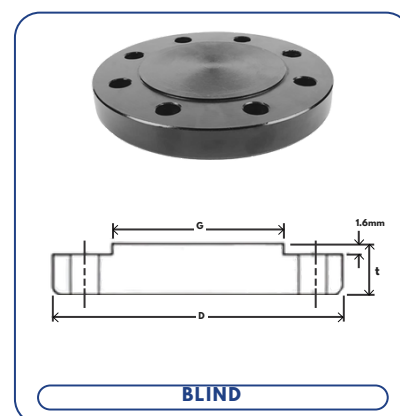
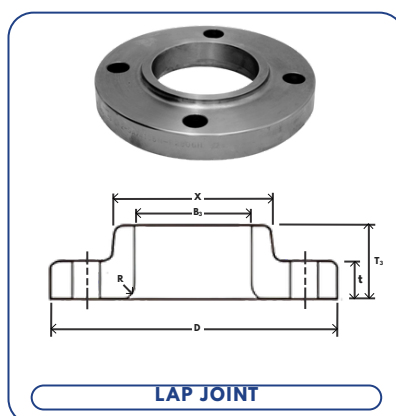
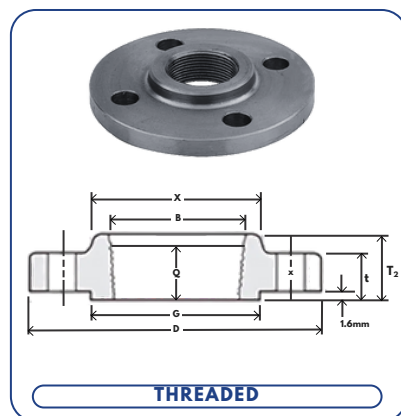
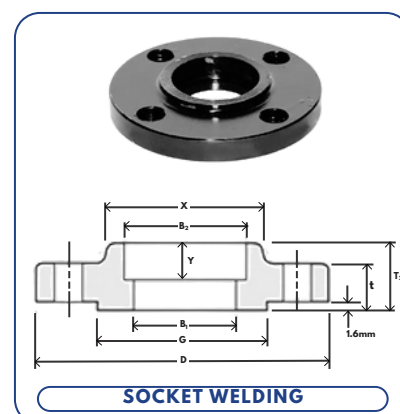
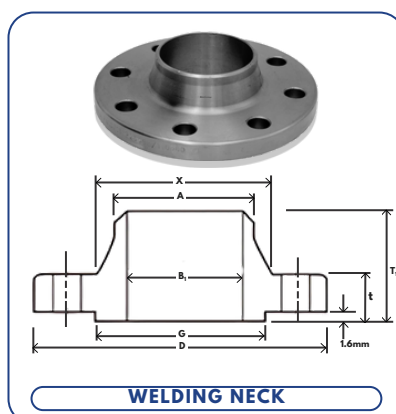
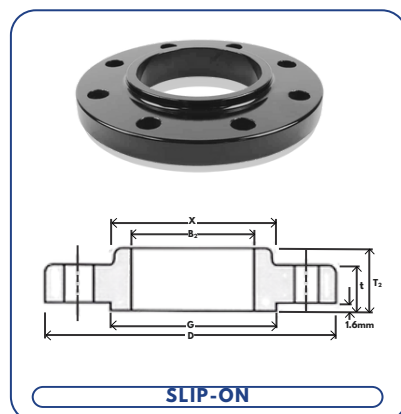


BIFIX

FORGED CARBON STEEL ASTM A105



CLASS 150 FLANGES

ASME B16.5 FORGED FLANGES

ASME B16.5

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	O.D. OF RAISED FACE	DIAM. AT BASE OF HUB	THICKNESS	BORE			LENGTH THRU HUB			Diam. of Hub at Bevel	Radius of Filler	Thread Length
					Welding Neck Socket Welding	Slip-On Socket Welding	Lap Joint	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint			
	D	G	x	t	B ₁	B ₂	B ₃	T ₁	T ₂	T ₃	A	R	Q
1/2	88.9	35.1	30.2	11.2	15.7	22.4	22.9	47.8	15.7	15.7	21.3	3.0	15.7
3/4	98.6	42.9	38.1	12.7	20.8	27.7	28.2	52.3	15.7	15.7	26.7	3.0	15.7
1	108.0	50.8	49.3	14.2	26.7	34.5	35.1	55.6	17.5	17.5	33.5	3.0	15.7
1-1/4	117.3	63.5	58.7	15.7	35.1	43.2	43.7	57.2	20.6	20.6	42.2	5.0	20.6
1-1/2	127.0	73.2	65.0	17.5	40.9	49.5	50.0	62.0	22.4	22.4	48.3	6.0	22.4
2	152.4	91.9	77.7	19.1	52.6	62.0	62.5	63.5	25.4	25.4	60.5	8.0	25.4
2-1/2	177.8	104.6	90.4	22.4	62.7	74.7	75.4	69.9	28.4	28.4	73.2	8.0	28.4
3	190.5	127.0	108.0	23.9	78.0	90.7	91.4	69.9	30.2	30.2	88.9	10.0	30.2
3-1/2	215.9	139.7	122.2	23.9	90.2	103.4	104.1	71.4	31.8	31.8	101.6	10.0	31.8
4	226.6	157.2	134.9	23.9	102.4	116.1	116.8	76.2	33.3	33.3	114.3	11.0	33.3
5	254.0	185.7	163.6	23.9	128.3	143.8	144.5	88.9	35.6	35.6	141.2	11.0	35.6
6	279.4	215.9	192.0	25.4	154.2	171.5	171.5	88.9	39.6	39.6	169.4	13.0	39.6
8	342.9	269.7	246.1	28.4	202.7	221.5	222.3	101.6	44.5	44.5	219.2	13.0	44.5
10	406.4	323.9	304.8	30.2	254.5	276.4	277.4	101.6	49.3	49.3	273.1	13.0	49.3
12	482.6	381.0	365.3	31.8	304.8	327.2	328.2	114.3	55.6	55.6	323.9	13.0	55.6
14	533.4	412.8	400.1	35.1	336.6	359.2	360.2	127.0	57.2	57.2	355.6	13.0	57.2
16	596.9	469.9	457.2	36.6	387.4	410.5	411.2	127.0	63.5	63.5	406.4	13.0	63.5
18	635.0	533.4	505.5	39.6	438.2	461.6	462.3	139.7	68.3	68.3	457.2	13.0	68.3
20	698.5	584.2	558.8	42.9	469.0	513.1	514.4	144.5	73.2	73.2	508.0	13.0	73.2
24	815	692.2	663.4	47.8	590.6	616.0	616.0	152.4	82.6	82.6	609.6	13.0	82.6

NOTES:

(1) For the 'Bore' (B1) other than Standard Wall Thickness, refer to page 50, 51.

(2) Class 150 flanges except Lap Joint will be furnished with 0.06" (1.6mm) raised face, which is included in 'Thickness' (t) & 'Length through Hub' (T1, T2).

(3) For Slip-On, Threaded, Socket Welding & Lap Joint Flanges, the hubs can be shaped either vertical from base to top or tapered within the limits of 7 degrees.

(4) Blind Flanges may be made with the same hub as that used for Slip-On Flanges or without hub.

(5) The gasket surface & backside (bearing surface for bolting) are made parallel within 1 degree. To accomplish parallelism, spot facing is carried out according to MSS AP-9, without reducing thickness (1).

(6) Depth of Socket(Y) is covered by ANSI B16.5 only in sizes through 3 inch, over 3 inch is at the manufacturer's option.

NOMINAL PIPE SIZE	DEPTH OF SOCKET	DRILLING			BOLTING			APPROXIMATE WEIGHT									
		BOLT CIRCLE DIAM.	NUMBER OF HOLES	DIAM OF HOLES	DIAM OF BOLT (inch)	MACHINE BOLT LENGTH	STUD BOLT LENGTH	Welding Neck		Slip-On & Threaded		Lap Joint		Blind		Socket Welding	
	Y					RAISED FACE	RAISED FACE	RING JOINT	Kg	lb	Kg	lb	Kg	lb	Kg	lb	lb
1/2	9.7	60.5	4	15.8	1/2	50	55	-	0.52	1.10	0.47	1.00	0.51	1.00	0.47	1.00	1.00
3/4	11.2	69.9	4	15.8	1/2	50	65	-	0.92	1.60	0.75	1.30	0.70	1.40	0.70	1.30	1.30
1	12.7	79.2	4	15.8	1/2	55	65	75	1.10	2.40	0.86	1.90	0.93	1.80	0.95	2.10	1.90
1-1/4	14.2	88.9	4	15.8	1/2	55	70	85	1.40	3.10	1.40	2.40	1.40	2.00	1.40	2.70	2.40
1-1/2	15.7	98.6	4	15.8	1/2	65	70	85	1.81	4.00	1.41	3.10	1.51	3.30	1.62	3.60	3.20
2	17.5	120.7	4	19.1	1/2	70	85	95	2.80	5.70	2.26	5.00	2.36	5.20	2.64	5.80	5.00
2-1/2	19.1	139.7	4	19.1	1/2	75	90	100	4.28	9.40	3.60	7.60	3.60	7.90	4.10	9.00	7.80
3	20.6	152.4	4	19.1	1/2	75	90	100	5.18	11.40	4.10	8.50	4.04	8.90	5.00	10.80	8.90
3-1/2	22.4	177.8	8	19.1	5/8	75	90	100	5.50	12.00	5.20	11.00	4.99	11.00	6.40	13.00	11.00
4	23.9	190.5	8	19.1	5/8	75	90	100	7.32	16.10	5.75	12.70	5.96	13.00	7.50	16.30	13.20
5	25.9	215.9	8	22.2	3/4	85	95	110	8.91	19.60	6.51	13.70	6.44	14.00	9.00	19.30	16.70
6	26.9	241.3	8	22.2	3/4	85	100	115	11.26	24.80	7.81	16.30	7.70	16.70	12.00	24.90	17.60
8	31.8	298.5	8	22.2	3/4	90	110	120	18.00	39.00	13.00	27.30	12.66	27.90	21.00	43.90	29.30
10	33.3	362.0	12	25.4	3/4	100	115	125	25.00	54.70	18.50	37.70	17.00	37.00	30.00	64.80	43.00
12	39.6	431.8	12	25.4	3/4	100	120	135	38.98	85.90	28.00	61.00	28.30	62.40	45.00	96.30	64.00
14	41.4	476.3	12	28.5	1	115	135	145	51.71	114.00	36.00	77.60	41.50	91.50	64.00	140.00	85.00
16	44.5	539.8	16	28.5	1	135	145	160	64.41	142.00	46.00	93.00	52.98	116.80	79.00	170.00	98.00
18	49.3	577.9	16	31.8	1-1/8	125	145	160	74.84	165.00	54.00	109.60	68.00	130.00	90.00	209.00	120.00
20	54.1	635.0	20	31.8	1-1/8	140	160	170	89.36	197.00	73.00	140.00	85.00	159.00	125.00	272.00	155.00
24	63.5	749.3	20	35.1	1-1/4	150	170	185	119.66	263.80	96.00	199.50	120.00	218.30	190.00	415.00	210.00