





About Company

We take pride in introducing ourselves as one of the leading importers, manufacturers, stockists and suppliers of a comprehensive range of premium quality Stainless Steel and Ferrous and Non-Ferrous metal items which are required by your company in all aspects of Project implementation, Maintenance, Modernization etc.

Our offerings include stainless steel pipes / tubes, plates, coils, sheets, rods, strips, nuts and bolts. **Diamond Metal Industries** products are known for their high performance, durability and effectiveness.

Our Product Line:

Stainless Steel : Pipes & Tubes (Seamless / Welded / Fabricated), Sheets, Plates, Rods, Wires, Pipes Fittings and Components in AISI 304, 304L, 309, 310, 316, 316L, 317L, 321, 410, 420 & 431 Grades etc in all dimensions in indigenous and imported make

SS / CS / AS Fittings : Butt-welded / Stock-welded / Forged and Compression type with Ferules as per ASTM A403, WPS, A182, A105, A234, WPB, WPS, WP11, WP12, WP22, etc. as per your project requirements.

We also stock Monel, Nickel, Hastalloy, Inconel 600 / 800, Copper, Brass, Aluminum, Lead, Tin, Zinc and other minor metals in various sizes and shapes.

Established in 1990, the company has always achieved a good growth rate and success, a direct result of our efficient service to trade and industry. We are a proprietorship firm, working under the capable guidance of our proprietor, Mr. Bhagwan Singh, who has vast experience and extensive knowledge of this industry. **Diamond Metal Industries** was established with the objective of always putting customer interest first; that is what we did and what we are still doing today.

Alloy Steel/ Carbon Steel : Pipes and Tubes (ERW & W / Seamless) as per ASTM A335, P5, P11, P12, P22 and ASTM A 106, Gr. B, Sa179, BS-3059 Part I & II, IS- 1269



Over the years, we have gained sufficient experience in this field and received substantial business from reputed concerns in the chemical industry, petrochemical corporations, oil refineries, pharmaceutical companies, pulp and paper mills, cement plants, and fertilizer plants. We have also been suppliers to dairies, breweries, sugar mills, nuclear and thermal power stations, engineering concerns as well as projects of national importance. Many of our clients place orders with us on a repeated basis, which speaks volumes of the quality of our products and service.



Manufacturing & Quality

Diamond Metal Industries is one of the firms engaged in Manufacturing & Processing large variety of Butt-Welding/Forged Pipe-Fittings, Flanges, Pipes, in Stainless Steel, Carbon Steel, Alloy Steel, Nickel / Super Alloys & many other Ferrous / Non-Ferrous Metals. They find application in Refining, Petrochemical, Chemical, Oil & Gas, Fertilizers, Pharmaceutical, Food & Beverage, Sugar, Paper, Power, Shipbuilding, Aerospace, Engineering, Nuclear, Defense and Research sectors. Our products match National/International standards and meet customer requirements/ specifications/drawings. Our customers are end- users, fabricators and distributors around the world.

We have complete in-house facilities for manufacturing of Butt-weld Fittings & Long Radius and Piggable Bends. These comprise Hot Forging, Cold Forging, Bending, Pressing, Welding, Grinding, Gauging, Handling, Hydraulic Testing, Heat Treatment, Annealing, Shot Blasting, Pickling & Passivating, Anti-Rust Coating & Packing.

Each manufacturing phase, from forging to welding, machining to testing, is carried out with a vast array of modern equipment and machinery. We exercise control over every bit of material throughout the manufacturing process, thanks to our rigorous QA & QC procedures. We also engage the services of external chemical and mechanical laboratories well equipped to perform both destructive and non-destructive examinations. We provide original Material Test Certificates, Government / Lloyds approved Laboratory Test Certificates, Third Party Inspection Certificates and Guarantee/Warranty Certificates for the supplies.

We wish to always be a reference for reliability, competence and service in the industry. We build lasting relationships with customers and contribute to their success, because we know that their success is ours as well.

The mission of Diamond Metal Industries is to provide the best customer service by supplying products manufactured with the latest technology, respecting delivery time lines, monitoring work progress and satisfying urgent customer requirements by leveraging our vast inventory of raw material, semi-finished and finished products.

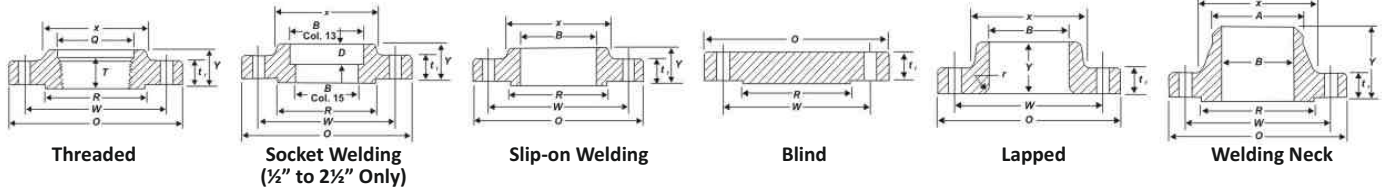
In recent years, the need for operating safety requirements for pipe systems has been rising exponentially. To meet this growing volume of requirements, **Diamond Metal Industries** has done pioneering work in the field of Development & Manufacture of seamless and welded fittings.

The advanced technology, supported by the superior design and construction of our manufacturing equipment, enables us to not only meet the requirements of internationally accepted manufacturing standards, but also cope with the growing demand for special fittings.

Our heat treatment facilities are equipped with high precision temperature control, which enables optimal adjustment of material properties.

Our quality assurance system is documented in an approved quality assurance manual and covers all production processes. We exercise rigorous control over dimensions and mechanical properties — starting from the raw material, through all the production phases, to laboratory tests on the finished product—in order to maintain the high quality levels of **Diamond Metal Industries** products.

FLANGES



DIMENSIONS OF CLASS 150 FLANGES AS PER ANSI B 16.5

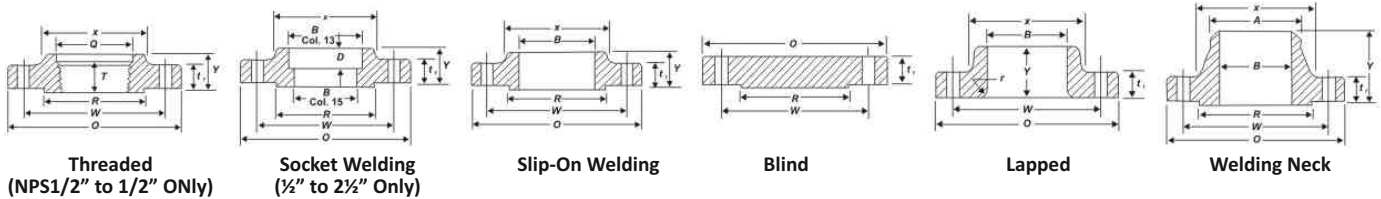
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Nominal Pipe Size NPS	Outside Diameter of Flange O	Thickness of Flange, Min., t1	Drilling				Diameter of Hub, X	Hub Diameter Beginning of Chamfer Welding Neck A	Length Thru Hub			Threaded/Length Threaded Min. B	Bore			Corner Radius of Bore Lapped Flange 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	6.9.9	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	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
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	-	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 AS PER ANSI B 16.5

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 Beginning of Chamfer Welding Neck A	Length Thru Hub			Threaded/Length 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
			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	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	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 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	-	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.

FLANGES



DIMENSIONS OF CLASS 600 FLANGES AS PER ANSI B 16.5

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 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	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		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	162.3		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 1500 FLANGES AS PER ANSI B 16.5

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 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	121	22.3	38	82.6	22.3	4	21.3	32	32	60	23	22.2	22.9		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	28.2		3	29.0	11	42.9
1	149	28.6	52	101.6	25.4	4	33.4	41	41	73	29	34.5	34.9		3	35.8	13	50.8
1 1/4	159	28.6	64	111.1	25.4	4	42.2	41	41	73	31	43.2	43.7		5	44.4	14	63.5
1 1/2	178	31.8	70	123.8	28.6	4	48.3	44	44	83	32	49.5	50.0		6	50.6	16	73.0
2	216	38.1	105	165.1	25.4	8	60.3	57	57	102	39	61.9	62.5		8	63.5	17	92.1
2 1/2	244	41.3	124	190.5	28.6	8	73.0	64	64	105	48	74.6	75.4		8	76.2	19	104.8
3	267	47.7	133	203.2	31.8	8	88.9	-	73	117	-	-	91.4		10	-	-	127.0
4	311	54.0	162	241.3	35.0	8	114.3	-	90	124	-	-	116.8		11	-	-	139.7
5	375	73.1	197	292.1	41.3	8	141.36	-	105	156	-	-	144.4		11	-	-	157.2
6	394	82.6	229	317.5	38.1	12	168.3	-	119	171	-	-	171.4		13	-	-	215.9
8	483	92.1	292	393.7	44.5	12	219.1	-	143	213	-	-	222.2		13	-	-	269.9
10	584	108.0	368	482.6	50.8	12	273.0	-	178	254	-	-	277.4		13	-	-	323.8
12	673	123.9	451	571.5	54.0	16	323.8	-	219	283	-	-	328.2		13	-	-	381.0
14	749	133.4	495	635.0	60.7	16	355.6	-	241	298	-	-	360.2		13	-	-	412.8
16	826	146.1	552	704.8	66.7	16	406.4	-	260	311	-	-	411.2		13	-	-	469.9
18	914	162.0	597	774.7	73.0	16	457.0	-	276	327	-	-	462.3		13	-	-	533.4
20	984	177.8	641	831.8	79.4	16	508.0	-	292	356	-	-	514.4		13	-	-	584.2
24	1168	203.2	762	990.6	92.1	16	610.0	-	330	408	-	-	616.0		13	-	-	692.2

Note : (1) Height of 7mm

DIMENSIONS 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
½"	21.3	95.3	66.7	4	12.7	4.8
¾"	26.7	101.6	73.0	4	12.7	4.8
1"	33.4	114.3	82.6	4	12.7	4.8
1¼"	42.2	120.7	87.3	4	12.7	6.4
1½"	48.3	133.4	98.4	4	12.7	6.4
2"	60.3	152.4	114.3	4	15.9	7.9
2½"	73.0	165.1	127.0	4	15.9	7.9
3"	88.9	184.2	146.1	4	15.9	9.5
3½"	101.6	203.2	165.1	4	15.9	9.5
4"	114.3	215.9	177.8	4	15.9	9.5
5"	141.3	254.0	209.6	8	15.9	12.7
6"	168.3	279.4	228.6	8	15.9	12.7
7"	190.5	304.8	260.4	8	15.9	12.7
8"	219.1	336.6	292.1	8	15.9	12.7
9"	244.5	368.3	323.9	8	15.9	15.9
10"	273.0	406.4	355.6	8	19.1	15.9
12"	323.9	457.2	406.4	12	19.1	15.9
14"	355.6	527.1	469.9	12	22.2	19.1
16"	406.4	577.9	520.7	12	22.2	19.1
18"	457.2	641.4	584.2	12	22.2	22.2
20"	508.0	704.9	641.4	16	22.5	25.4
24"	609.6	825.5	755.7	16	25.4	28.6

TABLE - E

For Working Steam Pressure from 50 lbs to 100 lbs per sq. inch

Nominal Pipe Size	O.D. of Pipe	O.D.	P.C.D.	No. of Bolt	Dia of Bolt	Thickness
½"	21.3	95.3	66.3	4	12.7	6.4
¾"	26.7	101.6	73.0	4	12.7	6.4
1"	33.4	114.3	82.6	4	12.7	7.1
1¼"	42.2	120.7	87.3	4	12.7	7.9
1½"	48.3	133.4	98.4	4	12.7	8.7
2"	60.3	152.4	114.3	4	15.9	9.5
2½"	73.0	165.1	127.0	4	15.9	10.3
3"	88.9	184.2	146.1	4	15.9	11.1
3½"	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	228.6	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	527.2	469.9	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	647.4	16	22.2	31.8
24"	609.6	825.5	755.7	16	25.4	38.1

TABLE - F For Working Steam Pressure From 100 lbs to 150 lbs per sq. inch

Nominal Pipe Size	O.D. of Pipe	O.D.	P.C.D.	No. of Bolt	Dia of Bolt	Thickness
½"	21.3	95.3	66.7	4	12.7	9.5
¾"	26.7	101.6	73.0	4	12.7	9.5
1"	33.4	120.7	87.3	4	15.9	9.5
1¼"	42.2	133.4	98.4	4	15.9	12.7
1½"	48.3	139.7	104.8	4	15.9	12.7
2"	60.3	165.1	127.0	4	15.9	15.9
2½"	73.0	184.2	146.1	8	15.9	15.9
3"	88.9	203.2	165.1	8	15.9	15.9
3½"	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	25.4
9"	244.5	406.4	355.6	12	22.2	25.4
10"	273.0	431.8	381.0	12	22.2	25.4
12"	323.9	489.0	438.2	16	22.2	28.6
14"	355.6	552.5	495.3	16	25.4	31.8
16"	406.4	609.6	552.5	20	25.4	31.8
18"	457.2	673.1	609.6	20	28.6	34.9
20"	508.0	736.6	673.1	24	28.6	38.1
24"	609.6	850.9	781.1	24	31.8	41.3

TABLE - H For Working Steam Pressure From 150 lbs to 250 lbs per sq. inch

Nominal Pipe Size	O.D. of Pipe	O.D.	P.C.D.	No. of Bolt	Dia of Bolt	Thickness
½"	21.3	114.3	82.6	4	15.9	12.7
¾"	26.7	114.3	82.6	4	15.9	12.7
1"	33.4	120.7	87.3	4	15.9	14.3
1¼"	42.2	133.4	98.4	4	15.9	17.5
1½"	48.3	139.7	104.8	4	15.9	17.5
2"	60.3	165.1	127.0	4	15.9	19.1
2½"	73.0	184.2	146.1	8	15.9	19.1
3"	88.9	203.2	165.1	8	15.9	22.2
3½"	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	302.8	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 mm Bolts Dia the diameters of the holes will be 1.58 mm larger and for 19.01 and above the Hole Dia will be 3.17 larger

DIMENSIONS OF LONG RADIUS ELBOW ANSI B 16.9, B-16.28

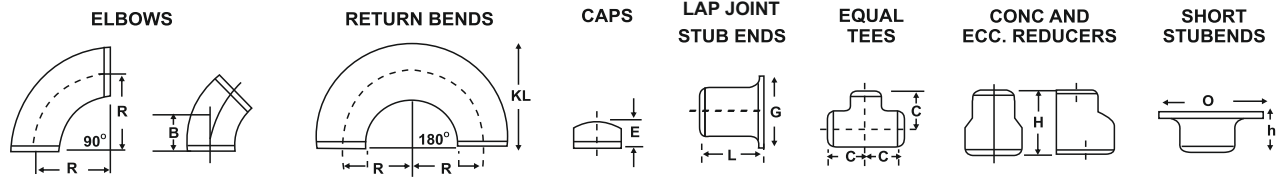
Nominal Diameter		Out Side Diameter	Centre to end		Centre to Centre	90° L/R Elbow Approx Weight				
NPS	DN	OD	A	B	O	Sch-5	Sch-10	Sch-20	Sch-40 STD	Sch-80
1/2	15	18 218	38	38	76	0.04 0.05	0.04 0.06	0.06 0.07	0.08 0.08	0.08 0.10
3/4	20	25 26.7	38	19	76	0.06 0.06	0.07 0.08	0.08 0.09	0.09 0.10	0.13 0.13
1	25	32 33.4	38	38	76	0.06 0.08	0.08 0.13	0.09 0.135	0.10 0.15	0.13 0.19
1¼	32	38 42.2	48	48	95	0.11 0.13	0.18 0.25	0.21 0.23	0.23 0.26	0.31 0.35
1½	40	45 48.3	57	57	114	0.16 0.17	0.26 0.28	0.30 0.61	0.34 0.66	0.44 0.90
2	50	57 60.3	76	76	152	0.25 0.29	0.24 0.48	0.57 0.61	0.62 0.66	0.85 0.90
2½	65	75 76.1	95	44	190	0.55 0.57	0.80 0.83	0.97 1.10	1.35 1.30	1.72 1.80
3	80	89	114	114	229	0.80	1.17	1.15	2.04	2.86
3½	90	101.6	133	133	267	1.08	1.17	1.15	2.04	2.86
4	100	108 114.3	152	64	305	1.31 1.39	1.91 2.03	2.65 2.87	3.54 3.76	5.13 5.46
5	125	133 141.3 139.7	190	190	381	2.68 2.82 2.87	3.24 3.45 3.41	4.81 5.12 5.06	6.16 6.54 6.47	8.71 9.25 9.14
6	150	159 168.3	229	229	457	3.85 4.10	4.69 4.96	6.97 7.24	9.56 9.95	14.4 15.0
8	200	219 218.3	305	305	610	7.15 7.05	9.65 9.53	16.1 15.9	20.4 20.1	31.0 30.5
10	250	273 267.4	381	381	762	13.7 13.2	16.7 16.3	25.8 24.6	36.2 35.4	57.2 56.2
12	300	325 323.9 318.5	457	457	914	23.0 22.6 22.3	26.1 26.0 25.3	36.1 35.0 35.3	55.7 55.5 56.1	95.2 94.8 92.7
14	350	377 355.6	533	533	1067	30.8 34.7	36.9 34.7	56.7 56.7	83.1 78.2	147.0 138.0
16	400	426 406.4 508	610	610	1219	41.8 39.9 71.48	47.7 45.5 82.72	78.0 74.3 118.37	122.0 116.0 141.17	211.0 201.0 186.94
18	450	478 457.2	686	686	1372	53.11 50.78	60.52 57.86	100.62 96.14	199.44 114.14	158.10 151.03
20	500	559 508	838	343	1524	86.58 71.48	100.21 82.72	144.06 118.87	171.14 141.17	265.75 186.94
22	550	559	838	343	1676	86.58	100.21	144.06	171.14	226.75
24	600	630 610	914	914	1829	123.32 119.37	141.16 136.64	177.37 171.67	210.78 203.98	279.45 270.40

Dimensions of Short Radius Elbow

Nominal Size	DN	Out Side Diameter	Centre to end	Centre to end	90° L/R Elbow Approx Weight				
					Sch-5	Sch-10	Sch-20	Sch-40 STD	Sch-80
1	25	33.5	50.8	41.1	0.05	0.05	0.09	0.1	0.13
1¼	32	42.2	63.5	52.3	0.08	0.08	0.16	0.17	0.23
1½	40	48.3	76.2	62.0	0.11	0.11	0.21	0.24	0.33
2	50	60.5	101.6	81.0	0.19	0.19	0.41	0.44	0.60
2½	65	73.2	127	100.1	0.39 0.37	0.39 0.37	0.65 0.62	0.91 0.87	1.21 1.15
3	80	88.9	152.4	120.7	0.54	0.54	1.01	1.36	1.84
3½	90	101.6	177.8	139.7	0.73	0.73	1.36	1.91	2.62
4	100	114.3	203.2	158.8	0.89 0.94	0.89 0.94	1.65 1.75	2.44 2.59	3.39 3.59
5	125	141.2	254.0	196.9	1.79 1.90 1.88	1.79 1.90 1.88	3.17 3.38 3.34	4.10 4.37 4.32	5.83 6.22 6.14
6	150	168.1	304.8	236.5	2.72 2.57 2.66	2.72 2.57 2.66	4.84 4.56 4.74	6.79 6.40 6.65	10.23 9.63 10.02
8	200	218.9	406.4	312.7	4.74 4.68	4.74 4.68	10.61 10.46	13.65 13.46	20.74 20.44
10	250	273.1	508.0	390.7	9.08 8.89	9.08 8.89	16.64 16.29	24.22 23.70	32.75 32.04
12	300	323.9	609.6	466.9	15.12 15.07 14.79	15.12 15.07 14.79	23.88 23.80 23.36	35.76 35.64 34.79	47.18 47.10 46.12
14	350	355.6	711.2	533.4	20.51 19.33	20.51 19.33	40.99 38.61	48.62 45.79	64.24 60.46
16	400	406.4	812.8	609.6	27.98 26.68	27.98 26.68	52.95 50.47	62.84 59.89	83.11 79.17
18	450	457.2	914.4	658.8	35.38 33.83	35.38 33.83	67.01 64.05	79.57 76.04	105.32 100.61
20	500	508.0	1016.0	762.0	-	-	-	-	-
22	550	558.8	1117.6	838.2	-	-	-	-	-
24	600	609.6	1219.2	914.4	-	-	-	-	-

BUTT WELDING FITTINGS TO ANSI B16.9, B 16.28

STAINLESS STEEL ASTM A 403/CARBON STEEL ASTM A 234



NOM BORE	PIPE O.D.	WALL THICKNESS				RADIUS R				A	B	C	E	G	L		H	D	H
		5S	10S	40S	80S	1D	1.5D	2D	3D						SHORT	LONG			
1/2	21.34	1.65	2.11	2.77	3.73	12.7	19.05	25.4	38.1	12.7	15.9	25.4	25.4	34.9	50.8	76.2	50.8	42	8
3/4	26.67	1.65	2.11	2.87	3.91	19.05	28.57	38.10	57.15	19.05	11.1	28.6	25.4	42.8	50.8	76.2	50.8	52	8
1	33.40	1.65	2.77	3.38	4.55	25.4	38.1	50.8	76.2	25.4	22.2	38.1	38.1	50.8	50.8	101.6	50.8	62	10
1 1/4	42.16	1.65	2.77	3.56	4.85	31.75	47.6	63.5	95.25	31.75	25.0	47.6	38.1	63.5	50.8	101.6	50.8	72	12
1 1/2	48.26	1.65	2.77	3.68	5.08	38.1	57.15	76.2	114.3	38.10	28.6	57.2	38.1	73.0	50.8	101.6	63.5	82	12
2	60.32	1.65	2.77	3.91	5.54	50.8	76.2	101.6	152.4	50.8	34.0	63.5	38.1	92.0	63.5	152.4	76.2	98	16
2 1/2	73.02	2.11	3.05	5.16	7.01	63.5	95.25	127.0	190.5	63.5	44.0	76.2	38.1	104.8	63.5	152.4	88.9	118	16
3	88.90	2.11	3.05	5.49	7.62	76.2	114.30	152.4	228.6	76.2	50.8	85.7	50.8	127.0	63.5	152.4	88.9	130	18
3 1/2	101.60	2.11	3.05	5.74	8.08	88.9	133.35	177.8	266.7	88.9	57.2	95.3	63.5	139.7	76.2	152.4	101.6	140	18
4	114.30	2.11	3.05	6.02	8.56	101.6	152.4	203.2	304.8	101.6	63.5	104.8	63.5	157.2	76.2	152.4	101.6	168	20
5	141.30	2.77	3.40	6.55	9.52	127.0	190.5	254.0	381.0	127.0	82.6	123.8	76.2	185.7	76.2	203.2	127.0	188	25
6	168.27	2.77	3.40	7.11	10.97	152.4	228.6	304.8	457.2	152.4	95.3	142.7	88.9	215.9	88.9	203.2	139.7	215	25
8	219.07	2.77	3.76	8.18	12.7	203.2	304.8	406.4	609.6	203.2	127.0	177.5	101.6	270.0	101.6	203.2	152.4	270	30
10	273.05	3.40	4.19	9.27	12.7	254.0	381.0	508.0	762.0	254.0	158.7	215.9	127.0	324.0	127.0	254.0	177.8	330	35
12	323.85	3.96	4.57	9.52	12.7	304.8	457.2	609.6	914.4	304.8	190.5	254.0	152.4	381.0	152.4	254.0	203.2	400	40
14	355.60	3.96	4.76	9.52	12.7	355.6	533.4	711.2	1066	355.6	222.2	280.0	165.1	412.8	152.4	305.0	330.2		
16	406.40	4.19	4.76	9.52	12.7	406.4	609.6	812.8	1219	406.4	254.0	304.8	177.8	470.0	152.4	305.0	355.6	-	-
18	457.20	4.19	4.76	9.52	12.7	457.2	685.8	914.4	1372	457.2	285.7	343.0	203.2	533.4	152.4	305.0	381.0	-	-
20	508.00	4.76	5.54	9.52	12.7	508.0	762.0	1016	1524	508.0	317.6	381.0	228.6	584.2	152.4	305.0	508.0	-	-
24	609.60	5.54	6.35	9.52	12.7	609.6	914.4	1219	1829	-	381.0	431.8	266.7	698.5	152.4	305.0	508.0	-	-

STANDARDS : All dimensions are in mm and confirm to ANSI B 16.9 and MSS. SP-43

RADIUS : Radius of Short Radius Elbows is 1 times nominal pipe diameter, Radius of Long Radius Elbows is 1 1/2 time nominal pipe diameter.

MATERIAL OF CONSTRUCTION: S.S 304/304L/316/316L/321 Carbon Steel and Alloy Steel.

S.S. PIPE AND TUBES SCHEDULE DIMENSIONS, WALL THICKNESS, WT./MTR. (KG) ANSI B 36.19

Diameter Tubi Size Pipe		Nominal Thickness and Weights Number of Schedule																								Double Extra Strong	D. Tubi Size P. nominal in inch					
		5S		10S		10		20		30		40		60		80		100		120		160		Standard				Extra-Strong				
Nominal in inch	Out Side in mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm			
1/8"	10.3	--	1.28	0.28	--	1.60	0.345	--	1.78	0.36	--	2.41	0.46	--	3.02	0.80	--	3.20	1.10	--	4.78	1.95	--	1.73	0.36	2.41	0.46	--	1.73	0.36	2.41	0.46
1/4"	13.7	--	1.65	0.49	--	2.00	0.580	--	2.24	0.63	--	3.02	0.80	--	3.20	1.10	--	3.73	1.62	--	4.78	1.95	--	2.24	0.63	3.02	0.80	--	2.24	0.63	3.02	0.80
3/8"	17.1	--	1.65	0.63	--	2.00	0.750	--	2.31	0.85	--	3.20	1.10	--	3.73	1.62	--	4.78	1.95	--	4.78	1.95	--	2.31	0.85	3.20	1.10	--	2.31	0.85	3.20	1.10
1/2	21.3	1.65	2.11	1.00	--	2.0	0.957	--	2.77	1.26	--	3.73	1.62	--	4.78	1.95	--	5.56	2.89	--	5.56	2.89	--	2.77	1.26	3.73	1.62	7.47	2.54	7.47	2.54	
3/4	26.7	1.65	2.11	1.28	--	2.5	1.500	--	2.87	1.68	--	3.91	2.19	--	4.55	3.23	--	5.56	2.89	--	5.56	2.89	--	3.91	2.19	4.55	3.23	9.09	3.03	9.09	3.03	
1	33.4	1.65	2.77	2.08	--	2.5	1.916	--	3.38	2.50	--	4.55	3.23	--	5.56	4.23	--	6.35	4.23	--	6.35	4.23	--	4.55	3.23	5.56	4.23	12.70	4.23	12.70	4.23	
1 1/4	42.2	1.65	2.77	2.69	--	3.00	2.910	--	3.56	3.33	--	4.85	4.46	--	6.35	5.60	--	6.35	5.60	--	6.35	5.60	--	4.85	4.46	5.56	4.46	15.24	5.45	15.24	5.45	
1 1/2	48.8	1.65	1.90	2.77	3.12	--	3.0	3.370	--	3.08	4.05	--	5.08	5.40	--	7.14	7.23	--	7.14	7.23	--	7.14	7.23	--	5.08	5.40	5.56	4.05	10.16	5.40	10.16	5.40
2	60.3	1.65	2.38	2.77	3.94	--	3.0	4.263	--	3.91	5.43	--	5.54	7.47	--	8.74	11.10	--	8.74	11.10	--	8.74	11.10	--	5.54	7.47	5.54	5.43	13.44	7.47	13.44	7.47
2 1/2	73.0	2.11	3.70	3.05	5.26	--	4.00	6.846	--	5.16	8.62	--	7.01	11.40	--	9.92	14.90	--	9.92	14.90	--	9.92	14.90	--	7.01	11.40	7.01	8.62	14.02	20.39	11.40	14.02
3	88.9	2.11	4.50	3.05	6.45	--	4.00	8.423	--	5.49	11.28	--	7.62	15.25	--	11.13	21.30	--	11.13	21.30	--	11.13	21.30	--	7.62	15.25	7.62	15.25	27.65	15.25	27.65	15.25
3 1/2	101.6	2.11	5.20	3.05	7.40	--	4.5	10.838	--	5.74	13.56	--	8.08	18.62	--	13.49	33.51	--	13.49	33.51	--	13.49	33.51	--	8.08	18.62	8.08	18.62	40.99	18.62	40.99	18.62
4	114.3	2.11	5.61	3.05	8.34	--	4.5	12.255	--	6.02	16.06	--	8.56	22.29	--	15.88	49.05	--	15.88	49.05	--	15.88	49.05	--	8.56	22.29	8.56	22.29	57.37	22.29	57.37	22.29
5	141.3	2.77	9.45	3.40	11.56	--	5.00	16.900	--	6.55	21.76	--	9.52	30.92	--	20.24	67.47	--	20.24	67.47	--	20.24	67.47	--	9.52	30.92	9.52	30.92	79.11	30.92	79.11	30.92
6	168.3	2.77	11.31	3.40	13.82	--	6.35	24.150	--	7.11	28.23	--	10.97	42.52	--	25.40	81.21	--	25.40	81.21	--	25.40	81.21	--	10.97	42.52	10.97	42.52	107.78	42.52	107.78	42.52
8	219.1	2.77	14.78	3.76	19.94	--	6.35	33.28	7.04	8.18	42.49	10.31	53.07	12.70	64.57	15.09	75.79	18.26	90.32	23.01	111.18	8.18	42.49	12.70	64.57	15.09	75.79	18.26	22.22	107.78	15.09	22.22
10	273.1	3.40	22.62	4.19	27.83	--	6.35	41.73	7.80	50.96	9.27	60.24	12.70	81.46	15.09	95.84	18.26	114.59	21.44	132.85	28.58	172.11	9.27	60.24	12.70	81.46	15.09	25.40	154.97	15.09	25.40	
12	323.9	3.96	33.00	4.57	36.00	--	6.35	49.68	8.38	65.14	10.31	79.71	14.27	108.97	17.48	131.81	21.44	159.67	25.40	186.75	33.32	238.60	9.52	73.76	12.70	97.86	25.40	186.75	12.70	97.86	25.40	
14	355.6	3.96	34.23	4.78	41.18	--	6.35	54.63	7.92	67.98	9.52	81.21	11.13	94.31	15.09	126.51	19.05	194.64	27.79	224.36	35.71	281.49	9.52	81.21	12.70	107.28	--	--	--	107.28	--	
16	406.4	4.19	41.60	4.78	47.33	--	6.35	62.58	7.92	77.92	9.52	93.13	12.70	123.18	16.66	160.04	21.44	245.34	30.96	286.33	40.49	364.94	9.52	93.13	12.70	123.18	--	--	--	123.18	--	
18	457.2	4.19	46.83	4.78	53.18	--	6.35	70.53	7.92	87.85	11.13	122.12	14.21	155.90	19.05	205.62	23.83	254.24	29.36	363.33	39.67	459.18	9.52	105.05	12.70	139.07	--	--	--	139.07	--	
20	508.0	4.78	59.22	5.54	68.50	--	6.35	78.47	9.52	116.97	12.70	154.97	15.09	183.14	20.92	247.79	26.19	310.91	32.54	381.20	44.45	564.24	9.52	116.97	12.70	154.97	--	--	--	154.97	--	
22	558.8	4.78	63.75	5.54	73.81	--	6.35	86.42	9.52	128.89	12.70	170.86	--	--	22.22	283.80	28.58	373.27	34.92	450.75	47.62	671.28	9.52	128.89	12.70	170.86	--	--	--	170.86	--	
24	609.6	5.54	82.60	6.35	94.37	--	6.35	94.37	9.52	140.81	14.27	209.54	17.48	254.74	24.61	354.62	30.96	441.30	38.89	546.84	46.02	806.74	9.52	140.81	12.70	202.75	--	--	--	202.75	--	
26	660.4	--	--	--	--	--	7.92	127.58	12.70	202.65	--	--	--	--	--	--	--	--	--	--	--	--	--	9.52	152.73	12.70	202.65	--	--	--	202.65	--
28	711.2	--	--	--	--	--	7.92	137.52	12.70	218.54	15.88	271.94	--	--	--	--	--	--	--	--	--	--	--	9.52	152.73	12.70	218.54	--	--	--	218.54	--
30	762.0	--	--	--	--	--	7.92	147.45	12.70	234.44	15.88	219.81	--	--	--	--	--	--	--	--	--	--	--	9.52	164.65	12.70	234.44	--	--	--	234.44	--
32	812.8	--	--	--	--	--	7.92	157.39	12.70	250.33	15.88	311.67	17.48	342.17	--	--	--	--	--	--	--	--	--	9.52	176.57	12.70	234.44	--	--	--	234.44	--
34	863.6	--	--	--	--	--	7.92	157.32	12.70	266.22	15.88	331.54	17.48	364.01	--	--	--	--	--	--	--	--	--	9.52	188.50	12.70	250.83	--	--	--	250.83	--
36	914.4	--	--	--	--	--	7.92	177.26	12.70	282.12	15.88	351.41	--	--	--	--	--	--	--	--	--	--	--	9.52	212.34	12.70	282.12	--	--	--	282.12	--

ELECTRO POLISHED AND NON ELECTRO POLISHED TUBES



Diamond Metal Industries is a stockiest of electro-polished as well as non electro-polished SS tubes. We keep high quality and greater durable tubes with various grades such as 316L, 316, 304L, 304. There are choice with tubes of semi-seamless, seamless, electro-resistance welded as well. Tubes are available in various types as per their surface finishes, like electro-polished, matt, mirror, mechanical finish, bright annealed. This finishes may vary from 0.4 μ Ra to 0.8 μ Ra. Sulfur controlled tubes are also available as per customers requirements. We provide tubes with higher mechanical as well as metallurgical measures. Raw material used to manufacture tubes are of high quality to achieve high quality finally. We avail tubes of greater mechanical properties, good weld-ability, globally accepted dimensional standards and strength. Tubes manufactured by skilled, passionate, technically sound personals. These type of tubes are usually used in pharmaceuticals, food & beverages, dairy and cosmetics industries.

SPECIFICATIONS:

Grade	316L, 316, 304L, 304
Surface finish	Matt, mechanical, electro polished, mirror, bright annealed – inside and outside
Standard	ASTM A249, A269, A270
Outer diameter Size	1/4" OD to 6.0" OD
Wall Thickness	14 SWG to 20 SWG
Length	6 meters
Type	Semi-seamless, seamless, Electro-resistance welded
Tubes used for utilities	Purified water, water for injection, pure as well as boiler steam, hot and chilled water, cooling water, brine, compressed air, nitrogen, vacuum, solvent etc.

ELECTRO POLISHED AND NON ELECTRO POLISHED FITTINGS

Diamond Metal Industries is a manufacturer of electro-polished as well as non electro-polished SS fittings. We make high quality and greater durable fittings like Bend, Tee, Reducer, Triclover (TC) Liner, TC Clamp, Pipe Holding Clamp, SMS Union. All fittings are manufactured in ASME BPE standard. There are choice with tubes of semi-seamless, seamless, electro-resistance welded as well in bend, equal and unequal tee, reducer. TC liners are manufactured in single piece. Bend, Tee and reducer are available in various types as per their surface finishes, like electro-polished, matt, mirror, mechanical finish, bright annealed. This finishes may vary from 0.4 μ Ra to 0.8 μ Ra. We manufacture fittings with higher mechanical as well as metallurgical measures and greater dimensional accuracy. Raw material used to manufacture tubes are of high quality to achieve high quality finally. Fittings manufactured of greater mechanical properties, good weld-ability, globally accepted dimensional standards and strength. Fittings manufactured by skilled, passionate, technically sound manpower.



SPECIFICATIONS:

Grade	316L, 316, 304L, 304
Surface finish	Matt, mechanical, electro polished, mirror, bright annealed – inside and outside
Standard	ASTM A249, A269, A270
Outer diameter Size	1/4" OD to 6.0" OD
Wall Thickness	14 SWG to 20 SWG
Type	Semi-seamless, seamless, Electro-resistance welded
Tubes used for utilities	Purified water, water for injection, pure as well as boiler steam, hot and chilled water, cooling water, brine, compressed air, nitrogen, vacuum, solvent etc.



Storage Tanks

Mixing Vessels, Process Vessels, Manufacturing Vessels, Pressure Vessels, Holding Vessels

Diamond Metal Industries offer various range in industrial storage tanks for especially pharmaceutical, food and beverage, dairy and cosmetics industries. We offer tanks with various materials like SS 316L, 316, 304L, 304, M.S. with many surface finishes like matt, mirror, mechanical finish which may vary from 0.4 µRa to 0.8 µRa internally and externally. Capacity of 10L to 5kL volume can be achieved. In Mixing Vessels Stirrer is available with top as well as bottom mounted as per clients' need. In tanks and vessels heating and cooling mechanism can be provided like steam and/or electrical heating and cooling with chilled water or brine. Tanks and vessels are designed to sustain pressure and temperature for uninterrupted operation. Tank and vessel' drain ability is also taken care in design. Compressed air receiver is also available to serve our customers. They are more reliable as mechanical properties are concerned and we follow ASTM and GMP standards. We are pioneer to manufacture tanks for Purified water, water for injection, liquid or semi liquid products. Materials used are of genuine manufacturer so quality can not be compromised.

Diamond Metal Industries provide best solution for heat exchange between different media. Purified water, Water for Injection, Pure steam, RO Water etc. are usual media to be cooled by means of chilled / cooled water and heated by means of hot water, steam. While using heat exchanger in sanitary application internal surface finish is electro polish is must for critical purposes like full drainability and zero dead leg. Our heat exchanger are designed to achieve higher thermal efficiency by means of its parts like buffel and exposure area of tubes in shell and tube type heat exchanger. Sample cooler of pure steam can be mostly used in pharmaceuticals industry like injectable plants. Whole heat exchanging systems are designed to operate manually, semi automatically or fully automatically.



Heat Exchanger



Filtration Systems

Filter Housing, Filter paper holder

Diamond metal Industries manufacture Filter Housing and filter paper holder in many manner. Different types of filter housings are available as per its use like inline filter housing, vent filter housing. Material of construction are SS 316L, 316, 304L, 304 as per utility and as per clients' need. Material quality and skilled personals are involved to make it most efficient and elegant equipment for filtration purpose and durable working. Housing can be of single cartridge or multi cartridge. Sampling and vent provision are also given to regularly check up of the media to be passed. Our filter housing is can be use in compressed air, purified Water, Water for injection, RO Water, Raw Water, pharmaceuticals products. DMI make filter housings are manufactured under ASTM and GMP standard and they are also eligible for integrity testing.

Diamond Metal Industries always welcome new designs and new products which are customized by clients. There are many other products we can manufacture like spool pieces, sample bottles, odd size and standard fittings, SS Pendants etc. Custom fabricated parts are usually process oriented in industry. Surface finish can be achieved like matt, mechanical, electro-polished, mirror



Custom Fabrication

STOCKS & SUPPLIERS: FLANGE



Socket Weld The socket weld flange is similar to a slip-on flange, except that it has a bore and a counter bore. These act as a socket, holding the pipe in place before welding, hence the name. The counter bore is slightly larger than the OD of the matching pipe, allowing the pipe to be inserted into the flange, while the diameter of the smaller bore is the same as the ID of the matching pipe. This difference in bore size acts only as a restriction to the depth insertion of the pipe, and therefore eliminates any restriction in flow.

The socket weld flange is similar to a slip-on flange, except that it has a bore and a counter bore. These act as a socket, holding the pipe in place before welding, hence the name. The counter bore is slightly larger than the OD of the matching pipe, allowing the pipe to be inserted into the flange, while the diameter of the smaller bore is the same as the ID of the matching pipe. This difference in bore size acts only as a restriction to the depth insertion of the pipe, and therefore eliminates any restriction in flow.



Large Diameter We stock many large diameter flanges in 304/304L, 316/316L and also A-105 - carbon steel. These range in size from 28" to 36" for stainless and 28" to 36" for carbon. We can also easily solve your purchasing problems when it comes to plate flanges - AWWA C207 - and B16.47 Series A (MSS SP-44) and Series B (API-65), as well as B16.1 specifications. Other large diameter flanges, including larger sizes of those mentioned above, can be sourced to meet any requirement you may have.

Spectacle Blind These types of flanges are made from plate, and come in 3 different types.

The first and most widely used type are spec blinds - short for spectacle: these are flanges with two equal outside diameter (OD) parts welded together by way of a 'bridge'. One of the parts also contains an inside diameter (ID), while the other is a blank, or blind. A whole is put at the half way mark of the bridge. These are also called spectacles, figure 8's, and figure 8 blanks, because of their resemblance to reading glasses (spectacles) and figure 8's. These are referred to as 'Line Blanks' in the ASME/ANSI standards.

The second and third types are quite similar: both have longer bridges, referred to as 'paddles', which resemble longer handles. One type has only an OD, and so is a blind plate - similar in appearance to a large pizza oven peel. These are referred to as paddle blinds. The other type is exactly the same but comes with an ID as well, enabling flow-through when installed in a piping system. These pieces have holes in the paddle which enables field personnel to determine by sight which piece is installed in a system. These are referred to as paddle spacers, and are often supplied in sets together with the paddle blinds.

All 3 types of these flanges are used in piping systems or pressure vessels where the flow needs to be interrupted from time to time. They are installed between two pipe flanges (as specified above), and by way of a screw inserted into the hole in the bridge or paddle, they are able to rotate or 'swing' into and out of position to interrupt or allow the flow, as the user sees fit. Our spec blind flanges are available with raised, flat, or RTJ faces. These flanges are available in all of our stainless steel and chrome-moly grades, from 1/2" to 24" and beyond, class 150 to 2500. We can also source many of your other grade requirements. 10



STOCKS & SUPPLIERS : OTHER STOCKIEST



Pipe & Tube

Stainless Steel, Duplex, Super Duplex

Seamless : ASTM A312, A213, A269, A790, DIN 14404

Welded : ASTM A312, A358, A249, A790, A928, DIN 14461

Grade : 304, 304L, 304H, 304LN, 316, 316L, 316H, 316TI, 316LN, 317, 317L, 317LN, 3098S, 309H, 310S, 310H, 321, 321H, 347, 317H, 317LN, S31254, S31803, S32750, S32760, S32550

Size : 1/8" to 24" (Seamless) & 1" to 48" (Welded)

Thickness : 0.5mm to 75mm

Types :

Bolts, Nuts, Washers, Anchor Fasteners, Stud Bolts, Eye Bolt, Stud, Threaded Rod, Cotter Pin, Socket Screw.

Stainless Steel:

AISI 302, 304, 304L, 316, 316L, 310, 317, 317L, 321, 347, 410, 420, 9041, etc

Alloy Steel :

4.6, 5.6, 6.6, 8.8, 10.9 & 12.9 / 'R1, 'S1, T Conditions.

Carbon Steel :

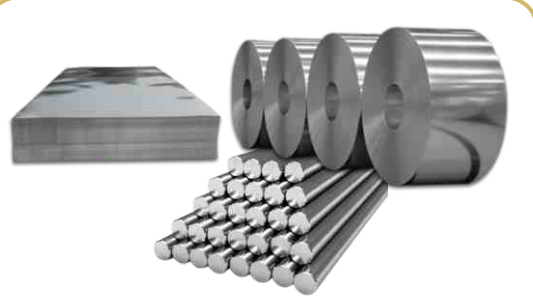
Bare Condition, Galvanized, Phosphated, Cadmium Plated, Hot Dip, Galvanized, Black, Nickel Chrome Plated, etc.

Non Ferrous Metal :

Copper, Brass, Aluminium, Titanium, Al. Bronze, Phosphorous Bronze, etc.



Fasteners



Sheet, Rods & Plates

Stainless Steel Coils : Thickness : 0.31mm & Above
Width : 1000mm / 1220mm / 1525mm / 2000mm

Stainless Steel Plates : Thickness : 3mm & above Width : 1000mm to 3200mm
Length : 2438mm / 3048mm / 6096mm to 13500mm

Stainless Steel Sheets : Thickness : 0.25mm & above
Width : 6mm ~ 2000mm Length : 1000mm ~ 1000mm

Rods : 6mm & above





FORMULA OF CALCULATING WEIGHT

WEIGHT OF STAINLESS STEEL / CARBON STEEL PIPES & TUBES

$OD (mm) - W.T. (mm) \times W.T. (mm) \times 0.022466 = KG / MTR.$

WEIGHT OF STAINLESS STEEL SHEET

$Length (mm) \times Width (mm) \times Thk. (mm) \times 8 = KG. / SHEET$

WEIGHT OF STAINLESS STEEL SHEET

$Length (mm) \times Width (mm) \times Thk. (mm) \times 7.85 = KG. / SHEET$

WEIGHT OF STAINLESS STEEL SHEET CIRCLE & BLANKS

$O.D. (mm) \times O.D. (mm) \times Thk. (mm) / 160 / 1000 = KG./PCS.$

WEIGHT OF STAINLESS STEEL ROUNDS

$Dia. (mm) \times Dia. (mm) \times 0.00623 = KG./ MTR.$

WEIGHT OF STAINLESS STEEL HEXAGONAL RODS

$Dia. (mm) \times Dia. (mm) \times 0.00679 = KG. / MTR.$

WEIGHT OF STAINLESS STEEL SQUARE RODS

$Dia. (mm) \times Dia. (mm) \times 0.00787 = KG. / MTR.$

WEIGHT OF COPPER PIPES

$O.D. (mm) - W.T. (mm) \times W.T. (mm) \times 0.0285 = KG / MTR.$

WEIGHT OF ALUMINUM PIPES

$O.D. (mm) - W.T. (mm) \times W.T. (mm) \times 0.0282 = KG / MTR.$

WEIGHT OF ALUMINUM SHEET

$Length (mtr.) \times Width (mm) \times Thk. (mm) \times 2.66 = KG. / SHEET$

WEIGHT OF LEAD SHEET

$Length (mtr.) \times Width (mm) \times Thk. (mm) \times 11.2 = KG. / MTR.$

SHEET WIDTH REQD. FOR ROLLED & WELDED PIPE

$O.D. (mm) - THK.(mm) \times 3.14 = SHEET WIDTH (mm)$

WEIGHT FOR SQUARE / RECTANGLE PIPES

$Length \text{ from } 4 \text{ Angle } (OD) / 3.14 - Thk. (mm) \times Thk. (mm) \times 0.00756 = KG. / PER FEET$

WEIGHT FOR CONVERSION OF MTR. TO FEET

Weight of 1 Mtr. 3.2808 = Feet

FORMULA FOR HEALTHY BUSINESS


Honesty + Quality of Goods + Quick Service
+ Reasonable rate = Good Health of Business


APPLICATION INDUSTRIES





- ◆ OIL & GAS INDUSTRIES
- ◆ PHARMACY INDUSTRIES
- ◆ STEEL & POWER
- ◆ ENGINEERING
- ◆ CEMENT INDUSTRIES
- ◆ REFINERY PLANT
- ◆ SHIPBUILDING
- ◆ FIRE FALLING SYSTEMS
- ◆ CHEMICAL
- ◆ FERTILIZER
- ◆ PAPER & PULP MILLS
- ◆ SUGAR INDUSTRIES
- ◆ WATER PIPING SYSTEMS
- ◆ BEVERAGE INDUSTRIES



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Ahmedabad - 382 435

Formula For Healthy Business

Honesty + Quality of Goods + Quick Service + Reasonable rate = **Good Health of Business**