OM POONAM

METAL OVERSEAS

AN ISO 9001:2015 CERTIFIED COMPANY

MANUFACTURING, TRADING, STOCKING, IMPORT, EXPORT, AND SUPPLY OF : Stainless Steel (SS), Alloy Steel, Copper, Brass, Aluminium, Tin, Zinc, Cobalt, Cadmium, Nickel, Molybdenum, Mercury, Bismuth, Lead, Titanium, Inconel, Hastelloy, Monel, Duplex, And Super Duplex Products, Sheets, Plates (Patta), Strips (Patti), Coils, Pipes, Tubes, Fittings, Flanges, Fasteners, SS And PVC Furniture, Structural Materials, Industrial Hardware, And Other Ferrous And Non-ferrous Metal Products

www.ompoonammetaloverseas.com exportompmo@gmail.com



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About Us

Welcome to **OM POONAM METAL OVERSEAS**, a trusted name in the metal industry, committed to delivering quality products and reliable solutions to customers across domestic and international markets. With a strong focus on excellence, consistency, and customer satisfaction, we have established ourselves as a dependable partner for the Piping, Tubing and Metal Products industry. Our extensive range includes premium-grade materials in Stainless Steel, Carbon Steel, Alloy Steel, Duplex & Super Duplex Steel, Nickel Alloys and Non Ferrous Metals, available in various forms and specifications to meet the requirements of multiple industries.

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 OM POONAM METAL OVERSEAS

At **OM POONAM METAL OVERSEAS**, 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 enhanceproduct strength and performance.

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







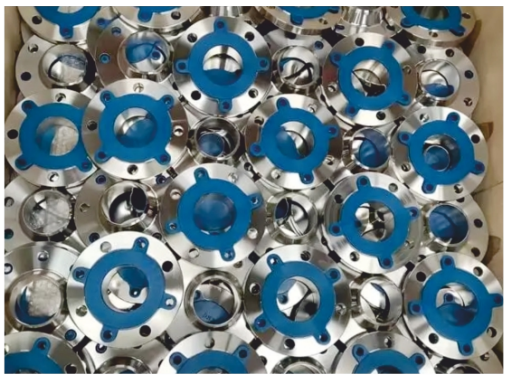
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Transportation and Logistics at

OM POONAM METAL OVERSEAS

At **OM POONAM METAL OVERSEAS**, 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.














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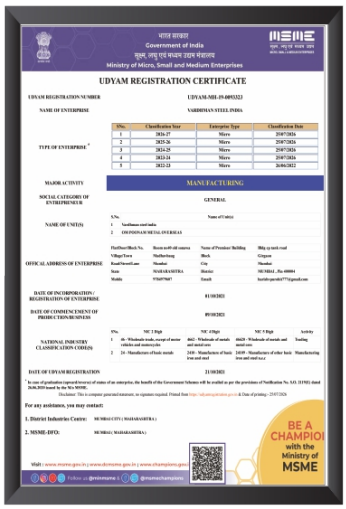
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BRANDS WITH US

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 buttweld, socketweld, ferrule, and TC fittings, ensuring a seamless integration into various systems. Moreover, our range extends to high-quality flanges that meet stringent industry standards.

OUR CERTIFICATE









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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 & Super 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, ASTMA 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)

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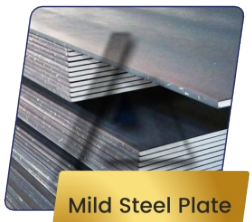
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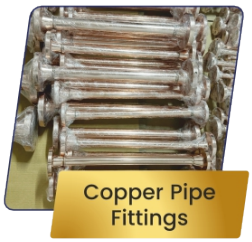

Copper Tubes & Pipes


Angles


Channels


Stainless Steel Plate


Mild Steel Plate


Copper Pipe Fittings


Stainless Steel Round Bars

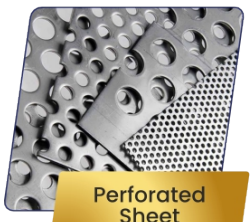

Stainless Steel Square Bars


Stainless Steel Pipes


Mild Steel Pipes


Stainless Steel Hex Bars


Wire Bar


Perforated Sheet

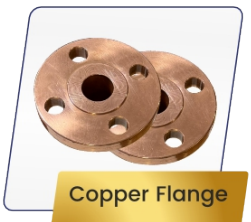

Stainless Steel Flanges


Mild Steel Flanges


Valves


Diary Fittings


Ferrule Fittings


Copper Flange


Stainless Steel Fittings


HEX BOLT


ALLEN CAP


ALLEN C.S.K.


ANTITHEFT BOLT


BUTTON HEAD


CHEESE HEAD SCREW


CSK SLOTTED SCREW


ROUND HEAD SCREW


CSK PHILLIPS


PAN PHILLIPS


FLANGE BOLT


WING BOLT


DOME BOLT


CARRIAGE BOLT


GRUB SCREW

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METAL OVERSEAS

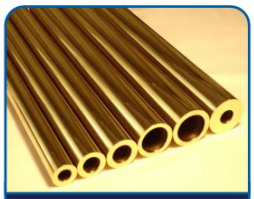
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BRASS NUT BOLT


BRASS BOLT


BRASS STUD


BRASS FFITTINGS


BRASS PIPE


MS STUD


MS NUT


MS BOLT


MS FITTINGS


MS FORGE FITTINGS


SS STUD


SDS PAN PHILLIPS


SDS HEX HEAD


J BOLT


WELD STUDS


CLINCH STUDS


HEX NUT

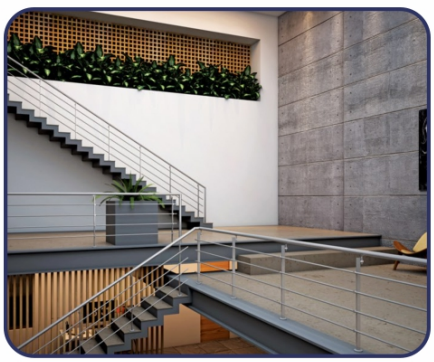

DOME NUT


SQUARE NUT


ANTITHEFT NUT













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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		Outside in Inch.	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m
Inch.	DN															
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	-	-
1¼"	32	42.2	1.65	1.65	2.77	2.69	-	-	3.00	2.910	-	-	3.56	3.39	-	-
1½"	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	-	-
2½"	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	-	-
3½"	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 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/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/t)

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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	0532	13.49	1.80	0.517	2.35	0.650	2.90	0.769
3/8"	10 mm	0.872	17.10	1.80	0674	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 be21.00 Kg/cm^2 and Max, Permissible temp. 260°C

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WEIGHT OF MS ANGLE, CHANNEL & BEAM

M.S. ANGLES

Size in mm	Weight in kgs. per feet	Weight in kgs. per Mtr.
20X20X3	0.274	0.899
25X25X3	0.335	1.099
25X25X5	0.548	1.099
31X31X3	0.390	1.280
35X35X5	0.792	2.599
37X37X3	0.518	1.700
40X40X3	0.548	1.798
40X40X5	0.915	3.002
40X40X6	1.066	3.498
50X50X5	1.158	3.799
50X50X6	1.372	4.502
60X60X6	1.645	5.397
65X65X6	1.767	5.798
65X65X8	2.346	7.697
65X65X10	2.864	9.397
75X75X6	2.072	6.798
75X75X8	2.712	8.898
75X75X10	3.352	10.998
80X80X8	2.925	9.597
90X90X6	2.499	8.199
90X90X8	3.292	10.801
90X90X10	4.084	13.400
100X100X6	2.804	9.200
100X100X8	3.687	12.097
100X100X10	4.545	14.912
100X100X12	5.395	17.701
110X110X2	5.028	19.699
130X130X10	6.004	6.004

M.S. BEAMS

Size in mm	Weight in kgs. per feet	Weight in kgs.
100x50	2.432	7.979
125x75	4.023	13.199
150x75	4.571	14.997
175x85	5.943	19.499
200x100	7.893	25.897
250x25	11.612	38.099
300x140	14.782	48.500
350x140	16.125	52.906
400x140	19.080	62.601
450x150	22.280	73.100
500x180	26.730	87.700
600x210	37.370	122.600

M.S. CHANNELS

75x40	2.172	7.126
100x50	2.925	9.597
125x5	3.992	13.098
150x75	5.120	16.799
175x75	5.973	19.597
200x75	6.796	22.298
250x80	9.326	30.599
300x90	11.063	36.298
400x100	15.270	50.300
150x150x10	6.950	22.803
150x150x12	8.290	27.199
150x150x16	10.911	35.799
150x150x20	13.441	44.100

CHEQUERED PLATES

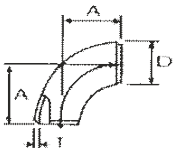
Size in mm	Weight in kgs. per Sq. / Ft.	Weight in kgs. per Sq. / Mt.
5	4.210	45.300
6	4.942	53.200
8	6.400	68.900
10	7.860	84.600
12	9.318	100.300

GALVANISED SHEETS

Gauge	MM	Weight in kgs. per Sq. / Ft.	Weight in kgs. per Sq. / Mt.
16	1.60	1.170	12.596
18	1.20	0.936	10.072
20	0.91	0.760	8.070
22	0.71	0.606	6.527
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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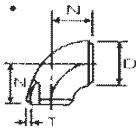
BUTT WELDING PIPE FITTING DIMENSIONAL STANDARD ANSI B-1 6.9, B-16.28



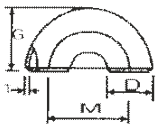
90° Elbol long radius



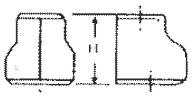
45° Elbow



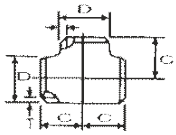
90° Elbow short radius



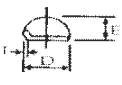
180° Return long radius



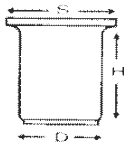
Reducer



Tee equal tee

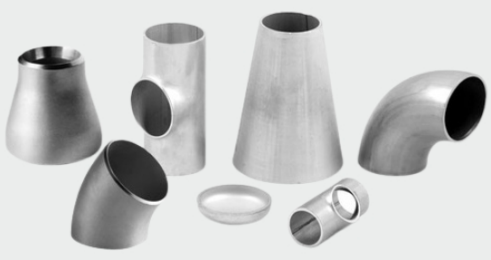


Caps



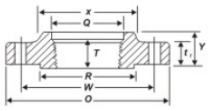
Stubends

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							

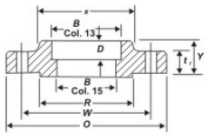


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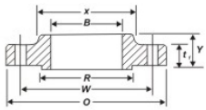
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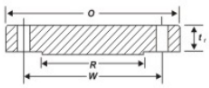
Threaded



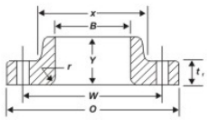
Socket Welding
(½" to 2½" Only)



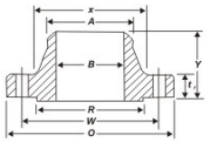
Slip-on Welding



Blind



Lapped



Welding Neck

DIMENSIONS OF CLASS 150 FLANGES

Nominal Pipe Size NPS	Outside Diameter of Flange O	Thickness of Flange, Min., T1	Drilling				Diameter of Hub, X	Hub Diameter Beginning of Chamfer Welding Neck A	Lenght Thru Hub			Threaded/Lenght Threaded Min. B	Bore			Corner Radius of Bore Lapped Flange and Pipe, R	Depth of Socket D	Diameter of RF, R
			Thickness Lap Joint Min., t1	Diameter of Blot Circle W	Diameter of Blot Holes	Numbers of Blots			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 ¼	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
1½	125	15.9	17.5	984	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
2½	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
3½	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	406	28.6	30.2	362.0	25.4	12	355	273.0	48	49	100	49	276.2	277.4	254.6	13	–	323.8
12	445	32.0	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

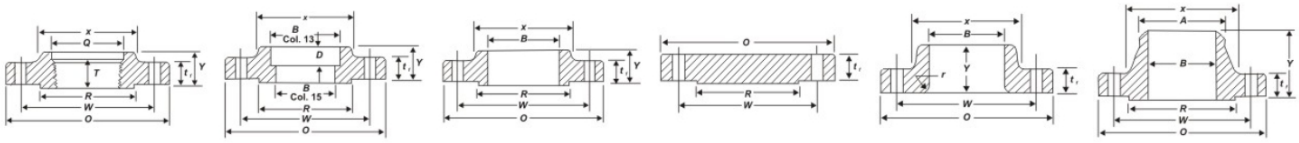
DIMENSIONS OF CLASS 300 FLANGES

Nominal Pipe Size NPS	Outside Diameter of Flange O	Thickness of Flange, Min., T1	Thickness Lap Joint Min., t1	Drilling			Diameter of Hub, X	Hub Diameter Beginning of Chamfer Welding Neck A	Lenght Thru Hub			Threaded/Lenght Threaded Min. B	Bore			Corner Radius of Bore Lapped Flange and Pipe, R	Counter Bore Threaded FLANGE Min Q	Depth of Socket D	Diameter of RF, R
				Diameter of Blot Circle W	Diameter of Blot Holes	Numbers of Blots			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
1¼	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 ½	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	207	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 ½	190	23.9	25.4	149.2	22.3	4	100	73.0	37	38	75	32	74.6	754	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
3½	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 the pipe as given in ASME B36.10M for Standard Wall Pipe, The Thickness of the Standard Wall is the same as Schedule 40 in Size NPS 10 and smaller. These bore sizes are furnished unless otherwise specified by the Purchaser.

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Threaded | Socket Welding (½" to 2½" Only) | Slip-on Welding | Blind | Lapped | Welding Neck

DIMENSIONS OF CLASS 600 FLANGES

Nominal Pipe Size NPS	Outside Diameter of Flange O	Thickness of Flanges Min F	Diameter of Hub, X	Drilling			Hub Diameter Beginning 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				
½	95.5	14.3	38	66.7	15.9	4	21.3	22	22	52	16	22.2	22.9	To be Specified by Purchaser	3	23.6	10	34.9
3/4	117.5	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	124.0	17.5	54	88.9	19.1	4	33.4	27	27	62	18	34.5	34.9		3	35.8	13	50.8
1¼	133.5	20.7	64	98.4	19.1	4	42.2	29	29	67	21	43.2	43.7		5	44.4	14	63.5
1½	155.5	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	165.0	25.4	84	127.0	19.1	8	60.3	37	37	73	29	61.9	62.5		8	63.5	17	92.1
2½	190.5	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	209.5	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	273.0	38.1	152	215.9	25.4	8	114.3	54	54	102	42	116.1	116.8		11	117.6	–	157.2
5	330.0	44.5	189	266.7	28.6	8	141.3	60	60	114	48	143.8	144.4		11	144.4	–	185.7
6	355.5	47.7	222	292.1	28.6	12	168.3	67	67	117	51	170.7	171.4		13	171.4	–	215.9
8	419.0	55.6	273	349.2	31.8	12	219.1	76	76	133	58	221.5	222.2		13	222.2	–	269.9
10	508.0	63.5	343	431.8	35.0	16	273.0	86	111	152	66	276.2	277.4		13	276.2	–	323.8
12	559.0	66.7	400	489.0	35.0	20	323.8	92	117	156	70	327.0	328.2		13	328.6	–	381.0
14	603.5	69.9	432	527.0	38.1	20	355.6	94	127	165	74	359.2	360.2		13	360.4	–	412.8
16	686.0	76.2	495	603.0	41.3	20	406.4	106	140	178	78	410.5	411.2		13	411.2	–	469.9
18	743.0	82.6	546	654.0	44.5	20	457.0	117	152	184	80	461.8	462.3		13	462.0	–	533.4
20	813.0	88.9	610	723.9	44.5	24	508.0	127	165	190	83	513.1	514.4		13	512.8	–	584.2
24	940.0	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

Nominal Pipe Size NPS	Outside Diameter of Flange O	Thickness of Flanges Min F	Diameter of Hub, X	Drilling			Hub Diameter Beginning 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	120.7	22.3	38	82.6	22.3	4	21.3	32	32	60	23	22.2	22.9	To be Specified by Purchaser	3	23.6	34.9	10
3/4	130.0	25.4	44	88.9	22.3	4	26.7	35	35	70	26	27.7	28.2		3	29.0	42.9	11
1	149.4	28.6	52	101.6	25.4	4	33.4	41	41	73	29	34.5	34.9		3	35.8	50.8	13
1¼	158.8	28.6	64	111.1	25.4	4	42.2	41	41	73	31	43.2	43.7		5	44.4	63.5	14
1½	177.8	31.8	70	123.8	28.6	4	48.3	44	44	83	32	49.5	50.0		6	50.6	73.0	16
2	215.9	38.1	105	165.1	25.4	8	60.3	57	57	102	39	61.9	62.5		8	63.5	92.1	17
2½	244.3	41.3	124	190.5	28.6	8	73.0	64	64	105	48	74.6	75.4		8	76.2	104.8	19
3	241.3	38.1	127	190.5	25.4	8	88.9	54	54	102	42	90.7	91.4		10	92.2	127.0	–
4	292.1	44.5	159	235.0	31.8	8	114.3	70	70	114	48	116.1	116.8		11	117.6	157.2	–
5	349.3	50.8	190	279.4	35.0	8	141.3	79	79	127	54	143.8	144.4		11	144.4	185.7	–
6	381.0	55.6	235	317.5	31.8	12	168.3	86	86	140	58	170.7	171.4		13	171.4	215.9	–
8	469.9	63.5	298	393.7	38.1	12	219.1	102	114	162	64	221.5	222.2		13	222.2	269.9	–
10	546.1	69.9	368	469.9	38.1	16	273.0	108	127	184	72	276.2	277.4		13	276.2	323.8	–
12	609.5	79.4	419	533.4	38.1	20	323.8	117	143	200	77	327.0	328.2		13	328.6	381.0	–
14	641.4	85.8	451	558.8	41.3	20	355.6	130	156	213	89	359.2	360.2		13	360.4	412.8	–
16	704.9	88.9	508	616.0	44.5	20	406.4	133	165	216	86	410.5	411.2		13	411.2	469.9	–
18	787.4	101.6	565	685.8	50.8	20	457.0	152	190	229	89	461.8	462.3		13	462.0	533.4	–
20	857.3	108.0	622	749.3	54.0	20	508.0	159	210	248	97	513.1	514.4		13	512.8	584.2	–
24	1041.4	139.7	749	901.7	66.7	20	610.0	203	267	292	102	616.0	616.0		13	614.4	692.2	–

Note : (1) Height of 7mm

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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

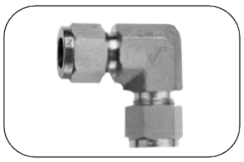
ABOVE 150 LBS AND UPTO 250 LBS PER SQ. INCH

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.

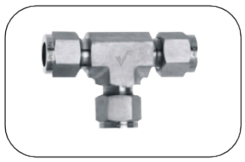
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S.S. INSTRUMENTAL FERRULE FITTINGS

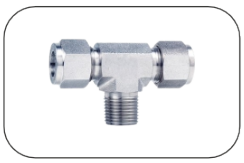

Union Elbow


Male Elbow


Female Elbow


Union Tee

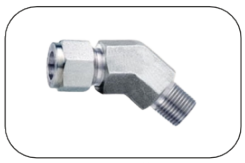

Male Run Tee


Male Branch Tee


Female Run Tee

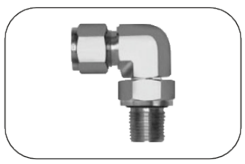

Female Branch Tee


Union Cross


45 Deg. Elbow

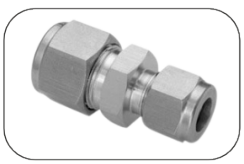

Tube end Closure

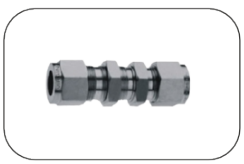

Bulk Head Elbow

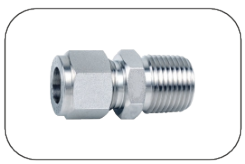

Positionable Male Elbow


Nut Ferrule


Union


Reducing Union


Bulkhead Union


Male Connector


Female Connector


Male Adaptor

S.S. TC FITTINGS


Three Way Valve


Two Way Valve


Dairy tanker valve


Butterfly Valve with Union


Butterfly Vlave Welded


Diaphragm valve


In Line Filter with Union


Tanker Valve with SMS Union


TC SIGHT GLASS


3 Pin Clamp


TC Ferrule


TC Clamp Indian Set


90° Bend Plain


Tee Plain


TC Tee


TC Bend 90°


SS Y Bend Plain


TC Cross


TC Reducer


TC 45° Bend

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TOLERANCE ASTM SPECIFICATION FOR TUBING & PIPING

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		
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 .1524 .2032 .254 .3048 .381	.1016 .1524 .2032 .254 .3048 .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 0.25 0.38 0.76	0.13 0.13 0.25 0.38 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 ± 0.59 ± 0.59 ± 2.38	-0.79 -0.79 -0.79 -0.79 -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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