



ACCURATE STAINLESS STEEL

AN ISO 9001:2015 CERTIFIED COMPANY



- Stainless Steel »
- Carbon Steel »
- Alloys Steel »
- Mild Steel »
- Duplex Steel »
- IBR & Non IBR »
- Non Ferrous Metals »



www.accuratesteel.in



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About Us

Welcome to **ACCURATE STAINLESS STEEL**, a pioneering steel manufacturer and supplier with a rich legacy of excellence. Established in 1991, we have accumulated over 30 years of unparalleled expertise in the Piping and Tubing industry. What began as a modest venture has evolved into a leading player in the global steel market. With decades of experience under our belt, we are proud to be a trusted partner for clients across various sectors. At **ACCURATE STAINLESS STEEL**, we believe that quality and customer satisfaction are the cornerstones of our success. Our company is committed to delivering products that not only meet but exceed industry standards. We offer a wide range of premium grade materials, including

We offer the Best Quality & Prices for:

- » Stainless Steel Pipes & Tubes
- » Inconel Pipes
- » Carbon Steel
- » Copper-Nickel Tubes
- » Hastelloy Flanges
- » Duplex Steel
- » Pipe Fittings



Testing and Processing at **ACCURATE STAINLESS STEEL**

At Accurate Stainless Steel, we maintain strict quality control through advanced testing and processing procedures to ensure the reliability and durability of our products.

Raw Material Inspection : We source premium materials, inspecting each batch for compliance with international standards.

Manufacturing: Utilizing state of the technology, our processes include hot & cold rolling, precision welding, and heat treatment to enhance product strength and performance.

Quality Testing: Our products undergo rigorous testing, including ultrasonic testing, hardness tests, and non-destructive evaluations, ensuring each item meets the highest safety and durability standards before delivery.





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Transportation and Logistics at **ACCURATE STAINLESS STEEL**

At Accurate Stainless Steel, we recognize the critical role that efficient transportation and logistics play in ensuring the timely delivery of materials to our clients. We have developed a comprehensive logistics network that ensures smooth, safe, and on-time delivery, no matter the destination.





Our esteemed Quality Material Manufacturers & Suppliers stand as a premier destination for a comprehensive range of industrial raw materials in both ferrous and non-ferrous metals. Our extensive product portfolio includes top-notch pipes, tubes, sheets, plates, coils, angles, channels, beams, TMT bars, and round/square/hex/wire bars, catering to diverse industrial applications. With an unwavering commitment to excellence, we also offer a wide array of fittings such as butt weld, socket weld, ferrule, and TC fittings, ensuring a seamless integration into various systems. Moreover, our range extends to high-quality flanges that meet stringent industry standards. Clients can rely on us for superior materials that not only meet but exceed their expectations, fostering trust and long-term partnerships. Our commitment to quality, reliability, and a diverse product line positions us as a reliable one-stop solution for all industrial raw material needs.



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STAINLESS STEEL, CARBON STEEL, ALLOYS STEEL, NICKEL, & COPPER PIPES



STAINLESS & DUPLEX STEEL PIPES

Leveraging on our finest manufacturing unit and Experienced work force, our company offers stainless and Duplex steel pipes. High quality pipes are stainless because Of a protective layer on their surfaces which reduces the Fate of corrosion to almost negligible levels. Available in Different grades and dimensions, these stainless steel and Duplex steel pipes are widely used in various industries Such as construction, cement, petrochemical and more.

STAINLESS STEEL

ASTM / ASME SA 312 GR. TP 304, 304L, 304H, 309S, 309H, 310S, 310H, 316, 316Ti, 316H, 316LN, 317, 317L, 321, 321H, 347, 347H, 904L. ASTM / ASME SA 358 CL 1 & CL 3 GR. 304, 304L, 304H, 309S, 309H, 310S, 310H, 316, 316H, 321, 321H. 47.

Duplex Steel

ASTM/ASME SA 790 UNS NO

CARBON & ALLOY STEEL PIPES

We are one of the most trusted manufacturers for of faring Finest range of carbon and alloy steel pipes. Used in Different industries for diverse applications, these pipes can Be availed in standard as well as customized dimensions as Per the requirement of the clients. These pipes are Appreciated for their sturdy and precise construction we Are known for offering our product range at reasonable Prices and delivering consignment within given time frame.

CARBON STEEL

ASTM / ASME A 53 GR A & B, ASTM A 106 GR. A, B & C. API 5L GR. B, API 5L X 42, X 46, X 52, X 60, X 65 & X 70. ASTM / ASME A 691 GRA, B & C. **IBR & NON - IBR**

ALLOY STEEL

ASTM / ASME A 335 GR P 1, P 5, P 9, P 11, P 12, P 22, P 23, P 91 ASTM/ASME A 691 GR 1 CR. 1 1/4 CR. 2 1/4 GR

NICKEL & COPPER ALLOY PIPES

Adopting the highest industry standards, we manufacture finest range of nickel and copper alloy pipes. These pipes are fabricated from qualitative raw material as per global demand and ensures accurate precision Available in wide range of technical specifications, our comprehensive range is highly acknowledged in Indian as well as overseas market for their attributes of high strength, excellent finish, and complete reliability in services.

NICKEL ALLOY

ASTM/ASME SB 163 UNS 2200 (NICKEL 200)
ASTM/ASME SB 163 UNS 2201 (NICKEL 201)
ASTM / ASME SB 163 / 165 UNS 4400 (MONEL 400)
ASTM/ASME SB 464 UNS 8020 (ALLOY 20/20 C 3)
ASTM/ASME SB T04/705 UNS 8825 INCONEL 1825)
ASTM/ASME SB 167/517 UNS 6800 (INCONEL 600)
ASTM/ASME SB 167 UNS 6601 (INCONEL 601)
ASTM/ASME SB 704 705 UNS 6625 (INCONEL 625)
ASTM / ASME SB 619/622/626 UNS 10276 (HASTELLOY C 276)

COPPER ALLOY

ASTM/ASME SE 111 UNS NO C 10100, 10200, 10300, 10800, 12000, 12200, 70600, 71500
ASTM/ ASME Se 466 UNS NO C 70600 (CU -NI- 90/10).
C71500 (CU -NI- 70/30)

PRODUCTS



**Stainless Steel
Plate**



Mild Steel Plate



Hardox Plate



**Stainless Steel
Pipes**



Mild Steel Pipes



**Carbon Steel
Pipes**



**Stainless Steel
Flanges**



**Mild Steel
Flanges**



**Carbon Steel
Flanges**



Copper Flange



**Mild Steel
Fittings**



**Carbon Steel
Fittings**



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PRODUCTS



Copper
Tubes & Pipes



Angles



Channels



Copper Pipe
Fittings



Stainless Steel
Round Bars



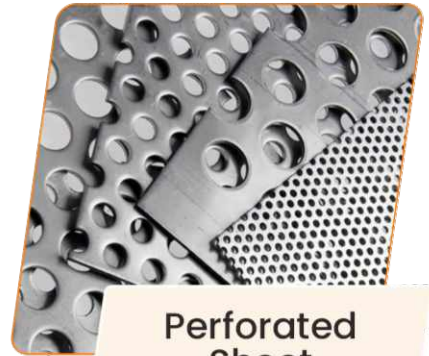
Stainless Steel
Square Bars



Stainless Steel
Hex Bars



Wire Bar



Perforated
Sheet



Valves



Diary Fittings



Ferrule Fittings



CS PIPE DIMENSION ANS B 36-10

Size of Pipes & Tubes			Nominal Thickness and weight													
			Number of Schedule													
			5S		10S		10		20		30		40		60	
Nominal Inch.	DN	Outside in Inch.	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m
1/8"	6	10.3	-	-	1.28	0.28	-	-	1.60	0.345	-	-	1.73	0.37	-	-
1/4"	8	13.7	-	-	1.65	0.49	-	-	2.00	0.580	-	-	2.24	0.63	-	-
3/8"	10	17.1	-	-	1.65	0.63	-	-	2.00	0.750	-	-	2.31	0.84	-	-
1/2"	15	21.3	1.65	0.81	2.11	1.00	-	-	2.30	1.070	-	-	2.77	1.27	-	-
3/4"	20	26.7	1.65	1.03	2.11	1.28	-	-	2.50	1.500	-	-	2.87	1.69	-	-
1"	25	33.4	1.65	1.29	2.77	2.08	-	-	3.00	2.240	-	-	3.38	2.50	-	-
1 1/4"	32	42.2	1.65	1.65	2.77	2.69	-	-	3.00	2.910	-	-	3.56	3.39	-	-
1 1/2"	40	48.3	1.65	1.90	2.77	3.12	-	-	3.00	3.370	-	-	3.68	4.05	-	-
2"	50	60.3	1.65	2.38	2.77	3.94	-	-	3.00	4.263	-	-	3.91	5.44	-	-
2 1/2"	65	73.0	2.11	3.70	3.05	5.26	-	-	4.00	6.486	-	-	5.16	8.63	-	-
3"	80	88.9	2.11	4.50	3.05	6.45	-	-	4.00	8.423	-	-	5.49	11.29	-	-
3 1/2"	90	101.6	2.11	5.20	3.05	7.40	-	-	4.50	10.838	-	-	5.74	13.57	-	-
4"	100	114.3	2.11	5.81	3.05	8.34	-	-	4.50	12.555	-	-	6.02	16.07	-	-
5"	125	141.3	2.77	9.45	3.40	11.56	-	-	5.00	16.900	-	-	6.55	21.77	-	-
6"	150	168.3	2.77	11.31	3.40	13.82	-	-	6.35	24.150	-	-	7.11	28.26	-	-
8"	200	219.1	2.77	14.78	3.76	19.94	-	-	6.35	33.31	7.04	36.81	8.18	42.55	10.31	53.08
10"	250	273.0	3.40	22.62	4.19	27.83	-	-	6.35	41.75	7.80	51.01	9.27	60.29	12.70	81.52
12"	300	323.9	3.96	33.00	4.57	36.00	-	-	6.35	49.71	8.38	65.18	10.31	79.70	14.27	108.92
14"	350	355.6	3.96	34.23	4.78	41.18	6.35	54.69	7.92	67.90	9.53	81.25	11.13	94.55	15.09	126.71
16"	400	406.4	4.19	41.60	4.78	47.38	6.35	62.64	7.92	77.83	9.53	93.17	12.70	123.30	16.66	160.12
18"	450	457.2	4.19	46.83	4.78	53.18	6.35	70.60	7.92	87.75	11.13	122.43	14.27	155.87	19.05	205.83
20"	500	508.0	4.78	59.22	5.54	68.50	6.35	78.55	9.53	117.02	12.70	155.12	15.09	183.42	20.62	247.83
22"	550	558.8	4.78	63.75	5.54	73.81	6.35	86.50	9.53	129.01	12.70	171.01	-	-	22.23	294.25
24"	600	609.6	5.54	82.60	6.35	94.37	6.35	94.46	9.53	140.88	14.27	209.50	17.48	254.24	24.61	355.02
26"	650	660.4	-	-	-	-	7.92	127.43	12.70	202.85	-	-	-	-	-	-
28"	700	711.2	-	-	-	-	7.92	137.42	12.70	218.73	15.88	272.18	-	-	-	-
30"	750	762.0	-	-	-	-	7.92	147.36	12.70	234.64	15.88	292.06	-	-	-	-
32"	800	812.8	-	-	-	-	7.92	157.28	12.70	250.55	15.88	311.95	17.48	342.70	-	-
34"	850	863.6	-	-	-	-	7.92	167.20	12.70	266.46	15.88	331.83	17.48	364.58	-	-
36"	900	914.4	-	-	-	-	7.92	177.13	12.70	282.36	15.88	351.72	19.05	420.56	-	-

N.B. : thickness and weight "Standard" "Extra Strong" & "Double Extra Strong" within swell edges have a correspondent Value in "schedule" for different thickness that suitable the weight can precedes by following formula $24.66 (d/t)$



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CS PIPE DIMENSION ANS B 36-10

Nominal Thickness and weight															
Number of Schedule															
80		100		120		140		160		Standard (STD)		Extra Strong		Double Ex. 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
2.41	0.47	-	-	-	-	-	-	-	-	1.73	0.37	2.41	0.47	-	-
3.02	0.80	-	-	-	-	-	-	-	-	2.24	0.63	3.02	0.80	-	-
3.20	1.10	-	-	-	-	-	-	-	-	2.31	0.84	3.20	1.10	-	-
3.73	1.62	-	-	-	-	-	-	4.78	1.95	2.77	1.27	3.73	1.62	7.47	2.55
3.91	2.20	-	-	-	-	-	-	5.56	2.90	2.87	1.69	3.91	2.20	7.82	3.64
4.55	3.24	-	-	-	-	-	-	6.35	4.24	3.38	2.50	4.55	3.24	9.09	5.45
4.85	4.47	-	-	-	-	-	-	6.35	5.61	3.56	3.39	4.85	4.47	9.70	7.77
5.08	5.41	-	-	-	-	-	-	7.14	7.25	3.68	4.05	5.08	5.41	10.15	9.56
5.54	7.48	-	-	-	-	-	-	8.74	11.11	3.91	5.44	5.54	7.48	11.07	13.44
7.01	11.41	-	-	-	-	-	-	9.53	14.90	5.16	8.63	7.01	11.41	14.02	20.39
7.62	15.27	-	-	-	-	-	-	11.13	21.35	5.49	11.29	7.62	15.27	15.24	27.68
8.08	18.63	-	-	-	-	-	-	-	-	5.74	13.57	8.08	18.63	-	-
8.56	22.32	-	-	11.13	28.32	-	-	13.49	33.54	6.02	16.07	8.56	22.32	17.12	41.03
9.53	30.94	-	-	12.70	40.28	-	-	15.88	49.11	6.55	21.77	9.53	30.94	19.05	57.43
10.97	42.56	-	-	14.27	54.20	-	-	18.26	67.56	7.11	28.26	10.97	42.56	21.95	79.22
12.70	64.64	15.09	75.92	18.26	90.44	20.62	100.92	23.01	111.27	8.18	42.55	12.70	64.64	22.22	107.88
15.09	95.97	18.26	114.70	21.44	133.00	25.40	155.09	28.58	172.33	9.27	60.29	12.70	81.52	25.40	155.09
17.48	132.04	21.44	159.86	25.40	186.91	28.58	208.00	33.32	238.68	9.53	73.78	12.70	97.43	25.40	186.91
19.05	158.10	23.83	194.96	27.79	224.65	31.75	253.56	35.71	281.70	9.53	81.25	12.70	107.39	-	-
21.44	203.53	26.19	245.56	30.96	286.64	36.53	333.19	40.49	365.35	9.53	93.17	12.70	123.30	-	-
23.83	254.67	29.36	309.76	34.92	363.64	39.67	408.45	45.24	459.59	9.53	105.10	12.70	139.20	-	-
26.19	311.17	32.54	381.53	38.10	441.49	44.45	508.11	50.01	564.81	9.53	117.02	12.70	155.10	-	-
28.58	373.83	34.93	451.52	41.28	527.02	47.63	600.63	53.98	672.26	9.53	129.01	12.70	171.01	-	-
30.96	441.78	38.89	547.73	46.02	639.58	52.37	719.63	59.54	807.63	9.53	140.88	12.70	186.94	-	-
-	-	-	-	-	-	-	-	-	-	9.53	152.80	12.70	202.85	-	-
-	-	-	-	-	-	-	-	-	-	9.53	164.80	12.70	218.73	-	-
-	-	-	-	-	-	-	-	-	-	9.53	176.73	12.70	234.64	-	-
-	-	-	-	-	-	-	-	-	-	9.53	188.66	12.70	250.55	-	-
-	-	-	-	-	-	-	-	-	-	9.53	200.59	12.70	266.46	-	-
-	-	-	-	-	-	-	-	-	-	9.53	212.52	12.70	282.36	-	-

N.B. : thickness and weight "Standard" "Extra Song" & "Double Extra Strong" within swell edges have a correspondent Value in "schedule" for different thickness that suitable the weight can preceeds by following formula $24.66 (d/t)$

STAINLESS STEEL PIPE SERIES (ANSI B 36.10, B36.19)

Nominal Pipe Size Inch	Out Side Diameter ASTM	Wall Thickness And Weight											
		Sch. 5S		Sch. 10S		Sch. 40S		Sch. 80S		Sch. 160S		Sch. xxx	
1/8	10.29	-	-	1.24	0.280	1.73	0.370	2.41	0.475	-	-	-	-
1/4	13.72	-	-	1.65	0.498	2.24	0.643	3.02	0.808	-	-	-	-
3/8	17.15	-	-	1.65	0.640	2.31	0.857	3.20	1.116	-	-	-	-
1/2	21.34	1.65	0.812	2.11	1.014	2.77	1.286	3.73	1.642	4.78	1.979	7.47	2.59
3/4	26.67	1.65	1.032	2.11	1.300	2.87	1.708	3.91	2.225	5.56	2.934	7.82	3.69
1	33.40	1.65	1.310	2.77	2.121	3.38	2.537	4.55	3.282	6.35	4.294	9.09	5.52
1¼	42.16	1.65	1.671	2.77	2.728	3.56	3.435	4.85	4.524	6.35	5.685	9.70	7.87
1½	48.26	1.65	1.923	2.77	3.150	3.68	4.101	5.08	5.484	7.14	7.339	10.16	9.68
2	60.33	1.65	2.421	2.77	3.986	3.91	5.515	5.54	7.588	8.71	11.240	11.07	13.63
2½	73.03	2.11	3.741	3.05	5.336	5.16	8.756	7.01	11.570	9.52	15.115	14.02	20.68
3	88.90	2.11	4.578	3.05	6.546	5.49	11.448	7.62	15.484	11.13	21.369	15.24	28.68
3½	101.16	2.11	5.248	3.05	7.514	5.74	13.756	8.08	18.891	-	-	-	-
4	114.30	2.11	5.918	3.05	8.483	6.02	16.296	8.56	22.628	13.49	33.990	17.12	41.59
5	141.30	2.77	9.593	3.40	11.721	6.55	22.065	9.52	31.364	15.87	49.760	19.05	58.22
6	168.28	2.77	11.461	3.40	14.014	7.11	28.648	10.97	43.143	18.24	68.420	21.95	80.30
8	219.08	2.77	14.979	3.76	20.240	8.18	43.129	12.70	65.526	23.01	112.790	22.23	109.40
10	273.05	3.40	22.920	4.19	28.863	9.27	61.131	12.70	82.661	28.57	174.620	25.40	-
12	323.82	3.96	31.669	4.57	36.477	9.52	74.810	12.70	98.790	33.32	242.010	25.40	-
14	355.60	3.96	-	4.78	41.923	11.13	95.840	19.05	160.230	35.71	285.580	-	-
16	406.40	4.19	-	4.78	47.993	12.70	124.990	21.44	-	40.49	-	-	-
18	457.20	4.19	-	4.78	54.064	14.20	157.260	23.83	-	45.24	-	-	-
20	508.00	4.78	-	5.54	69.590	15.09	185.950	26.20	-	50.00	-	-	-

STAINLESS STEEL TUBING SERIES

Wall Thickness in mm	0.5	0.6	0.7	0.8	1.0	1.2	1.6	2.0	2.6	3.0	3.2	3.6
O.D. in mm	Weight in kg/mt											
6.0	0.069	0.081	0.093	0.104	0.125	.144	0.176	-	-	-	-	-
10.0	0.119	0.141	0.163	0.184	0.225	0.264	0.336	-	-	-	-	-
12.7	0.153	0.182	0.210	0.238	0.293	0.345	0.444	-	-	-	-	-
14.0	0.169	0.201	0.233	0.264	0.325	0.384	0.496	-	-	-	-	-
15.87	0.192	0.229	0.266	0.304	0.372	0.441	0.571	0.694	-	-	-	-
19.0	0.231	0.276	0.320	0.364	0.450	0.534	0.696	0.850	1.066	1.200	1.264	-
25.0	0.306	0.366	0.425	0.484	0.600	0.714	0.936	1.150	1.456	1.650	1.744	1.926
25.4	0.311	0.372	0.432	0.492	0.610	0.726	0.952	1.170	1.482	1.680	1.776	1.962
31.8	-	-	-	-	-	0.918	1.208	1.490	1.898	2.160	2.288	2.538
38.0	-	-	-	-	-	1.104	1.456	1.800	2.301	2.625	2.784	3.096
44.5	-	-	-	-	-	1.299	1.716	2.125	2.724	3.113	3.304	3.681
50.8	-	-	-	-	-	-	1.968	2.440	3.133	3.585	3.308	4.248
63.5	-	-	-	-	-	-	2.476	3.075	3.959	4.538	4.824	5.391
76.1	-	-	-	-	-	-	2.980	3.705	4.778	5.483	5.832	6.525
101.6	-	-	-	-	-	-	4.000	4.980	6.435	7.395	7.872	8.820
114.3	-	-	-	-	-	-	4.453	5.547	7.173	8.247	8.780	9.840
127.0	-	-	-	-	-	-	4.955	6.175	7.989	9.188	9.785	10.980
152.4	-	-	-	-	-	-	5.960	7.429	9.620	11.070	11.752	13.231



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MILD STEEL PIPES CONFIRMING TO IS : 1239 (PARR - 1)

Nominal Bore		Outside Diameter		Light		Medium		Heavy	
				Thickness	Weight	Thickness	Weight	Thickness	Weight
Inch	In mm	In	mm	mm	kg/mtr.	mm	Kg/Mtr.	mm	Kg/Mtr.
1/8"	3 mm	0.406	10.32	1.80	0.361	2.00	0.407	2.65	0.493
1/4"	6 mm	0.532	13.49	1.80	0.517	2.35	0.650	2.90	0.769
3/8"	10 mm	0.872	17.10	1.80	0.674	2.35	0.852	2.90	1.02
1/2"	15 mm	0.844	21.43	2.00	0.952	2.65	1.122	3.25	1.45
3/4"	20 mm	1.094	27.20	2.35	1.410	2.65	1.580	3.25	1.90
1"	25 mm	1.312	33.80	2.65	2.010	3.25	2.440	4.05	2.97
1.1/4"	32 mm	1.656	42.90	2.65	2.580	3.25	3.140	4.05	3.84
1.1/2"	40 mm	1.906	48.40	2.90	3.25	3.25	3.610	4.05	4.43
2"	50 mm	2.375	60.30	2.90	4.110	3.65	5.100	4.47	6.17
2.1/2"	65 mm	3.004	76.20	3.25	5.840	3.65	6.610	4.47	7.90
3"	80 mm	3.500	88.90	3.25	6.810	4.05	8.470	4.85	10.1
4"	100 mm	4.500	114.30	3.65	9.890	4.50	12.10	5.40	14.4
5"	125 mm	5.00	139.70	-	-	4.85	16.20	5.40	17.8
6"	150 mm	6.500	165.10	-	-	4.85	19.20	5.40	21.2

BIG DIAMETER ERW PIPES CONFIRMING TO IS 3589 GRADE FE 410

Wall Thickness In mm	Nominal Bore 7" NB 193.7 mm OD	Nominal Bore 8" NB 219.1 mm OD	Nominal Bore 10" NB 273 mm OD	Nominal Bore 12" NB 323.7 mm OD	Nominal Bore 14" NB 355.6 mm OD	Nominal Bore 16" NB 406.4 mm OD	Nominal Bore 18" NB 457 mm OD	Nominal Bore 20" NB 508 mm OD
kg/mtr	kg/mtr	kg/mtr	kg/mtr	kg/mtr	kg/mtr	kg/mtr	kg/mtr	kg/mtr
4.85	22.59	25.62	32.07	38.13	-	-	-	-
5.20	24.17	27.43	34.34	40.85	-	-	-	-
5.60	26.00	29.28	36.93	43.93	48.11	-	-	-
6.00	27.88	31.53	39.50	47.02	51.49	61.00	69.00	-
6.35	29.34	33.28	41.73	49.67	54.43	62.35	70.50	78.50
7.04	32.27	36.76	46.43	55.45	61.82	69.04	-	-
7.94	-	41.00	50.95	61.85	67.98	77.92	87.80	-
8.18	-	42.56	53.42	65.12	-	-	-	-
9.53	-	51.50	60.24	73.75	81.21	93.13	105.00	117.00
12.70	-	-	-	-	107.28	123.30	139.00	115.00

Tolerance on Thickness and weight : as per IS 1239

The following manufacturing tolerance shall be permitted on the tubes and sockets.

(a) Thickness

- | | |
|------------------------------|---------------------------------|
| (1) Butt welded Light tubes | + Not Limited
-8 percent |
| Medium and every heavy tubes | + Not Limited
-10 percent |
| (2) Seamless tubes | + Note Limited
-12.5 percent |

(b) Weight ;

- | | |
|---|-----------------------------|
| (1) Single tube (light series) | + 10 percent
- 8 percent |
| (2) Single tube (Medium and heavy series) | + 10 percent |

MAXIMUM PERMISSIBLE PRESSURE AND TEMPERATURE FOR TUBES WITH STEEL COUPLINGS OR SCREWED AND SOCKETED JOINTS

Nominal Bore	Maximum Permissible Pressure	Maximum Permissible Temperature
mm	N/mm ²	Kg./cm ² °C
Upto and Including 25 mm	1.20	12.24 260
Over 25 mm upto and Including 40 mm	1.03	10.50 260
Over 40 mm upto and Including 80 mm	0.86	8.77 260
Over 80 mm upto and Including 100 mm	0.69	7.04 260
	0.83	8.47 177
Over 100 mm upto and Including 125 mm	0.69	7.04 171
Over 125 mm upto and Including 150 mm	0.50	5.10 160

For tubes fitted with appropriate fittings of suitably butt welded together, the Max, permissible pressure shall be 21.00 Kg/cm² and Max, Permissible temp. 260°C

WEIGHT OF MS ANGLE, CHANNEL & BEAM

M.S. ANGLES

M.S. BEAMS

Size in mm	Weight in kgs. per foot	Weight in kgs. per Mtr.	Size in mm	Weight in kgs. per foot	Weight in kgs.				
20X20X3	0.274	0.899	100x50	2.432	7.979				
25X25X3	0.335	1.099	125x75	4.023	13.199				
25X25X5	0.548	1.099	150x75	4.571	14.997				
31X31X3	0.390	1.280	175x85	5.943	19.499				
35X35X5	0.792	2.599	200x100	7.893	25.897				
37X37X3	0.518	1.700	250x25	11.612	38.099				
40X40X3	0.548	1.798	300x140	14.782	48.500				
40X40X5	0.915	3.002	350x140	16.125	52.906				
40X40X6	1.066	3.498	400x140	19.080	62.601				
50X50X5	1.158	3.799	450x150	22.280	73.100				
50X50X6	1.372	4.502	500x180	26.730	87.700				
60X60X6	1.645	5.397	600x210	37.370	122.600				
65X65X6	1.767	5.798	M.S. CHANNELS						
65X65X8	2.346	7.697	75x40	2.172	7.126				
65X65X10	2.864	9.397	100x50	2.925	9.597				
75X75X6	2.072	6.798	125x5	3.992	13.098				
75X75X8	2.712	8.898	150x75	5.120	16.799				
75X75X10	3.352	10.998	175x75	5.973	19.597				
80X80X8	2.925	9.597	200x75	6.796	22.298				
90X90X6	2.499	8.199	250x80	9.326	30.599				
90X90X8	3.292	10.801	300x90	11.063	36.298				
90X90X10	4.084	13.400	400x100	15.270	50.300				
100X100X6	2.804	9.200	150x150x10	6.950	22.803				
100X100X8	3.687	12.097	150x150x12	8.290	27.199				
100X100X10	4.545	14.912	150x150x16	10.911	35.799				
100X100X12	5.395	17.701	150x150x20	13.441	44.100				
110X110X2	5.028	19.699	CHEQUERED PLATES						
130X130X10	6.004	6.004	GALVANISED SHEETS						
			Size in mm	Weight in kgs. per Sq. / Ft.	Weight in kgs. per Sq. / Mt.	Gauge	MM	Weight in kgs. per Sq. / Ft.	Weight in kgs. per Sq. / Mt.
			5	4.210	45.300	16	1.60	1.170	12.596
			6	4.942	53.200	18	1.20	0.936	10.072
			8	6.400	68.900	20	0.91	0.760	8.070
			10	7.860	84.600	22	0.71	0.606	6.527
			12	9.318	100.300	24	0.63	0.490	5.277
						26	0.50	0.396	4.267
						28	0.40	0.324	3.486
						30	0.31	0.266	2.866



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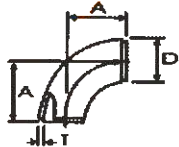


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BUTT WELDING PIPE FITTING DIMENSIONAL STANDARD ANSI B-1 6.9, B-16.28



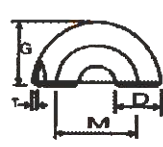
90° Elbow
long radius



45° Elbow



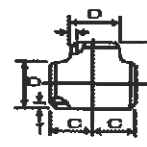
90° Elbow
short radius



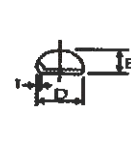
180° Return
long radius



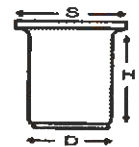
Reducer



Tee equal tee

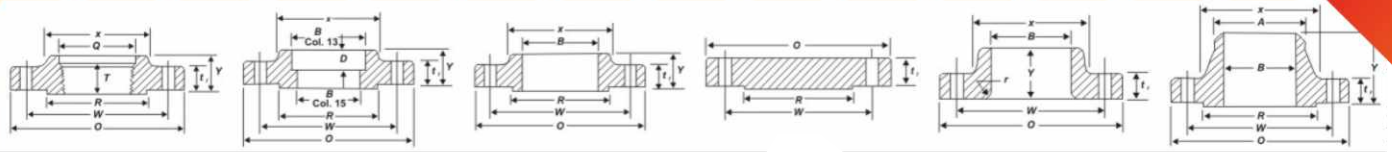


Caps



Stubends

Nominal Pipe Size		Outside Diameter	Centre to Face				Back to Face			Centre to Centre			Length "L" MSSSP43 B16.9	
Inch	mm	D	A	B	C	N	E	F	G	R	M	S	L	L
1/2	15	21.3	19.00	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	67.0	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	64.0	184.0	140.0	267.0	178.0	140.0	76.2	152.4
4	100	114.3	152.0	63.0	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	203.2
6	150	168.3	229.0	95.0	143.0	152.0	89.0	313.0	237.0	457.0	305.0	216.0	88.9	203.2
8	200	219.1	305.0	127.0	178.0	203.0	102.0	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	127.0	515.0	391.0	762.0	508.0	324.0	127.0	254
12	300	323.9	457.0	190.0	254.0	303.0	152.0	619.0	467.0	914.0	610.0	381.0	152.4	254
14	350	355.6	533.0	222.0	279.0	356.0	165.0	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	178.0	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	203.0	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	229.0	1016.0	762.0	1524.0	1016.0	584.0	152.4	305.0
22	550	559.	838.0	343.0	419.0	559.0	254.0	1118.0	838.0	1676.0	1118.0	614.40	152.4	305.0
24	600	610.0	914	381.0	432.0	610.0	267.0	1219.0	914.0	1829.0	1219.0	692.0	152.4	305.0
26	650	660.0	991.0	406.0	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	914.0	1372.0	565.0	673.0	914.0	267.0							



Threaded

Socket Welding
(1/2" to 2 1/2" Only)

Slip-on Welding

Blind

Lapped

Welding Neck

DIMENSIONS OF CLASS 150 FLANGES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Nominal Pipe Size NPS	Outside Diameter of Flange O	Thickness of Flange, Min., t1	Drilling				Diameter of Hub, X	Hub Diameter Begin- ning of Chamfer Welding Neck A	Length Thru Hub			Threaded/ Length Threaded Min. B	Bore			Comer Radius of Bore Lapped Flange and Pipe, R	Depth of Socket D	Diameter of RF, R
			Thickness Lap Joint Min., t1	Diameter of Bolt Circle W	Diameter of Bolt Holes	Numbers of Bolts			Threaded /Slip-On /Socket Welding, Y	Lapped Y	Welding, Y		Slip-On/ Socket Welding, Min. B	Lapped Min. B	Welding Neck/ Socket Welding B (Note(2))			
1/2	90	9.6	11.2	60.3	15.9	4	30	21.3	14	16	46	16	22.2	22.9	15.8	3	10	34.9
3/4	100	11.2	12.7	69.9	15.9	4	38	26.7	14	16	51	16	27.7	28.2	20.9	3	11	42.9
1	110	12.7	14.3	79.4	15.9	4	49	33.4	16	17	54	17	34.5	34.9	26.6	3	13	50.8
1 1/4	115	14.3	15.9	88.9	15.9	4	59	42.2	19	21	56	21	43.2	43.7	35.1	5	14	63.5
1 1/2	125	15.9	17.5	98.4	15.9	4	65	48.3	21	22	60	22	49.5	50.0	40.9	6	16	73.0
2	150	17.5	19.1	120.7	19.1	4	78	60.3	24	25	62	25	61.9	62.5	52.5	8	17	92.1
2 1/2	180	20.7	22.3	139.7	19.1	4	90	73.0	27	29	68	29	74.6	75.4	62.7	8	19	104.8
3	190	22.3	23.9	152.4	19.1	4	108	88.9	29	30	68	30	90.7	91.4	77.9	10	21	127.0
3 1/2	215	22.3	23.9	177.8	19.1	8	122	101.6	30	32	70	32	103.4	104.1	90.1	10	-	139.7
4	230	22.3	23.9	190.5	19.1	8	135	114.3	32	33	75	33	116.1	116.8	102.9	11	-	157.2
5	255	22.3	23.9	215.9	22.3	8	164	141.3	35	36	87	36	143.8	144.4	128.2	11	-	185.7
6	280	23.9	25.4	241.3	22.3	8	192	168.3	38	40	87	40	170.7	171.4	154.1	13	-	215.9
8	345	27.0	28.6	298.2	22.3	8	246	219.1	43	44	100	44	221.5	222.2	202.7	13	-	269.9
10	4.5	28.6	30.2	362.0	25.4	12	3.5	273.0	48	49	100	49	276.2	277.4	254.6	13	-	323.8
12	845	3.2	31.8	431.8	25.4	12	365	323.8	54	55	113	55	327.0	328.2	304.8	13	-	381.0
14	535	33.4	35.0	476.3	28.6	12	400	355.6	56	79	125	57	359.2	360.2	To be Specified by Purchaser	13	-	412.8
16	595	35.0	36.6	539.8	28.6	16	457	406.4	62	87	125	64	410.5	411.2		13	-	469.9
18	635	38.1	39.7	577.9	31.8	16	505	457.0	67	97	138	68	461.8	462.3		13	-	533.4
20	700	41.3	42.9	635.0	31.8	20	559	508.0	71	103	143	73	513.1	514.4		13	-	584.2
24	815	46.1	47.7	749.3	35.0	20	663	610.0	81	111	151	83	616.0	616.0		13	-	692.2

DIMENSIONS OF CLASS 300 FLANGES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Nominal Pipe Size NPS	Outside Diameter of Flange O	Thickness of Flange, Min., t1	Drilling				Diameter of Hub, X	Hub Diameter Begin- ning of Chamfer Welding Neck A	Length Thru Hub			Threaded/ Length Threaded Min. B	Bore			Comer Radius of Bore Lapped Flange and Pipe, R	Counter Bore Threaded FLANGE Min Q	Depth of Socket D	Diameter of RF, R
			Thickness Lap Joint Min., t1	Diameter of Bolt Circle W	Diameter of Bolt Holes	Numbers of Bolts			Threaded /Slip-On /Socket Welding, Y	Lapped Y	Welding, Y		Slip-On/ Socket Welding, Min. B	Lapped Min. B	Welding Neck/ Socket Welding B (Note(2))				
1/2	95	12.7	14.3	66.7	15.9	4	38	21.3	21	22	51	16	22.2	22.9	15.8	3	23.6	10	34.9
3/4	115	14.9	15.9	82.6	19.1	4	48	26.7	24	25	56	16	27.7	28.2	20.9	3	29.0	11	42.9
1	125	15.9	17.5	88.9	19.1	4	54	33.4	25	27	60	18	34.5	34.9	26.6	3	35.8	13	50.8
1 1/4	135	17.5	19.1	98.4	19.1	4	64	42.2	25	27	64	21	43.2	43.7	35.1	5	44.4	14	63.5
1 1/2	155	19.1	20.7	114.3	22.2	4	70	48.3	29	30	67	23	49.5	50.2	40.9	6	50.3	16	73.0
2	165	20.7	22.3	127.0	19.0	4	84	60.3	32	33	68	29	61.9	62.5	52.5	8	63.5	17	92.1
2 1/2	190	23.9	25.4	149.2	22.3	4	100	73.0	37	38	75	32	74.6	75.4	62.7	8	76.2	19	104.8
3	210	27.0	28.6	168.3	22.3	4	117	88.9	41	43	78	32	90.7	91.4	77.9	10	92.2	21	127.0
3 1/2	230	28.6	30.2	184.2	22.3	8	133	101.6	43	44	79	37	103.4	104.1	90.1	10	104.9	-	139.7
4	255	30.2	31.8	200.0	22.3	8	146	114.3	46	48	84	37	116.1	116.1	102.3	11	117.6	-	157.2
5	280	33.4	35.0	235.0	22.3	8	178	141.3	49	51	97	43	143.8	144.4	128.2	11	144.4	-	185.7
6	320	35.0	36.6	269.9	22.3	8	206	168.3	51	52	97	47	170.7	171.4	154.1	13	171.1	-	215.9
8	380	39.7	41.3	330.2	25.4	8	260	219.1	60	62	110	51	221.5	222.2	202.7	13	222.2	-	269.9
10	445	46.1	47.7	387.4	28.6	12	321	273.0	65	95	116	56	276.2	277.4	254.6	13	276.2	-	323.8
12	520	49.3	50.8	450.8	31.8	12	375	323.8	71	102	129	61	327.0	328.2	304.8	13	328.3	-	381.0
14	585	52.4	54.0	514.4	31.8	12	425	355.6	75	111	141	64	359.2	360.2	To be Specified by Purchaser	13	360.4	-	412.8
16	650	55.6	57.2	571.5	35.0	16	483	406.4	81	121	144	69	410.5	411.2		13	411.2	-	469.9
18	710	58.8	60.4	628.6	35.0	16	533	457.0	87	130	157	70	461.8	462.3		13	462.0	-	533.4
20	775	62.0	63.5	685.8	35.0	20	587	508.0	94	140	160	74	513.1	514.4		13	512	-	584.2
24	915	68.3	69.9	812.8	41.3	20	702	610.0	105	152	167	83	616.0	616.0		13	614.4	-	692.2

NOTE : (1) Height of RE 2mm

(2) Dimensions column 16 Correspond to the inside diameters of pipe as given in ASME B36.10M for Standard Wall Pipe, Thickness of Standard Wall is the same as Schedule 40 in Size NPS 10 and smaller. These bore size are furnished unless Otherwise specified by the Purchaser.



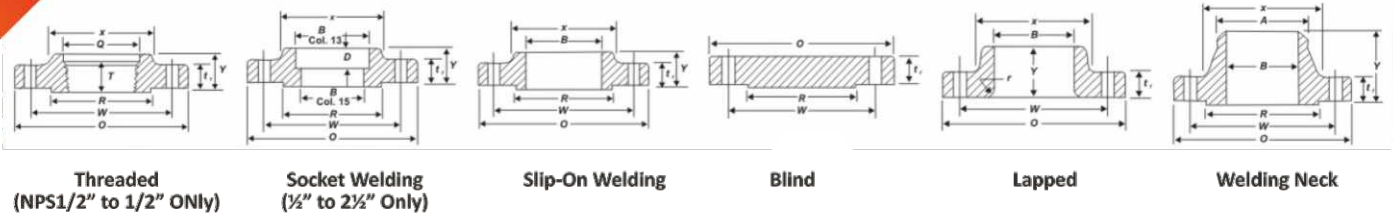
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DIMENSIONS OF CLASS 600 FLANGES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Nominal Pipe Size NPS	Outside Diameter of Flange O	Thickness of Flanges Min f	Diameter of Hub, X	Drilling			Hub Diameter Begin- ning of Chamfer Welding Neck A	Length Thru Hub			Threaded / Length Threaded Flange Min., T	Bore			Corner Radius of Bore of Lapped Flange and Pipe, r	Counter- Bore Threaded Flange Min., Q	Diameter of RF R	Socket Weld D
				Diameter of Bolt Circle W	Diameter of Bolt Holes in	Number of Bolts		Threaded/ Slip-On Y	Lapped, Y	Welding Neck Y		Slip-On Min., B	Lapped Min., B	Welding Neck B				
1/2	95	14.3	38	66.7	15.9	4	21.3	22	22	52	16	22.2	22.9		3	23.6	10	34.9
3/4	115	15.9	48	82.6	19.1	4	26.7	25	25	57	16	27.7	28.2		3	29.6	11	42.9
1	125	17.5	54	88.9	19.1	4	33.4	27	27	62	18	34.5	34.9		3	35.8	13	50.8
1 1/4	135	20.7	64	98.4	19.1	4	42.2	29	29	67	21	43.2	43.7		5	44.4	14	63.5
1 1/2	155	22.3	70	114.3	22.3	4	48.3	32	32	70	23	49.5	50.0		6	50.6	16	73.0
2	165	25.4	84	127.0	19.1	8	60.3	37	37	73	29	61.9	62.5		8	63.5	17	92.7
2 1/2	190	28.6	100	149.2	22.3	8	73.0	41	41	79	32	74.6	75.4		8	76.2	19	104.8
3	210	31.8	117	168.3	22.3	8	88.9	46	46	83	35	90.7	91.4		10	92.2	21	127.0
4	230	35.0	133	184.2	25.4	8	101.6	49	49	86	40	103.4	104.1		10	104.9	-	139.7
5	330	44.5	189	266.7	28.6	8	141.36	60	60	114	48	143.8	144.4	To be Specified by Purchaser	22	144.4	-	185.7
6	355	47.7	222	292.1	28.6	12	168.3	67	67	117	51	170.7	171.4		13	171.4	-	215.9
8	420	55.6	273	349.2	31.8	12	219.1	76	76	133	58	221.5	222.2		13	222.2	-	269.9
10	510	63.5	343	431.8	35.0	16	273.0	86	111	152	66	276.2	277.4		13	276.2	-	323.8
12	560	66.7	400	489.0	35.0	20	323.8	92	117	156	70	327.0	328.2		13	328.6	-	381.0
14	605	69.9	432	527.0	38.1	20	355.6	94	94	165	74	359.2	360.2		13	360.4	-	412.8
16	605	76.2	495	603.0	41.3	20	406.4	106	140	178	48	410.5	411.2		13	411.2	-	469.9
18	745	82.6	546	654.0	44.5	20	457.0	117	152	184	80	461.8	462.3		13	462.0	-	533.4
20	815	88.9	610	723.9	44.5	24	508.0	127	165	190	83	513.1	514.4		13	512.8	-	584.2
24	940	101.6	718	838.2	50.8	24	610.0	140	184	203	93	616.0	616.0		13	614.4	-	692.2

Note : (1) Height of 7mm

DIMENSIONS OF CLASS 900 FLANGES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Nominal Pipe Size NPS	Outside Diameter of Flange O	Thickness of Flanges Min f	Diameter of Hub, X	Drilling			Hub Diameter Begin- ning of Chamfer Welding Neck A	Length Thru Hub			Threaded / Length Threaded Flange Min., T	Bore			Corner Radius of Bore of Lapped Flange and Pipe, r	Counter- Bore Threaded Flange Min., Q	Diameter of RF R	Socket Weld D
				Diameter of Bolt Circle W	Diameter of Bolt Holes in	Number of Bolts		Threaded/ Slip-On Y	Lapped, Y	Welding Neck Y		Slip-On Min., B	Lapped Min., B	Welding Neck B				
1/2	120	22.2	38	82.6	22.3	4	21.3	32	32	60	23	22.2	22.2		3	23.6	10	34.9
3/4	130	25.4	44	88.9	22.3	4	26.7	35	35	70	26	27.7	27.7		3	29.6	11	42.9
1	150	28.6	52	101.6	25.4	4	33.4	41	41	73	29	34.5	34.5		3	35.8	13	50.8
1 1/4	160	28.6	64	111.1	25.4	4	42.2	41	41	73	31	43.2	43.2		5	44.4	14	63.5
1 1/2	180	31.8	70	123.8	28.6	4	48.3	44	44	83	32	49.5	49.5		6	50.6	16	73.0
2	215	38.1	105	165.1	25.4	8	60.3	57	57	102	39	61.9	61.9		8	63.5	17	92.7
2 1/2	215	41.3	124	190.5	28.6	8	73.0	64	64	105	48	74.6	74.6		8	76.2	19	104.8
3	240	38.1	127	190.5	25.4	8	88.9	54	54	102	42	90.7	90.7		10	92.2	21	127.0
4	290	44.6	159	235.0	31.8	8	101.6	70	70	114	48	103.4	103.4		10	104.9	21	139.7
5	350	50.8	190	279.4	35.0	8	141.36	79	79	127	54	143.8	143.8	To be Specified by Purchaser	22	144.4	185.7	
6	380	55.6	235	317.5	31.8	12	168.3	86	86	140	58	170.7	170.7		13	171.4	215.9	
8	470	63.5	298	393.7	38.1	12	219.1	114	114	162	64	221.5	221.5		13	222.2	269.9	
10	545	69.9	368	449.9	38.1	16	273.0	127	127	184	72	276.2	276.2		13	276.2	323.8	
12	610	79.4	419	533.4	38.1	20	323.8	143	143	200	77	327.0	327.0		13	328.6	381.0	
14	640	85.8	451	558.8	41.3	20	355.6	156	156	213	89	359.2	359.2		13	360.4	412.8	
16	705	88.9	508	616.0	44.5	20	406.4	165	165	216	86	410.5	410.5		13	411.2	469.9	
18	785	101.6	565	686.8	50.8	20	457.0	190	190	229	89	461.8	461.8		13	462.0	533.4	
20	855	108.0	622	749.3	54.0	24	508.0	210	210	248	97	513.1	513.1		13	512.8	584.2	
24	1,040	139.7	749	901.7	66.7	24	610.0	267	267	292	102	616.0	616.0		13	614.4	692.2	

Note : (1) Height of 7mm

DIMENSION OF FLANGES AS PER TABLE BS - 10

TABLE D

FOR WORKING STEAM PRESSURE UPTO 50 LBS PER SQ. INCH

Nominal Pipe Size	O.D. of Pipe	O.D.	P.C. D.	No. of Bolt	Dia of Bolt	Thickness
1 / 2"	21.3	95.3	66.7	4	12.7	4.8
3 / 4"	26.7	101.3	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	87.3	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	145.1	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	235.6	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	469.6	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 UPTO 100 LBS PER SQ. INCH

Nominal Pipe Size	O.D. of Pipe	O.D.	P.C. D.	No. of Bolt	Dia of Bolt	Thickness
1 / 2"	21.3	95.3	66.7	4	12.7	6.4
3 / 4"	26.7	101.3	73.0	4	12.7	6.4
1"	33.4	114.3	82.6	4	12.7	7.1
1-1/4"	42.2	120.7	87.3	4	12.7	7.9
1-1/2"	48.3	133.4	98.4	4	12.7	8.7
2"	60.3	152.4	114.3	4	15.9	9.5
2-1/2"	73.0	165.1	127.0	4	15.9	10.3
3"	88.9	184.2	145.0	4	15.9	11.1
3-1/2"	101.6	203.2	165.1	8	15.9	11.9
4"	114.3	215.9	177.8	8	15.9	12.7
5"	141.3	254.0	209.6	8	15.9	14.3
6"	168.3	279.4	235.6	8	19.1	17.5
7"	190.5	304.8	260.4	8	19.1	19.1
8"	219.1	336.6	292.1	8	19.1	19.1
9"	244.5	368.3	323.9	12	19.1	20.6
10"	273.0	406.4	355.6	12	19.1	22.2
12"	323.9	457.2	406.4	12	22.2	25.4
14"	355.6	527.1	469.6	12	22.2	25.4
16"	406.4	577.9	520.7	12	22.2	25.4
18"	457.2	641.4	584.2	16	22.2	28.6
20"	508.0	704.9	641.0	16	22.2	31.8
24"	609.6	825.5	755.7	16	25.4	38.1

TABLE F FOR WORKING STEAM PRESSURE

ABOVE 100 LBS AND UPTO 150 LBS PER SQ. INCH

Nominal Pipe Size	O.D. of Pipe	O.D.	P.C. D.	No. of Bolt	Dia of Bolt	Thickness
1 / 2"	21.3	95.3	66.7	4	12.7	9.5
3 / 4"	26.7	101.3	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	139.7	104.8	4	15.9	12.7
2"	60.3	165.1	127.0	4	15.9	15.9
2-1/2"	73.0	184.2	145.0	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	279.4	235.0	8	19.1	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	25.0
9"	244.5	406.4	355.6	12	22.2	25.0
10"	273.0	431.8	381.0	12	22.2	25.0
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 LBS AND UPTO 250 LBS PER SQ. INCH

Nominal Pipe Size	O.D. of Pipe	O.D.	P.C. D.	No. of Bolt	Dia of Bolt	Thickness
1 / 2"	21.3	114.3	82.6	4	15.9	12.7
3 / 4"	26.7	114.3	82.6	4	15.9	12.7
1"	33.4	120.7	87.3	4	15.9	14.3
1-1/4"	42.2	133.4	98.4	4	15.9	17.0
1-1/2"	48.3	139.7	104.8	4	15.9	17.0
2"	60.3	165.1	127.0	4	15.9	19.1
2-1/2"	73.0	184.2	145.0	8	15.9	19.1
3"	88.9	203.0	165.1	8	15.9	22.2
3-1/2"	101.6	215.9	177.8	8	15.9	22.2
4"	114.3	228.6	190.5	8	15.9	25.4
5"	141.3	279.4	235.0	8	19.1	28.6
6"	168.3	304.8	260.4	12	19.1	28.6
7"	190.5	336.6	292.1	12	19.1	31.8
8"	219.1	368.3	323.9	12	19.1	31.8
9"	244.5	406.4	355.6	12	22.2	34.9
10"	273.0	431.8	381.0	12	22.2	34.9
12"	323.9	489.0	438.2	16	22.2	38.1
14"	355.6	552.5	495.3	16	25.4	41.3
16"	406.4	609.6	552.5	20	25.4	44.5
18"	457.2	673.1	609.6	20	28.6	47.6
20"	508.0	736.6	673.1	24	28.6	50.8
24"	609.6	850.9	781.1	24	31.8	57.2

NOTE : FOR 12.7 MM AND 15.87 BOLTS DIA THE DIAMETERS OF THE HOLES WILL BE 1.58MM LARGER AND FOR 19.01 AND ABOVE THE HOLE DIA WILL BE 3.17 LARGER.



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Male Adaptor

S.S. TC FITTINGS



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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



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Reducing Union



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Female Connector



Male Adaptor

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ASTM SPECIFICATION	ALLOWABLE ALLOWABLE OUTSIDE DIAMETER VARIATION MM VARIATION		WALL THICKNESS	TESTING
ASTM 213	Nominal Diameter	OVER UNDER	%	
Seamless Feritic and Austenitic tubes	Under 25.4mm	.1016 .1016	+ 20% -0	Refer to ASTM A - 450
	25.4 - 38.1 inclu	.1524 .1525	+20% -0	
	38.1 - 50.8 exclu	.2032 .2032	+22% -0	
	50.8 - 63.5 exclu	.254 .254	+22% -0	
	63.5 - 76.2 exclu	.3048 .3048	+22% -0	
	76.2 - 101.6 inclu	.381 .381	+22% -0	
ASTM - 249 Welded Heat Exchanger and Condenser tubes	Under 25.4 mm 25.4 - 38.1 inclu 38.1 - 50.8 exclu 50.8 - 63.5 exclu 63.5 - 76.2 exclu 76.2 - 101.6 inclu	.1016 .1016 .1524 .1524 .2032 .2032 .254 .254 .3048 .3048 .381 .381	± 10% ± 10% ± 10% ± 10% ± 10%	Refer to ASTM A - 450
ASTM - 269 Seamless and Welded Austenitic S.S. Tubes	Up to 12.7 mm 25.7 to 38.1 mm 38.1 to 88.9 mm 88.9 to 139.7 mm 139.7 to 203.2 mm	0.13 0.13 0.13 0.13 0.25 0.25 0.38 0.38 0.76 0.76	± 15% ± 10% ± 10% ± 10% ± 10% S	Refer to ASTM A - 450
ASTM - 312 Seamless and Welded Austenitic Pipe	13.72 - 48.26 mm 60.33 - 114.3 141.3 - 219.08 169.28 - 219.08 273.05 - 373.85	± 0.04 -0.79 ± 0.79 -0.79 ± 0.59 -0.79 ± 0.59 -0.79 ± 2.38 -0.79	-12.5%	Refer to ASTM A - 530
ASTM - 358 Welded Austenitic pipe	219.08 750 mm	± 0.5%	3.0 mm	Refer to ASTM A - 530
ASTM - 409 Welded Austenitic pipe	335.6 750 mm	± 22% -0 ± 22%	-0.46 mm	Refer to ASTM A - 530



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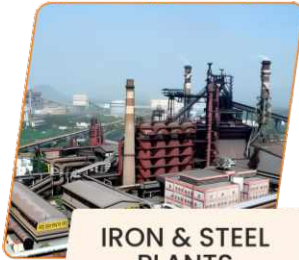


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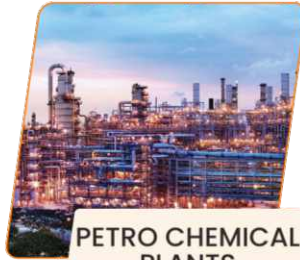


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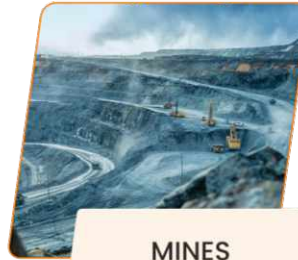
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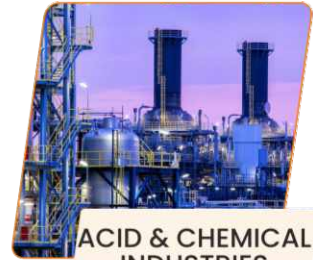
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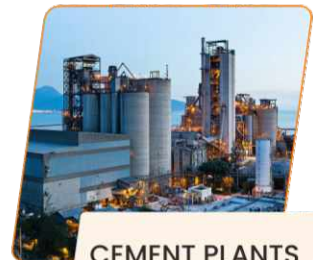
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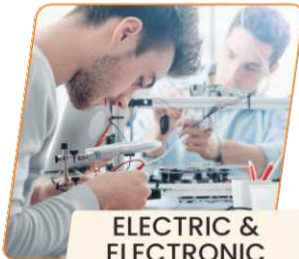
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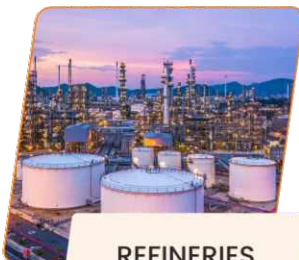
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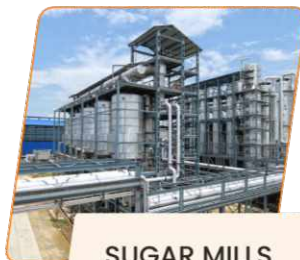
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