

Driving Project Through Steel



**KAMDHENU
PIPE SOLUTIONS**

AN ISO 9001:2015 CERTIFIED COMPANY



Company Profile

KAMDHENU PIPE SOLUTIONS was established in 2010 and started as a Butt Weld Pipe Fittings trading company in the beginning. KPS has grown up rapidly to be a global fitting supplier based on strong financial structure, large volume of inventory/stock, biggest manufacturing facilities, accumulated technologies and experiences. We have supplied our products to the world wide major customer's comprehensive industrial area such as Oil & Gas, Chemical & Petrochemical, Water treatment, Nuclear & Power Plant, Offshore platform & Shipbuilding. Our products are applicable for any kinds of severe operating condition such as high pressure and high temperature or cryogenic condition. We are always doing our best to bring up KPS to be the world's leading company through drastic investment activities in the belief that the best quality is the solid bastion of business survival and customer's satisfaction. In the future, KPS will provide more value to the customers based on our customer-first policy & quality-first policy.

We are active in virtually all industrial sectors. Our employees have specialist knowledge of sourcing, project management, logistics and stock planning and work closely together with our customers in the Industry and Energy markets. The combination of global logistics and knowledge of products and customer applications makes KPS a leading company in its markets.

Application Areas

We offer a wide range of Industrial Products which is used in various industries. Such as :

- Sugar Industries
- Chemical Industries
- Fertilizer Plants
- Pharmaceutical Industries
- Oil & Gas Industries
- Power Plant Industries
- Automotive Industries
- Pulp & Paper Mills
- Heat exchangers
- Energy Industries
- Construction Industries



Ambitions

We are driven in our ambitions and in our evolution by what markets and customers require from us, now and in the future. We have increasingly evolved into a service-oriented business, directed at specific markets and customers on the one hand, and on large projects with partnerships and customization on the other hand. We reinforce our leading market positions through organic growth and acquisitions, as well as through continually strengthening and broadening our product portfolio, service delivery and international organization. Our acquisitions are focused on areas in which we do not yet have any in-house specialism, or on geographical areas where we do not yet have a strong presence and want to enlarge our footprint.

Motto

We strive to deliver on time, keeping the tight project schedules of our clients, and maintain high quality in everything we do, from processes to products.

Team of Experts

We have an energetic and talented team of professionals who play crucial role in our success and have been our biggest support in all times. Our work force comprises experienced technical experts, quality analyst, purchase executives, personnel, sales and marketing and skilled labours. Our team of professionals works in synchronization with our manufacturers and clients, there by ensuring all procedures are executed systematically and without any discrepancies. Their dedication and painstaking efforts have helped us serve our domestic as well as our international clients successfully.

Quality Assurance

We have always followed a systematic quality management procedure to maintain the quality standards of our range of industrial products. We adhere to the International quality Standards in procuring our entire range of products. Our team of quality controllers enables us to offer technologically advance products, undertaking stringent quality check in procuring and delivery process.

Customer Satisfaction

We always work bearing in mind the client satisfaction and with goal of establishing long-term customer relationship. So we endeavor to understand and offer them exactly what they require with quality beyond their anticipation.

OUR USP

We are extremely competitive when our clients need:

- complex piping packages, involving the coordination of multiple sources and delivery points
- short time deliveries
- exotic products and/or materials
- qualified origins (West Europe, US, Japan) are mandatory according to project specification.



STAINLESS STEEL PIPES & TUBES

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, 316TI, 316H, 321, 321H, 347, 347H.

Nickel Alloy

ASTM / ASME SB 161/B725/B730 UNS 2200 (NICKEL 200)

ASTM / ASME SB 161/B725/B730 UNS 2201 (NICKEL 201)

ASTM / ASME SB 165/B725/B730 UNS 4400 (MONEL 400)

ASTM / ASME SB 729/B464/B468 UNS 8020 (ALLOY 20 / 20 CB 3)

ASTM / ASME SB 423/B705/B704 UNS 8825 (INCONEL 825)

ASTM / ASME SB 167/B517/B516 UNS 6600 (INCONEL 600)

ASTM / ASME SB 407/B514/B515 UNS 8810/8811 (INCONEL 800/HT)

ASTM / ASME SB 444/B705/B704 UNS 6625 (INCONEL 625)

ASTM / ASME SB 622/B619/B622 UNS 10276 (HASTELLOY C276)

Duplex Steel

ASTM / ASME SA 790 UNS NO: 31803 / 32760

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

Alloy Steel

ASTM / ASME A 335 GR P 1, P 5, P 9, P 11, P 12, P 22, P 23, P 91



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

Nominal Bore		Outside Diameter	Sch-5S		Sch-10S		Sch-40S		Sch-80S		Sch-160S		Sch-XXS	
mm	INCH	mm	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)
3	1/8	10.3	1.24	0.276	1.24	0.28	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.24	0.390	1.65	0.49	2.24	0.631	3.02	0.80	-	-	-	-
10	3/8	17.1	1.24	0.490	1.65	0.63	2.31	0.845	3.20	1.10	-	-	-	-
15	1/2	21.3	1.65	0.800	2.11	1.00	2.77	1.27	3.75	1.62	4.75	1.94	7.47	2.55
20	3/4	26.7	1.65	1.03	2.11	1.28	2.87	1.68	3.91	2.20	5.54	2.89	7.82	3.63
25	1	33.4	1.65	1.30	2.77	2.09	3.38	2.50	4.55	3.24	6.35	4.24	9.09	5.45
32	1 1/4	42.2	1.65	1.65	2.77	2.70	3.56	3.38	4.85	4.47	6.35	5.61	9.70	7.77
40	1 1/2	48.3	1.65	1.91	2.77	3.11	3.68	4.05	5.08	5.41	7.14	7.25	10.16	9.54
50	2	60.3	1.65	2.40	2.77	3.93	3.91	5.44	5.54	7.48	8.74	11.1	11.07	13.44
65	2 1/2	73.0	2.11	3.69	3.05	5.26	5.16	8.63	7.01	11.4	9.53	14.9	14.2	20.39
80	3	88.9	2.11	4.51	3.05	6.45	5.49	11.30	7.62	15.2	11.1	21.3	15.24	27.65
100	4	114.3	2.11	5.84	3.05	8.36	6.02	16.07	8.56	22.3	13.49	33.54	17.12	41.03
125	5	141.3	2.77	9.47	3.40	11.57	6.55	21.8	9.53	31.97	15.88	49.11	19.05	57.43
150	6	168.3	2.77	11.32	3.40	13.84	7.11	28.3	10.97	42.7	18.2	67.56	21.95	79.22
200	8	219.1	2.77	14.79	3.76	19.96	8.18	42.6	12.7	64.6	23.0	111.2	22.23	107.8
250	10	273.1	3.40	22.63	4.19	27.78	9.27	60.5	12.7	96.0	28.6	172.4	25.40	155.15
300	12	323.9	3.96	31.25	4.57	36.00	9.52	73.88	12.7	132.0	33.32	238.76	25.40	186.97
350	14	355.6	3.96	34.36	4.78	41.3	11.13	94.59	19.05	158.08	35.71	281.70	-	-
400	16	406.4	4.19	41.56	4.78	47.29	12.7	123.30	21.41	203.33	40.46	365.11	-	-
450	18	457.2	4.19	46.80	4.78	53.42	14.27	155.80	23.8	254.36	45.71	466.40	-	-
500	20	508.0	4.78	59.25	5.54	68.71	15.09	183.42	26.19	311.2	49.99	564.68	-	-
600	24	609.6	5.54	82.47	6.35	94.45	17.48	255.41	30.96	442.08	59.54	808.22	-	-

WEIGHT & THICKNESS OF S.S GUAGE PIPES

DIMENSION		10 SWG (3.2 MM)	12 SWG (2.6 MM)	14 SWG (2.1 MM)	16 SWG (1.65 MM)	18 SWG (1.2 MM)	19 SWG (1.0 MM)
Size	OD	Weight/MTR	Weight/MTR	Weight/MTR	Weight/MTR	Weight/MTR	Weight/MTR
1/2"	12.7	0.754	0.651	0.552	0.452	0.342	0.290
5/8"	15.875	1.006	0.856	0.718	0.582	0.437	0.369
3/4"	19.05	1.258	1.061	0.883	0.712	0.531	0.448
1"	25.4	1.762	1.470	1.214	0.972	0.720	0.605
1 1/4"	31.75	2.266	1.880	1.544	1.232	0.909	0.763
1 1/2"	38.1	2.770	2.289	1.875	1.492	1.098	0.920
2"	50.8	3.778	3.108	2.537	2.012	1.476	1.235
2 1/2"	63.5	4.786	3.928	3.198	2.531	1.854	1.550
3"	76.2	5.794	4.747	3.860	3.051	2.232	1.865
3 1/2"	88.9	6.802	5.566	4.521	3.571	2.610	2.180
4"	101.6	7.810	6.385	5.183	4.091	2.988	2.495



BUTTWELD FITTINGS.....

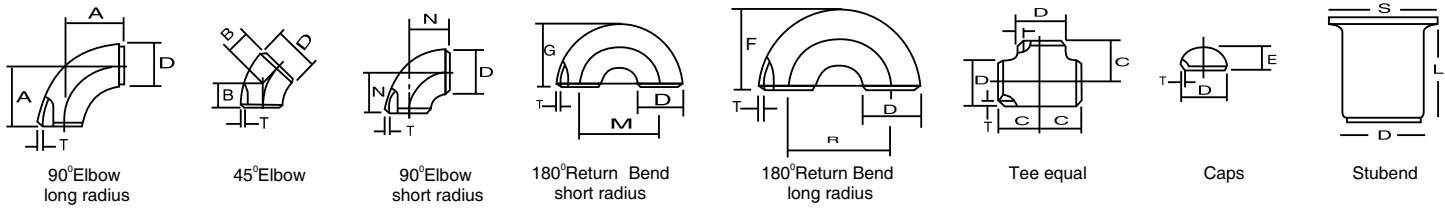


Stainless Steel	: ASTM A403, WP304,304L,304H,316, 316L,317,317L,321,310,347,904L
Duplex & Super Duplex	: UNS S31803, UNS S32750, UNS S32760,
Hastelloy Alloy	: ASTM B366 Hastelloy B2, Hastelloy C276, Hastelloy C22
Incoloy Alloys	: ASTM B366 Alloy 20, Alloy 800H/800HT, Alloy 825, Alloy A286
Inconel Alloys	: ASTM B366 Alloy 600, Alloy 601, Alloy 625, Alloy 718, Alloy 725,
Monel Alloys	: ASTM B366 Monel 400, Monel K500.
Carbon Steel	: ASTM A234 WPB,A420 WPL3,A420 WPL6, MSS-SP-75 WPHY 42/46/52
Alloy Steel	: ASTM A234WP1,WP5,WP9,WP11,WP22
Size	: 1/4" NB TO 24" NB (seamless) 4" NB TO 72" NB (welded)
Wall Thickness	: Sch. 5s To Sch. XXS

TYPE OF BUTTWELD FITTINGS

- ELBOW (1D/1.5D/3D/5D)
- 180° RETURN BEND / MITER BEND
- EQUAL TEE
- REDUCING TEE / CROSS TEE
- LONG STUBEND
- SHORT STUBEND
- REDUCER (CON./ECC.)
- END CAP / DISH END CAP

Butt Welding Pipe Fittings Dimensional Standard ANSI B-16.9, B-16.28



Nominal Pipe Size		Outside Diameter	Center to Face				Back to Face			Center to Center			Length 'L'	
Inch.	mm	D	A	B	C	N	E	F	G	R	M	S	MSS SP43	ANSI B 16.9
1/2	15	21.3	38	16	25	—	25	48	—	76	—	34.9	50.8	76.2
3/4	20	26.7	38	11	29	—	25	43	—	57	—	42.8	50.8	76.2
1	25	33.4	38	22	38	25	38	56	41	76	51	50.8	50.8	101.6
1 1/4	32	42.2	48	25	48	32	38	70	52	95	64	63.5	50.8	101.6
1 1/2	40	48.3	57	29	57	38	38	83	62	114	76	73.0	50.8	101.6
2	50	60.3	76	35	64	51	38	106	81	152	102	92.0	63.5	152.4
2 1/2	65	73.0	95	44	76	64	38	132	100	191	127	104.8	63.5	152.4
3	80	88.9	114	51	86	76	51	159	121	229	152	127.0	63.5	152.4
3 1/2	90	101.6	133	57	95	89	64	184	140	267	178	139.7	76.2	152.4
4	100	114.3	152	64	105	102	64	210	159	305	203	157.2	76.2	152.4
5	125	141.3	190	79	124	127	76	262	197	381	254	185.7	76.2	203.2
6	150	168.3	229	95	143	152	89	313	237	457	305	215.9	88.9	203.2
8	200	219.1	305	127	178	203	102	414	313	610	406	270.0	101.6	203.2
10	250	273.1	381	159	216	254	127	518	391	762	508	324.0	127.0	254.0
12	300	323.9	457	190	254	305	152	619	467	914	610	381.0	152.4	254.0
14	350	355.6	533	222	279	356	165	711	533	1067	711	412.8	152.4	305.0
16	400	406.4	610	254	305	406	178	813	610	1219	813	470.0	152.4	305.0
18	450	457.2	686	286	343	457	203	914	686	1372	914	533.4	152.4	305.0
20	500	508.0	762	318	381	508	229	1016	762	1524	1016	584.2	152.4	305.0
22	550	559.0	838	343	419	559	254	1118	838	1676	1118	614.4	152.4	305.0
24	600	610.0	914	381	432	610	267	1219	914	1829	1219	692.2	152.4	305.0
26	650	660.0	991	406	495	660	267	—	—	—	—	—	—	—
28	700	711.0	1067	438	521	711	267	—	—	—	—	—	—	—
30	750	762.0	1143	470	559	762	267	—	—	—	—	—	—	—
32	800	813.0	1219	502	597	813	267	—	—	—	—	—	—	—
34	850	864.0	1295	533	635	864	267	—	—	—	—	—	—	—
36	900	914.0	1372	565	673	914	267							
38	950	965.0	1448	600	711	965	305							
40	1000	1016.0	1524	632	749	1016	305							
42	1050	1067.0	1600	660	762	1067	305							
44	1100	1118.0	1676	695	813	1118	343							
46	1150	1168.0	1753	727	851	1168	343							
48	1200	1219.0	1829	759	889	1219	343							



SOCKETWELD FITTINGS

Stainless Steel	: ASTM A182, F304, 304L, 304H, 316, 316L, 317, 317L, 321, 310, 347, 904L
High Nickel	: Monel, Nickel, Inconel, Hastelloy
Carbon Steel	: ASTM A105, A694 F42, A350 LF2
Alloy Steel	: ASTM A182 F1, F5, F9, F11, F22, F91
Size	: 1/4" NB TO 4" NB
Class	: 3000#, 6000#, 9000#

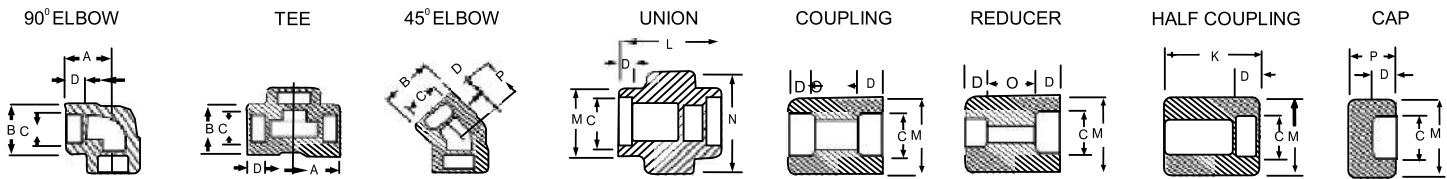


- Stainless Steel & Duplex Steel
- Nickel Alloy & Copper Nickel Alloy
- Carbon Steel & Alloy Steel

Types : Elbow, Tee, Union, Cross, Coup Bushing, Plug, Swage Nipple, Welding Boss, Hexagon Nipple, Barrel Nipple, Welding Nipple, Parraler Nipple, Street Elbow, Hexagon Nut, Hose Nipple, Bend, Adapter, Insert, Weldolet, Elbowlet, Sockolet, Thredolet, Nipolet, Letrolet, etc.

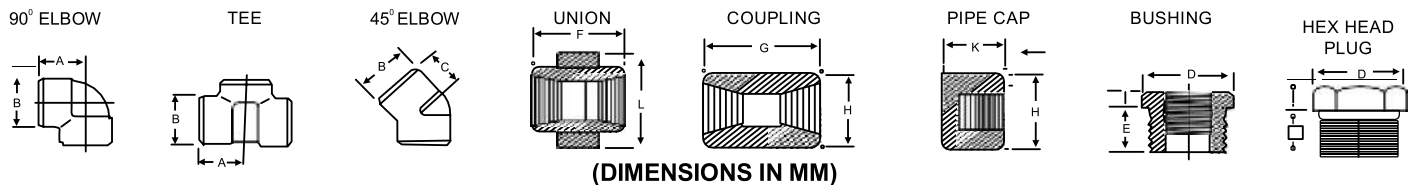
FORGED SCREWED & SOCKET WELD

SOCKET WELD FITTING TO ANSI B-16.11



NOM BORE	PIPE O.D.	3000 LBS.									COMMON FACTORS				6000 LBS.				
		A max.	B max.	K	J	L	M	N	P	Q	C min.	D min.	O min.	O max.	A	B	M	K	N
1/8"	10.3	22	18.5	26	16	40	17.3	32	15	10	10.7	10	5	8	22	22	20	25	46
1/4"	13.7	22	22	26	18	43	21.2	32	15	10	14.1	10	5	8	27	25	24	25	51
3/8"	17.2	25	25	26	19	48	25.4	36	16.5	10	17.6	10	3	9	27	28	28	26	60
1/2"	21.3	27	32	30	21	51	31	41	16.5	10	21.7	10	6	13	31	34	34	31	72
3/4"	26.7	34	38	36	24	57	37	50	19.5	13	27	13	6	13	37	42	41	35	80
1"	33.4	37	46	40	25	64	45.2	60	22.5	13	33.8	13	9	17	42	50	50	40	94
1 1/4"	42.2	42	56	40	29	70	55	70	22.5	13	42.6	13	9	17	47	59	58	41	100
1 1/2"	48.3	47	62	40	30	79	61.4	78	24	13	48.7	13	9	17	53	67	66	43	122
2"	60.3	56	75	52	37	89	75	95	29	13	61.2	16	15	23	59	84	83	55	
2 1/2"	73.02	60	92	52	48	114	91.3	125	32	16	73.8	16	14	24		102		56	
3"	89.00	76	110	52	51	127	108.8	140	35	16	89.8	16	14	24		121		58	
4"	114.50	88	137	58		150	136.9		42	19	115.5	19	14	24		152		64	

FORGED SCREWED FITTING TO ANSI B-16.11 3000/6000 LBS. THREADED TO ASA B 2.1



(DIMENSIONS IN MM)

NOM BORE	PIPE O.D.	3000 LBS							COMMON FACTORS						6000 LBS					
		A	B	C	G	H	K	D	E	F	I	J	L		A	B	C	G	H	K
1/8"	10.3	21	22	17	32	16	19	11	10	40	-	6	-		25	25	19	32	22	-
1/4"	13.7	25	25	19	35	19	25	16	11	43	3	6	32		29	33	22	35	25	27
3/8"	17.2	29	33	22	38	22	25	17.5	13	48	4	8	38		33	38	25	38	32	27
1/2"	21.3	33	38	25	48	29	32	22	15	51	5	8	46		38	46	29	48	38	33
3/4"	26.7	38	46	29	51	35	37	27	16	57	6	10	51		44	56	33	51	44	38
1"	33.4	44	56	33	60	44	41	35	19	64	6	10	60		51	62	35	60	57	43
1 1/4"	42.2	51	62	35	67	57	44	44.5	21	70	7	14	72		60	75	43	67	64	46
1 1/2"	48.3	60	75	43	79	64	44	51	21	79	8	16	80		64	84	44	79	76	48
2"	60.3	64	84	45	86	76	48	63.5	22	88	9	17	94		83	102	52	86	92	51
2 1/2"	73.02	83	102	52	92	92	60	76	27	118	10	21	122		95	121	64	92	108	64
3"	89.0	95	121	64	108	108	65	89	29	121	10	25	140		106	146	79	108	127	68
4"	114.5	114	152	79	121	140	68	117.5	32	150	13	25	180		114	152	79	121	159	75

DIMENSIONS AND OTHERS SPECIFICATIONS AS PER CUSTOMERS REQUIREMENTS ARE AVAILABLE ON REQUEST



FLANGES.....

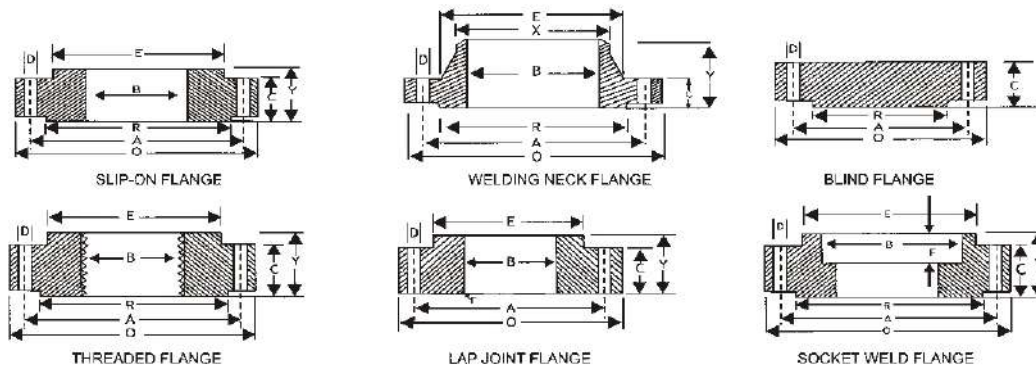
- Stainless Steel
- Nickel Alloy & Duplex Steel
- Carbon Steel

Stainless Steel	: ASTM A182, F304, 304L, 304H, 316, 316L, 317, 317L, 321, 310, 347, 904L
Duplex & Super Duplex	: UNS S31803, UNS S32750, UNS S32760,
Hastelloy Alloy	: ASTM B564 Hastelloy B2, C276, C22
Incoloy Alloys	: ASTM B564 Alloy 20, Alloy A286 Alloy 800H/800HT, Alloy 825,
Inconel Alloys	: ASTM B564 Alloy 600, Alloy 601, Alloy 625, Alloy 718, Alloy 725,
Monel Alloys	: ASTM B564 Monel 400, Monel K500.
Carbon Steel	: ASTM A105, A694 F42, A350 LF2
Alloy Steel	: ASTM A182 F1, F5, F9, F11, F22, F91
Size	: 1/2" NB TO 72" NB
Class	: 150#, 300#, 600#, 900#, 1500# & 2500#.



TYPE

- SLIP-ON FLANGE
- LAP JOINT FLANGE
- WELDNECK FLANGE
- ORIFACE FLANGE
- LONG WELD NECK FLANGE
- THREADED FLANGE
- SOCKETWELD FLANGE
- BLIND FLANGE (DUMMY FLANGE)
- RTJ FLANGE
- TABLE FLANGES (D, E, F, H TABLE)



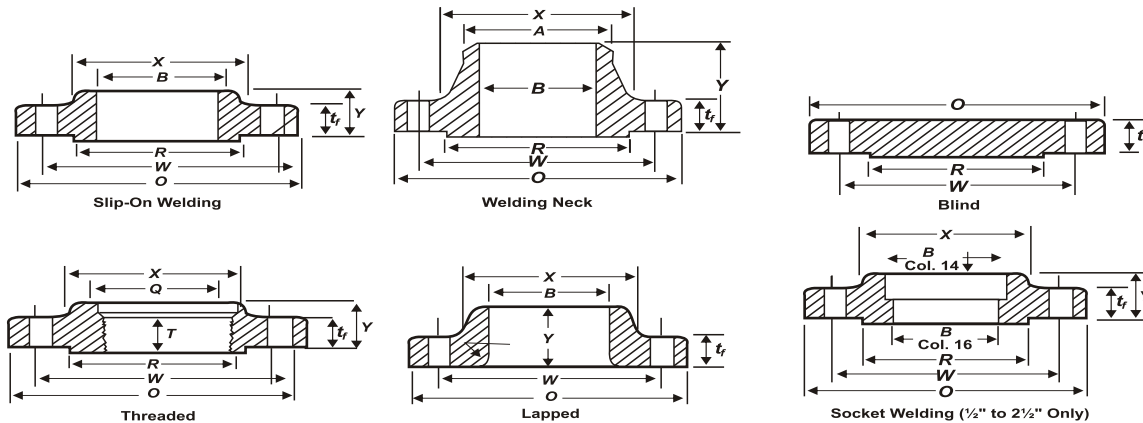
Dimensions of Class 150 Flanges as per ANSI B 16.5

Nominal Pipe Size (MM) (INCH.)	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. of Holes	Thk. of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B		
15	1/2	88.9	60.3	4	11.1	30.2	15.9	47.6	15.9	22.3	22.9	34.9	9.5
20	3/4	98.4	69.8	4	12.7	38.1	15.9	52.4	15.9	27.7	28.2	42.9	11.1
25	1	107.9	79.4	4	14.3	49.2	17.5	55.6	17.5	34.5	35.0	50.8	12.7
32	1 1/4	117.5	88.9	4	15.9	58.7	20.6	57.1	20.6	43.2	43.7	63.5	14.3
40	1 1/2	127.0	98.4	4	17.5	65.1	22.2	61.9	22.2	49.5	50.0	73.0	15.9
50	2	152.4	120.6	4	19.0	77.8	25.4	63.5	25.4	62.0	62.5	92.1	17.5
65	2 1/2	177.8	139.7	4	22.2	90.5	28.6	69.8	28.6	74.7	75.4	104.8	19.0
80	3	190.5	152.4	4	23.8	107.9	30.2	69.8	30.2	90.7	91.4	127.0	20.6
100	4	228.6	190.5	8	23.8	134.9	33.3	76.2	33.3	116.1	116.8	157.2	23.8
125	5	254.0	215.9	8	23.8	163.5	36.5	88.9	36.5	143.8	144.5	185.7	23.8
150	6	279.4	241.3	8	25.4	192.1	39.7	88.9	39.7	170.7	171.4	215.9	27.0
200	8	342.9	298.4	8	28.6	246.1	44.4	101.6	44.4	221.5	222.2	269.9	31.7
250	10	406.4	361.9	12	30.2	304.8	49.2	101.6	49.2	276.3	277.4	323.8	33.3
300	12	482.6	431.8	12	31.8	365.1	55.6	114.3	55.6	327.1	328.2	381.0	39.7
350	14	533.4	476.2	12	34.9	400.0	57.1	127.0	79.4	359.1	360.2	412.7	41.3
400	16	596.9	539.7	16	36.5	457.2	63.5	127.0	87.3	410.5	411.2	469.9	44.4
450	18	635.0	577.8	16	39.7	504.8	68.3	139.7	96.8	461.8	462.3	533.4	49.2
500	20	698.5	635.0	20	42.9	558.8	73.0	144.5	103.2	513.1	514.3	584.2	54.0
600	24	812.8	749.3	20	47.6	663.6	82.5	152.4	111.1	615.9	615.9	692.1	63.5

Dimensions of Class 300 Flanges as per ANSI B 16.5

Nominal Pipe Size (MM) (INCH.)	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. of Holes	Thk. of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B		
15	1/2	95.2	66.7	4	14.3	38.1	22.2	52.4	22.2	22.3	22.9	34.9	9.5
20	3/4	117.5	82.5	4	15.9	47.6	25.4	57.1	25.4	27.7	28.2	42.9	11.1
25	1	123.8	88.9	4	17.5	54.0	27.0	61.9	27.0	34.5	35.0	50.8	12.7
32	1 1/4	133.3	98.4	4	19.0	63.5	27.0	65.1	27.0	43.2	43.7	63.5	14.3
40	1 1/2	155.6	114.3	4	20.6	69.8	30.2	68.3	30.2	49.5	50.0	73.0	15.9
50	2	165.1	127.0	8	22.2	84.1	33.3	69.8	33.3	62.0	62.5	92.1	17.5
65	2 1/2	190.5	149.2	8	25.4	100.0	38.1	76.2	38.1	74.7	75.4	104.8	19.0
80	3	209.5	168.3	8	28.6	117.5	42.9	79.4	42.9	90.7	91.4	127.0	20.6
100	4	254.0	200.0	8	31.8	146.0	47.6	85.7	47.6	116.1	116.8	157.2	23.8
125	5	279.4	234.9	8	34.9	177.8	50.8	98.4	50.8	143.8	144.5	185.7	-
150	6	317.5	269.9	12	36.5	206.4	52.4	98.4	52.4	170.7	171.4	215.9	-
200	8	381.0	330.2	12	41.3	260.3	61.9	111.1	61.9	221.5	222.2	269.9	-
250	10	444.5	387.3	16	47.6	320.7	66.7	117.5	95.2	276.3	277.4	323.8	-
300	12	520.7	450.8	16	50.8	374.6	73.0	130.2	101.6	327.1	328.2	381.0	-
350	14	584.2	514.3	20	54.0	425.4	76.2	142.9	111.1	359.1	360.2	412.7	-
400	16	647.7	571.5	20	57.2	482.6	82.5	146.0	120.6	410.5	411.2	469.9	-
450	18	711.2	628.5	24	60.3	533.4	88.9	158.7	130.2	461.8	462.3	533.4	-
500	20	774.7	685.8	24	63.5	587.4	95.2	161.9	139.7	513.1	514.3	584.2	-
600	24	914.4	812.8	24	69.8	701.7	106.4	168.3	152.4	615.9	615.9	692.1	-

All Dimensions are in Millimeters Flanges except Lap Joint will be furnished with (1.6) Raised Face, which is included in "Thickness(C)" and "Length through Hub(Y)"



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 Flange, Min., t _f	Diameter of Hub, X	Drilling			Hub Diameter Beginning of Chamfer Welding Neck, A	Length Thru Hub			Threaded/ Length Threaded Min., T	Bore			Corner Radius of Bore of Lapped Flange and Pipe, r	Counter- bore Threaded FLANGE Min., Q	Depth of Socket, D	Diameter of RF R
				Diameter of Bolt Circle W	Diameter of Bolt Holes, in.	Number of Bolts		Threaded/ Slip-On/ Socket Welding, Y	Lapped, Y	Welding Neck, Y		Slip-On/ Socket Welding Min., B	Lapped Min., B	Welding Neck/ Socket Welding, B				
1/2	95.5	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	117.5	15.9	48	82.6	19.1	4	26.7	25	25	57	16	27.7	28.2		3	29.0	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
1 1/4	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
1 1/2	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
2 1/2	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
3 1/2	228.5	35.0	133	184.2	25.4	8	101.6	49	49	86	40	103.4	104.1		10	104.9	....	139.7
4	273.0	38.1	152	215.9	25.4	8	114.3	54	51	102	42	116.1	116.8	To be Specified by Purchaser	11	117.6	....	157.2
5	330.0	44.5	189	266.7	28.6	8	141.3	60	54	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	57	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	68	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	102	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	108	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	117	165	74	359.2	360.2		13	360.4	....	412.8
16	686.0	76.2	495	603.2	41.3	20	406.4	106	127	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	137	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	146	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	159	203	93	616.0	616.0		13	614.4	....	692.2

NOTE : (1) Height of RF 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 Flange, Min., t _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/ Socket Welding, Y	Lapped, Y	Welding Neck, Y		Slip-On/ Socket Welding Min., B	Lapped Min., B	Welding Neck/ Socket Welding, B				
1/2	120.7	22.3	38	82.6	22.3	4	21.3	32	32	60	23	22.2	22.9		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
1 1/4	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
1 1/2	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
2 1/2	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	To be Specified by Purchaser	11	117.6	139.7	
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	83	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	93	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 RF 7mm

PRODUCT RANGE



Stainless Steel : 304/ 304L/ 316/ 316L/ 310/ 904L Etc.
Design : 1PC / 2PC/ 3PC,
Ends : Screwed/ Socket Weld Flanged
Threaded, Size : 15 mm To 100mm
Flanged End, Size : 15mm To 250mm
High Nickel Alloy : Monel, Nickel, Inconel, Hastalloy, Bronze, Brass, Titanium
Rating : 150#/1300#/ 800 #/1500 #
Ends : Screwed / Socket Weld/ Flange End)

FORGED BALL VALVE

BS 6755 / BS 1868

Stainless Steel (Forged), 304, 304L, 316, 316L

ASME B 16.34 API 6D

High Nickel Alloy : Monel, Nickel, Inconel, Hastalloy, Bronze, Brass, Titanium,

Rating : 150#/1300#/ 800# / 1500#

Size : 15 mm To 100 mm,



NON RETURN / SCREWED VALVE



Stainless Steel, Cast Iron : API 609/BS 5155/18S 13095
Size : 15mm To 250mm
Type : Wafer Type, Flange End Type
Ends : Wafer Type/double Flange,
Design : Lug Type
Operation : Lever / Manual Gear
Design : Sure Seal / Replaceable, Rubber Lining
Mfg. Std : BS 5155 / AWWA C 504 API 609/IS 13095

BUTTERFLY VALVE

BS 5352 BS 6755 / BS1813 / BS 6755 ASME B 13.4 DIN 3356

Stainless Steel (Bar Stock)

Rating : 150x300#/800#/1500#, **Size** : 15 Mm To 400 Mm

Forged Carbon Steel S. Steel

Rating : 150# / 300# / 800/1500#, **Size** : 15mm To 400mm

Cast Carbon Steel S.steel Alloy Steel

Rating : 150#/1300#/ 800 #/1500 #, **Size** : 15 Mm To 400 Mm

Cast Iron

Rating :125 / 150#, **Size** : 25mm To 600mm



GLOBAL VALVE

PRODUCT RANGE



Sheet, Plate & Coil

Stainless Steel Coils, Sheets & Plates as per ASTM A 240 Gr. TP 202, 304, 304L, 304LN, 309, 309S, 309H, 310S, 310H, 316, 316L, 316H, 316LN, 316TI, 317, 317L, 321, 321H, 347, 347H, 348, 348H, 409, 410, 420, 430 Etc.

Alloy Steel Plates as per ASTM A 387 Gr. 2, 5, 9, 11, 12 & 22 in class 1 & 2, ASTM A 204, Gr. A & B, DIN 17175 Gr. 15Mo3 & 16Mo3 with IBR Test Certificate.

Carbon Steel / Boiler Quality Plates as per IS 2062 Gr. A, B & C, IS 2002 Gr. 1 & 2, ASTM A516 Gr. 60 & 70 ASTM A515 Gr. 70.

Other Alloys : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Brass, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead Etc.

Duplex & Super Duplex Steel : UNS S31803, UNS S32750, UNS 532760, 904L, Alloy 20

Types : Sheet, Plates, Strips Etc.

Elements : Nipplet, Elbowlet, Latrolet, Sockolet & Weldolet, Thredolet

Stainless Steel ASTM A-182, F304L, 316L, 310, 904L

Carbon Steel ASTM A 105

Size : B/W Standard & Extra Long 1/8" To 24", Sch. 160 1/2" To 6"

3000# Threaded And S/W 1/8" To 4", 6000# Threaded And S/W 1/2" To 2"

Rating : 3000# (for Small Bore Branches)

Ends : Nipplet : Plain End, Sockolet : S/W End,

Weldolet & Elbowlet : B/W, Letrolet : S/W, B/W (as Per Branch Size)

Grade : Duplex, Super Duplex, Inconel, Monel, Hastelloy C, Nickel Alloy, Alloy 20 Etc.

Dim Standard : MSS-SP-97



OLETS

Stainless Steel : ASTM A182 F304/304L/304H/316/316L/317/317L/321/310/347/904L Etc.

Carbon Steel : ASTM A105 / A694 F42/46/ 52/56/ 60/65/70 /A350 LF3/ A350 LF2.

Alloy Steel : ASTM A182 F1/ F5/ F9/ F11/ F22/F91 Etc.

Duplex & Super Duplex Steel : UNS S31803, UNS S32750, UNS S32760

Other Alloys : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Alloy 20 Etc.

Types : Nipples, Adaptors, Crosses, Union Ball Joints, Reducing Bushing, Reducers, Pipe Caps, Couplings, Pipe Plug, Hollow Hex Plug, Elbow, Reducing Union, 90 Deg. Union Elbow, Reducing 90 Deg. Union Elbow Etc. Extender Leg 90 Deg. Union Elbow, 45 Deg. Union Elbow, Union Tee, Female Connector, Male Connector, Manifold Tee, Locator Union, Extended Run Leg Union Tee, Reducing Tee, Tribow, ATW Weld Ring, Tube Socket weld To Pipe Butt Weld, Tube Butt Weld To Tube Socket Weld, Port Connector Etc.



Ferrule Fittings

Stainless Steel : As per ASTM A276 & A479 Grade 202 / 304 / 304L / 316 / 316L / 316Ti / 317 / 317L / 321 / 310 / 347 / 410/416/420/430/440C/904 / 303 / 17-4PH, 15-5 PH Etc.

Nickel Alloys : Monel, Inconel, Hastelloy, Nickel, Titanium, Alloy 20

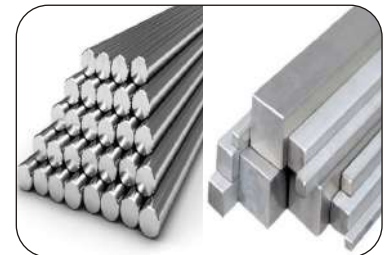
Duplex & Super Duplex : UNS 32205, 31803, 32750, 32760,

Types : Round, Square, Rectangular.

Size : 3mm - 75 mm dia ready stock with Mill Test Certificate

Process : Cold Drawn, Annealed, Export Bright & Black

Tolerance : H9, H11



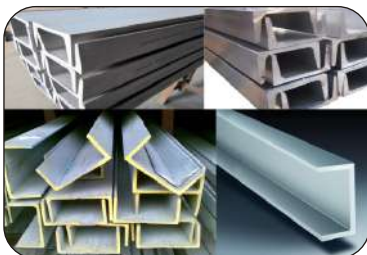
Round, Square & Hex Bar

FLATS, ANGLE, CHANNEL & BEAM

Stainless Steel: SA 240 TP 304/ 304L/ 304H/ 316/ 316L/ 316Ti/ 317/ 317L/ 321/ 309/ 310/ 347/ 409/ 410/ 430/ 904L Etc.

Other Alloys : Nickel, Monel, Inconel, Hastelloy, Alloy20, Incoloy, Duplex & Super Duplex, 5M06-254, Carbon Steel, Alloy Steel, Copper, Brass, Cupro Nickel, Aluminium, Titanium Etc.,

Types : Angle, Channel, Flat Bar, Beams Etc.



Flat, Angle, Channel & Beam

BRASS TUBES



Copper	DHP Copper, ETP Copper, DPA Copper OFHC Copper
BRASS	63 / 37 Brass, 70 / 30 Brass, Admiralty Brass, Aluminium Brass & other Compositions of Brass.
CUPRONICKEL	95 / 5 alloy, 90 / 10 alloy & 70 / 30 alloy.
BRONZES	Phosphorous Bronze Aluminium Bronze & Gun Metal, Phosphorous Bronze A B1 / A B2 Bush Round.

COPPER PRODUCTS



TUBES

2mm OD to 200mm OD with Wall thickness of
0.10 mm to 15 mm in length upto 10 mtrs straight
(in coils upto 25 mtrs) in copper, Brass & Curpronickel.

RODS

In all size upto 160mm diameter in Copper, Brass and Bronzes.

STRIPS / PROFILES

Copper Strips and sections as per clients specific requirements.

WIRES

Copper wires upto 42 swg in bright annealed condition.

S. E. WIRES

Super enamelled copper wires upto 42 swg.

BRASS RODS



SPECIFICATIONS

Indian Standard Specification (ISS)
British Standard Specification (BSS)
American Standard for Testing of Material (ASTM)
As per Parties Specific Specifiaction.

COPPER TUBE & SECTIONS



TESTING FACILITIES



- Chemical Analysis
- Physical Testing
- Hardness Testing
- Hydrostatic Testing
- Pneumatic Testing
- Stress Corrossion Testing
- Dimensional Inspection
- Destructive Testing- Flattening,
- Drift Test,
- Bend Test etc.
- NDT - Eddy Current Testing



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