.0	38.0	70.0	52.0	95.0	64.0	64.0	50.8	101.6
1.1/2	40	48.3	57.15	29.0	57.0	38.0	38.0	83.0	62.0	114.0	76.0	73.0	50.8	101.6
2	50	60.3	76.00	35.0	64.0	51.0	38.0	106.0	81.0	152.0	102.0	93.0	63.5	152.4
2.1/2	65	73.0	95.25	44.0	76.0	64.0	38.0	132.0	100.0	191.0	127.0	105.0	63.5	152.4
3	80	88.9	114.30	51.0	86.0	76.0	51.0	159.0	121.0	229.0	152.0	127.0	63.5	152.4
3.1/2	90	101.6	133.35	57.0	95.0	89.0	54.0	184.0	140.0	267.0	175.0	140.0	76.2	152.4
4	100	114.3	152.0	64.0	105.0	102.0	64.0	210.0	159.0	305.0	203.0	157.0	76.2	152.4
5	125	141.3	190.0	79.0	123.0	127.0	76.0	262.0	197.0	381.0	254.0	186.0	76.2	152.4
6	150	168.3	229.0	95.0	143.0	152.0	102.0	313.0	237.0	457.0	305.0	218.0	88.9	203.2
8	200	219.1	305.0	127.0	178.0	203.0	89.0	414.0	313.0	610.0	406.0	270.0	101.6	203.2
10	250	273.1	381.0	159.0	216.0	254.0	102.0	515.0	391.0	762.0	508.0	324.0	127.0	254.0
12	300	323.8	457.0	190.0	254.0	305.0	127.0	619.0	467.0	914.0	610.0	381.0	152.4	254.0
14	350	355.6	533.0	222.0	279.0	358.0	152.0	711.0	533.0	1067.0	711.0	413.0	152.4	305.0
16	400	406.4	610.0	254.0	305.0	406.0	165.0	813.0	610.0	1219.0	813.0	470.0	152.4	305.0
18	450	457.2	686.0	286.0	343.0	457.0	178.0	914.0	686.0	1372.0	914.0	533.0	152.4	305.0
20	500	508.0	762.0	318.0	381.0	508.0	203.0	1016.0	762.0	1524.0	1016.0	584.0	152.4	305.0
22	550	559.0	838.0	343.0	419.0	559.0	229.0	1118.0	838.0	1676.0	1118.0	614.4	152.4	305.0
24	600	610.0	914.0	381.0	432.0	610.0	254.0	1219.0	914.0	1629.0	1219.0	692.0	152.4	305.0
26	650	660.0	991.0	405.0	495.0	660.0	267.0							
28	700	711.0	1067.0	438.0	521.0	771.0	267.0							
30	750	762.0	1143.0	470.0	559.0	762.0	267.0							
32	800	813.0	1219.0	502.0	597.0	813.0	267.0							
34	850	864.0	1295.0	533.0	635.0	864.0	267.0							
36	900	914.4	1372.0	565.0	673.0	914.0	267.0							

All Dimension in Millimeters

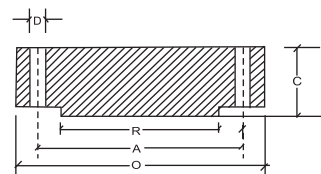
DIMENSIONS OF FORGED FLANGES ANSI B 16.5



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	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).

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	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).

STAINLESS STEEL PIPE DIMENSION & WEIGHT-KG. PER MTR. (ANSI B36.19)

Nominal Bore		Outside Diameter	Schedule 5S		Schedule 10S		Schedule 40S		Schedule 80S		Schedule 160S		Schedule XXS	
mm	INCH	mm	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)
3	1/8	10.3	1.24	0.276	1.24	0.28	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.24	0.390	1.65	0.49	2.24	0.631	3.02	0.80	-	-	-	-
10	3/8	17.1	1.24	0.490	1.65	0.63	2.31	0.845	3.20	1.10	-	-	-	-
15	1/2	21.3	1.65	0.800	2.11	1.00	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	2.87	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	3.38	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	3.56	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	3.68	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	3.91	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	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	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	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	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	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	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	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	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	11.13	94.59	19.05	158.08	35.71	281.70	-	-
400	16	406.4	4.19	41.56	4.78	47.29	12.7	123.30	21.41	203.33	40.46	365.11	-	-
450	18	457.2	4.19	46.80	4.78	53.42	14.27	155.80	23.8	254.36	45.71	466.40	-	-
500	20	508.0	4.78	59.25	5.54	68.71	15.09	183.42	26.19	311.2	49.99	564.68	-	-
600	24	609.6	5.54	82.47	6.35	94.45	17.48	255.41	30.96	442.08	59.54	808.22	-	-

CARBON STEEL SEAMLESS PIPE DIMENSION & WEIGHT - KG. PER MTR. (ANSI B 36.10)

Nominal Pipe size		O/D	Schedule 10		Schedule 20		Schedule 30		Schedule STD		Schedule 40		Schedule 60		Schedule Extra Strong (XS)		Schedule 80		Schedule 100		Schedule 120		Schedule 140		Schedule 160		Schedule Double Extra Strong(XXS)		
mm	inch	mm	mm	kg/m	mm	kg/m	mm	kg/m	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	
3	1/8	10.3							1.73	0.37	1.73	0.37			2.41	0.47	2.41	0.47											
6	1/4	13.7							2.24	0.63	2.24	0.63			3.02	0.80	3.02	0.80											
10	3/8	17.1							2.31	0.84	2.31	0.84			3.20	1.10	3.20	1.10											
15	1/2	21.3							2.77	1.27	2.77	1.27			3.73	1.62	3.73	1.62							4.78	1.95	7.5	2.55	
20	3/4	26.7							2.87	1.69	2.87	1.69			3.91	2.20	3.91	2.20							5.6	2.90	7.82	3.64	
25	1	33.4							3.38	2.50	3.38	2.50			4.55	3.24	4.55	3.24							6.35	4.24	9.1	5.45	
32	1¼	42.2							3.56	3.39	3.56	3.39			4.85	4.47	4.85	4.47							6.35	5.61	9.7	7.77	
40	1½	48.3							3.68	4.05	3.68	4.05			5.08	5.41	5.08	5.41							7.14	7.25	10.2	9.56	
50	2	60.3							3.91	5.44	3.91	5.44			5.54	7.48	5.54	7.48							8.74	11.11	11.07	13.4	
65	2½	73.0							5.16	8.63	5.16	8.63			7.01	11.41	7.01	11.41							9.53	14.92	14.0	20.4	
80	3	88.9							5.49	11.3	5.49	11.3			7.62	15.27	7.62	15.3							11.13	21.35	15.24	27.7	
90	3½	101.6							5.74	13.57	5.74	13.57			8.08	18.63	8.08	18.63							-	-	16.2	34.1	
100	4	114.3							6.02	16.07	6.02	16.07			8.56	22.3	8.56	22.3			11.13	28.32			13.5	33.5	17.12	41.03	
125	5	141.3							6.55	21.77	6.55	21.77			9.53	30.9	9.53	30.9			12.7	40.2			15.9	49.11	19.0	57.4	
150	6	168.3							7.11	28.26	7.11	28.26			10.97	42.5	10.97	42.5			14.3	54.2			18.3	67.5	21.95	79.22	
200	8	219.1			6.35	33.3	7.0	36.8	8.18	42.5	8.18	42.55	10.31	53.10	12.7	64.6	12.7	64.5	15.1	75.92	18.3	90.4	20.6	100.9	23.0	111.27	22.23	108.0	
250	10	273.0			6.35	41.7	7.8	51.3	9.27	60.3	9.27	60.31	12.70	81.50	12.7	81.5	15.1	96.0	18.3	114.7	21.44	133.0	25.4	155	28.6	172.3	25.4	155.0	
300	12	323.9			6.35	49.7	8.4	65.2	9.53	73.8	10.31	79.73	14.30	109.0	12.7	97.4	17.5	132.0	21.4	160.0	25.4	187.0	28.6	208	33.3	238.7	25.4	187.0	
350	14	355.6	6.35	54.6	7.92	67.9	9.53	81.3	9.53	81.3	11.13	94.55	15.10	126.4	12.7	107.4	19.0	158.0	23.8	195.0	27.8	224.0	31.8	253.5	35.7	281.7			
400	16	406.4	6.35	62.6	7.92	77.9	9.53	93.3	9.53	93.3	12.7	123.3	16.70	160.0	12.7	123.3	21.44	203.5	26.2	245.5	30.9	286.6	36.53	333	40.5	365.4			
450	18	457.0	6.35	70.5	7.92	87.7	11.13	122.4	9.53	105.0	14.27	156.0	19.05	206.0	12.7	139.0	23.8	254.6	29.36	309.6	34.9	363.6	39.7	408.3	45.2	459.4			
500	20	508.0	6.35	78.5	9.53	117.2	12.7	155.1	9.53	117.2	15.09	183.4	20.62	248.5	12.7	155.1	26.2	311.2	32.54	381.5	38.1	441.5	44.4	508	50.0	564.8			
550	22	559.0	6.35	86.5	9.53	129.0	12.7	171.0	9.53	129.0			22.20	294.0	12.7	171.0	28.6	373.8	34.9	451.4	41.3	527.0	47.6	600	54.0	672.0			
600	24	610.0	6.35	94.5	9.53	141.0	14.3	209.7	9.53	141.0	17.48	255.4	24.61	355.0	12.7	187.0	30.96	442.08	38.89	547.7	46.0	640.0	52.4	720.15	59.5	808.22			
650	26	660.0	7.92	127.0	12.7	203.0			9.53	153.0					12.7	202.7													
700	28	711.0	7.92	137.4	12.7	218.7	15.88	271.2	9.53	165.0					12.7	218.7													
750	30	762.0	7.92	147.3	12.7	234.6	15.88	292.18	9.53	176.8					12.7	234.7													
800	32	813.0	7.92	157.0	12.7	250.6	15.88	312.0	9.53	188.2	17.48	342.9			12.7	250.6													
850	34	864.0	7.92	167.0	12.7	266.6	15.88	332.1	9.53	200.3	17.48	364.9			12.7	266.6													
900	36	914.4	7.92	176.9	12.7	282.3	15.88	351.7	9.53	212.5	19.05	420.4			12.7	282.2													
Formula: Pipe Weight Kg/Mtr. = OD - Thick x Thick x 0.02466 = Kg Per Mtr.																													
A 106 Gr B																													
API - 5L - Gr B																													
A 333 Gr 6																													
A 335 P 5																													

CHEMICAL COMPOSITION OF STAINLESS STEEL PIPES & TUBES

Grade	UNS Designation	Carbon max	Manganese max	Sulphur max	Phosphorus max	Silicon	Nickel	Chromium	Molybdenum	Titanium	Columbium plus Tantalum	Tantalum max	Nitrogen ^c	Vanadium	Copper	Cerium	Boron
TP304	S30400	0.08	2.00	0.040	0.030	0.75 max	8.00-11.0	18.0-20.0	—	—	—	—	—	—	—	—	—
TP304H	S30409	0.04-0.10	2.00	0.040	0.030	0.75 max	8.00-11.0	18.0-20.0	—	—	—	—	—	—	—	—	—
TP304L	S30403	0.035	2.00	0.040	0.030	0.75 max	8.00-13.0	18.0-20.0	—	—	—	—	—	—	—	—	—
TP304N	S30451	0.08	2.00	0.040	0.030	0.75 max	8.00-11.0	18.0-20.0	—	—	—	—	0.10-0.16	—	—	—	—
TP304LN	S30453	0.035	2.00	0.040	0.030	0.75 max	8.00-11.0	18.0-20.0	—	—	—	—	0.10-0.18	—	—	—	—
TP309Cb	S30940	0.08	2.00	0.045	0.030	0.75 max	12.0-16.0	22.0-24.0	0.75 max	—	10 x C min 1.10 max	—	—	—	—	—	—
TP309H	S30909	0.04-0.10	2.00	0.040	0.030	0.75 max	12.0-15.0	22.0-24.0	—	—	—	—	—	—	—	—	—
TP309HCb	S30410	0.04-0.10	2.00	0.045	0.030	0.75 max	12.0-16.0	22.0-24.0	0.75 max	—	10 x C min 1.10 max	—	—	—	—	—	—
TP309S	S30908	0.08	2.00	0.045	0.030	0.75 max	12.0-15.0	22.0-24.0	0.75 max	—	—	—	—	—	—	—	—
TP310Cb	S31040	0.08	2.00	0.045	0.030	0.75 max	19.0-22.0	24.0-26.0	0.75 max	—	10 x C min 1.10 max	—	—	—	—	—	—
TP310H	S31009	0.04-0.10	2.00	0.040	0.030	0.75 max	19.0-22.0	24.0-26.0	—	—	—	—	—	—	—	—	—
TP310HCb	S31041	0.04-0.10	2.00	0.045	0.030	0.75 max	19.0-22.0	24.0-26.0	0.75 max	—	10 X C min 1.10 max	—	—	—	—	—	—
TP310S	S31008	0.08	2.00	0.045	0.030	0.75 max	19.0-22.0	24.0-26.0	0.75 max	—	—	—	—	—	—	—	—
	S31272	0.08-0.12	1.5	0.030	0.015	0.3-0.7	14.0-16.0	14.0-16.0	1.0-1.4	0.3-0.6	—	—	—	—	—	—	—
TP316	S31600	0.08	2.00	0.040	0.030	0.75 max	11.0-14.0	16.0-18.0	2.00-3.00	—	—	—	—	—	—	—	—
TP316H	S31609	0.04-0.10	2.00	0.040	0.030	0.75 max	11.0-14.0	16.0-18.0	2.00-3.00	—	—	—	—	—	—	—	—
TP316L	S31603	0.035	2.00	0.040	0.030	0.75 max	10.0-15.0	16.0-18.0	2.00-3.00	—	—	—	—	—	—	—	—
TP316N	S31651	0.08	2.00	0.040	0.030	0.75 max	11.0-14.0	16.0-18.0	2.00-3.00	—	—	—	0.10-0.16	—	—	—	—
TP316LN	S31653	0.035	2.00	0.040	0.030	0.75 max	11.0-14.0	16.0-18.0	2.00-3.00	—	—	—	0.10-0.18	—	—	—	—
TP317	S31700	0.08	2.00	0.040	0.030	0.75 max	11.0-14.0	18.0-20.0	3.00-4.00	—	—	—	—	—	—	—	—
TP317L	S31703	0.035	2.00	0.040	0.030	0.75 max	11.0-15.0	18.0-20.0	3.00-4.00	—	—	—	—	—	—	—	—
TP321	S32100	0.08	2.00	0.040	0.030	0.75 max	9.00-13.0	17.0-20.0	—	F	—	—	—	—	—	—	—
TP321H	S32109	0.04-0.10	2.00	0.040	0.030	0.75 max	9.00-13.0	17.0-20.0	—	G	—	—	—	—	—	—	—
TP347	S34700	0.08	2.00	0.040	0.030	0.75 max	9.00-13.0	17.0-20.0	—	H	—	—	—	—	—	—	—
TP347H	S34709	0.04-0.10	2.00	0.040	0.030	0.75 max	9.00-13.0	17.0-20.0	—	I	—	—	—	—	—	—	—
TP347LN	S34751	0.005-0.020	2.00	0.040	0.030	0.75 max	9.00-13.0	17.0-20.0	—	—	0.2-0.5 ^h	—	0.06-0.10	—	—	—	—
TP348	S34800	0.08	2.00	0.040	0.030	0.75 max	9.00-13.0	17.0-20.0	—	—	H	0.10	—	—	—	—	—
TP348H	S34809	0.04-0.10	2.00	0.040	0.030	0.75 max	9.00-13.0	17.0-20.0	—	—	I	0.10	—	—	—	—	—
TPXM 10	S32900	0.08-10.00	8.00-10.00	0.040	0.030	1.00 max	5.50-7.50	19.0-21.5	—	—	—	—	0.15-0.40	—	—	—	—
TPXM 11	S21904	0.04-10.00	8.00-10.00	0.040	0.030	1.00 max	5.50-7.50	19.0-21.5	—	—	—	—	0.15-0.40	—	—	—	—
TPXM-15	S38100	0.08	2.00	0.030	0.030	1.50-2.50	17.5-18.5	17.0-19.0	—	—	—	—	—	—	—	—	—
TPXM-19	S20910	0.060	4.00-6.00	0.040	0.030	1.00 max	11.5-13.5	20.5-3.00	1.50-3.00	—	0.10-0.30	—	0.20-0.40	0.10-0.30	—	—	—
TPXM-29	S24000	0.080	11.5-14.5	0.060	0.030	1.00 max	2.25-3.75	17.0-19.0	—	—	—	—	0.20-0.40	—	—	—	—
—	S31254	0.020	1.00	0.030	0.010	0.80 max	17.5-18.5	19.5-20.5	6.00-6.50	—	—	—	0.18-0.22	—	0.50-1.00	—	—
—	S30615	0.16-0.24	2.00	0.030	0.030	3.2-4.0	13.5-16.0	17.0-19.5	—	—	—	—	—	—	—	—	—
—	S30815	0.05-0.10	0.80	0.040	0.030	1.40-2.00	10.0-12.0	20.0-22.0	—	—	—	—	0.14-0.20	—	—	0.03-0.08	—
—	S31050	0.025	2.00	0.020	0.015	0.4	20.5-23.5	24.0-26.0	1.6-2.6	—	—	—	0.09-0.15	—	—	—	—
—	S30600	0.018	2.00	0.020	—	3.7-4.3	14.0-15.5	17.0-18.5	0.20 max	—	—	—	—	—	0.50 max	—	—
—	S31725	0.03	2.00	0.040 ^j	—	0.75	13.5-17.5	18.0-20.0	4.0-5.0	—	—	—	0.10 max	—	0.75 max	—	—
—	S31726	0.03	2.00	0.040 ^j	—	0.75	13.5-17.5	17.0-20.0	4.0-5.0	—	—	—	0.10-0.20	—	0.75 max	—	—
—	S32615	0.07	2.00	0.045	—	4.8-6.0	19.0-22.0	16.5-19.5	0.3-1.5	—	—	—	—	—	1.5-2.5	—	—
—	S33228	0.04-0.08	2.00	0.020	—	0.30 max	31.0-33.0	26.0-28.0	—	—	0.6-1.0	—	—	—	—	0.05-0.10	—
—	S24565	0.03	5.0-7.0	0.030	0.010	1.00 max	16.0-18.0	23.0-25.0	4.0-5.0	—	0.1 max	—	0.04-0.6	—	—	—	—
—	S30415	0.4-0.06	0.80	0.045	0.030	1.00-2.00	9.00-10.0	18.0-19.0	—	—	—	—	0.12-0.16	—	—	0.03-0.08	—
—	S32654	0.020	2.00-4.00	0.030	0.005	0.50 max	21.0-23.0	24.0-25.0	7.00-8.00	—	—	—	0.45-0.55	—	0.030-0.60	—	—
—	S35315	0.04-0.08	2.00	0.045	0.030	0.75	34.0-36.0	24.0-26.0	—	—	—	—	0.12-0.18	—	—	0.03-0.08	—
—	N08367	0.030	2.00	0.030	0.030	1.00 max	23.50-25.50	20.00-22.00	6.00-7.00	—	—	—	0.18-0.25	—	0.72 max	—	—

New designation established in accordance with Practice E 527 and SAE J 1086.

Maximum, unless otherwise indicated, The method of analysis for nitrogen shall be a matter of agreement between the purchaser and manufacturer.

For welded TP316, TP316N, TP316LN and TP316H Pipe the nickel range shall be 10.0-14.0 % For small diameter or thin walls or both, where many drawing passas are required, a carbon maximum of 0.040% is necessary in grades TP304L and TP316L. Small diameter tubes are defined as those less 0.500 in (12.7mm)

0.049 in (1.20 mm) in avargae wall thickness (1.10 min) in minimum wall thickness

The titanium content shall be not less than five times the carbon content and not more than 0.70 %, The titanium content shall be not be less than four times the carbon content and not more than 0.60 %, The Columbium plus titanium content shall be not less than ten times carbon content and not more than 1.00 %.

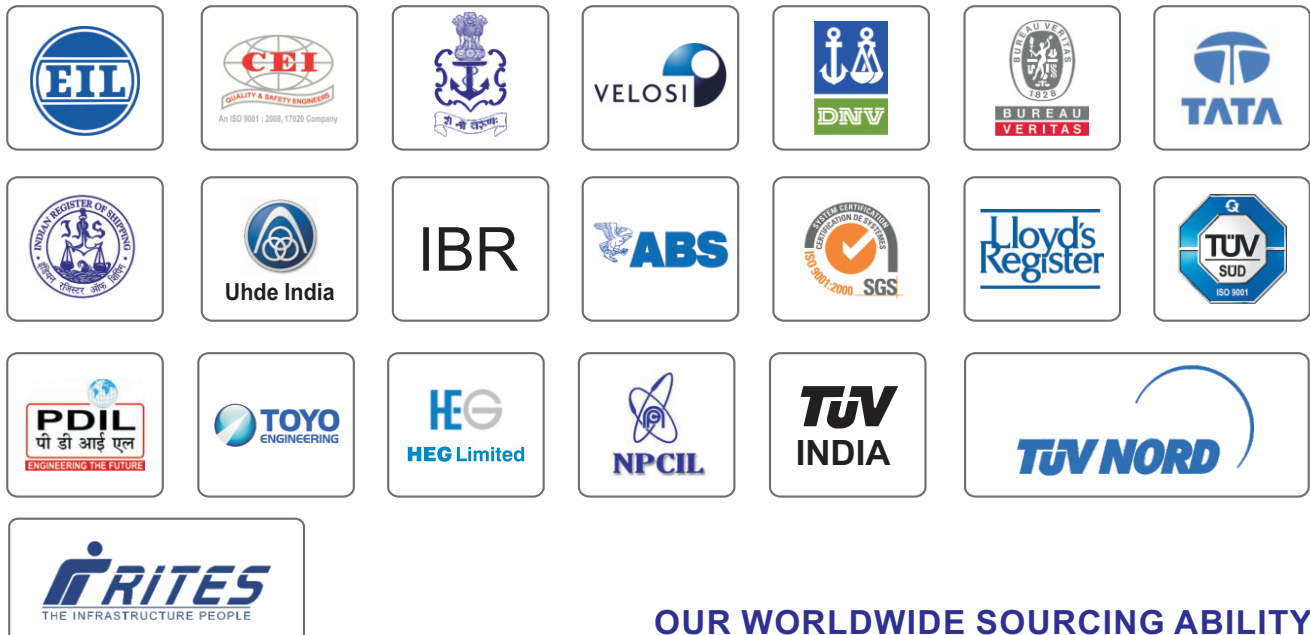
The Columbium plus titanium content shall be not less than eight times carbon content and not more than 1.00 %.

For welded pipe, the phosphorus maximum shall be 0.045%, Grade S34751 shall hav a columbium (Niobium) plus tantalum content of not less than 15 times the carbon content.



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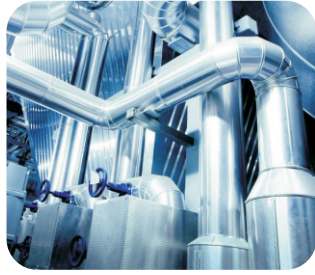
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