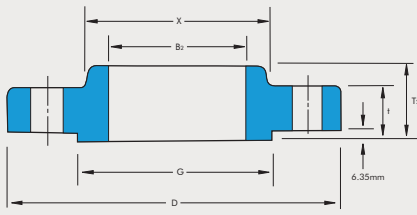
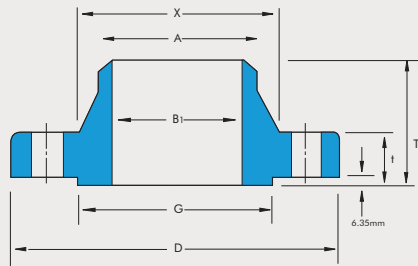


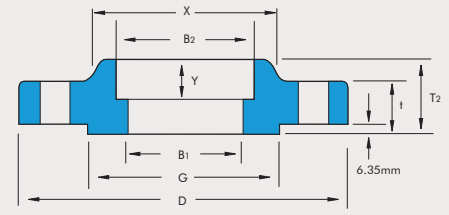
# CLASS 600 FLANGES



SLIP-ON



WELDING NECK



SOCKET WELDING

## ANSI B16.5 FORGED FLANGES

Unit:mm

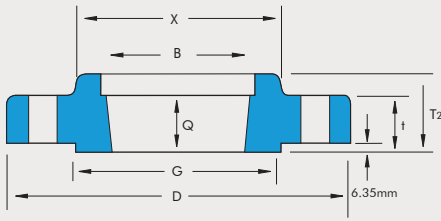
Nominal Pipe Size	Outside Dia.	Dia. at Base of Hub	O.D. of Raised Face	Thickness	BORE				LENGTH THRU HUB			Diam. Of Hub at Bevel	Radius of Fillet	Thread Length
					Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Counter Bore Min Theaded Min	Welding Neck	Slip on Threaded Socket Welding	Lap Joint			
	D	X	G	t	B1	B2	B3	B	T1	T2	T3	A	R	Q
1/2	95	38.1	35.1	14.2		22.4	22.9	23.6	52.3	22.4	22.4	21.3	3.0	15.7
3/4	117	47.8	42.9	15.7		27.7	28.2	29.0	57.2	25.4	25.4	26.7	3.0	15.7
1	124	53.8	50.8	17.5	See	34.5	35.1	35.8	62.0	26.9	26.9	33.5	3.0	17.5
1.1/4	133	63.5	63.5	20.6	Notes	43.2	43.7	44.5	66.5	28.4	28.4	42.2	4.8	20.6
1.1/2	155	69.9	73.2	22.4	(1)	49.5	50.0	50.5	69.9	31.8	31.8	48.3	6.4	22.4
2	165	84.1	91.9	25.4	To be	62.0	62.5	63.5	73.2	36.6	36.6	60.5	7.9	28.4
2.1/2	191	100.1	104.6	28.4	specified	74.7	75.4	76.2	79.2	41.1	41.1	73.2	7.9	31.8
3	210	117.3	127.0	31.8	by	90.7	91.4	92.2	82.6	46.0	46.0	88.9	9.7	35.1
3.1/2	229	133.4	139.7	35.1	purchaser	103.4	104.1	104.9	85.9	49.3	49.3	101.6	9.7	39.6
4	273	152.4	157.2	38.1		116.1	116.8	117.6	101.6	53.8	53.8	114.3	11.2	41.1
5	330	189.0	185.7	44.5		143.8	144.5	144.5	114.3	60.5	60.5	141.2	11.2	47.8
6	356	222.3	215.9	47.8		170.7	171.5	171.5	117.3	66.5	66.5	168.4	12.7	50.8
8	419	273.1	269.7	55.6		221.5	222.3	222.3	133.4	76.2	76.2	219.2	12.7	57.2
10	508	342.9	323.9	63.5		276.4	277.4	276.4	152.4	85.9	111.3	273.1	12.7	65.0
12	559	400.1	381.0	66.5		327.2	328.2	328.7	155.4	91.9	117.3	323.9	12.7	69.9
14	603	431.8	412.8	69.9		359.2	360.2	360.4	165.1	93.7	127.0	355.6	12.7	73.2
16	686	495.3	469.9	76.2		410.5	411.2	411.2	177.8	106.4	139.7	406.4	12.7	77.7
18	743	546.1	533.4	82.6		461.8	462.3	462.0	184.2	117.3	152.4	457.2	12.7	79.2
20	813	609.6	584.2	88.9		513.1	514.4	512.8	190.5	127.0	165.1	508.0	12.7	82.6
24	940	717.6	692.2	101.6		616.0	616.0	614.4	203.2	139.7	184.2	609.6	12.7	91.9

**Note :** (1) For the inside diameter of pipes (corresponding to 'Bore' (B1) of Welding Neck Flanges), refer to page.

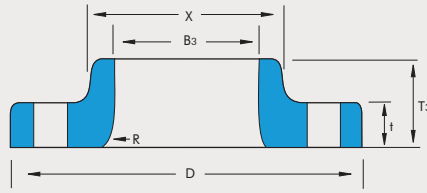
(2) Class 600 flanges except Lap Joint will be furnished with 0.25" raised face, which is not included in 'Thickness' (t) and 'Length through Hub' (T<sub>1</sub>), (T<sub>2</sub>).

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

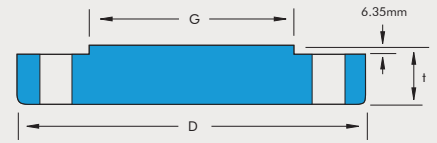
# CLASS 600 FLANGES



THREADED



LAP JOINT



BLIND

Unit:mm

Nominal Pipe Size	Depth of Socket	DRILLING			BOLTING				APPROXIMATE WEIGHT											
		Bolt Circle Dia.	Number of Holes	Dia. of Holes	Dia. of Bolts (inch)	Stub 0.25" Raised Face	Bolt Male Female Tongue-Groove	Length Ring Joint	Welding Neck		Slip - on and Threaded		Lap Joint		Blind		Socket Welding			
Y									Kg.	lb	Kg.	lb	Kg.	lb	Kg.	lb	Kg.	lb	Kg.	lb
1/2	9.7	66.5	4	15.7	1/2	76.2	69.9	76.2	0.90	2.00	0.91	2.00	0.80	1.80	0.91	2.00	0.91	2.00		
3/4	11.2	82.6	4	19.1	5/8	88.9	82.6	88.9	1.59	3.50	1.40	3.00	1.36	3.00	1.40	3.00	1.36	3.00		
1	12.7	88.9	4	19.1	5/8	88.9	82.6	88.9	1.90	4.00	1.70	3.70	1.59	3.50	1.81	4.00	1.81	4.00		
1.1/4	14.2	98.6	4	19.1	5/8	95.3	88.9	95.3	2.49	5.50	2.27	5.00	2.04	4.50	2.40	5.30	2.60	5.70		
1.1/2	15.7	114.3	4	22.4	3/4	108.0	101.6	108.0	3.63	8.00	3.10	6.80	2.94	6.50	3.40	7.50	3.18	7.00		
2	17.5	127.0	8	19.1	5/8	108.0	101.6	108.0	4.54	10.00	3.63	8.00	3.63	8.00	4.40	9.70	3.90	8.60		
2.1/2	19.1	149.4	8	22.4	3/4	120.7	114.3	120.7	6.35	14.00	5.44	12.00	4.99	11.00	6.80	15.00	5.90			
3	20.6	168.1	8	22.4	3/4	127.0	120.7	127.0	8.16	18.00	7.26	16.00	6.35	14.00	8.90	19.60	7.40			
3.1/2	22.4	184.2	8	25.4	7/8	139.7	133.4	139.7	11.80	26.00	9.53	21.00	9.08	20.00	13.17	29.00				
4	23.9	215.9	8	25.4	7/8	146.1	139.7	146.1	16.78	37.00	14.97	33.00	14.06	31.00	18.60	41.00				
5	23.9	266.7	8	28.4	1	165.1	158.8	165.1	30.87	68.00	28.50	62.80	27.50	60.60	30.84	68.00				
6	26.9	292.1	12	28.4	1	171.5	165.1	171.5	36.77	80.00	36.32	80.00	35.38	78.00	38.00	83.80				
8	31.8	349.3	12	31.8	1.1/8	190.5	184.2	196.9	50.80	112.00	44.00	97.00	50.80	112.00	62.20	137.00				
10	33.3	431.8	16	35.1	1.1/4	215.9	209.6	215.9	86.26	190.00	76.20	168.00	74.00	163.00	102.00	224.90				
12	39.6	489.0	20	35.1	1.1/4	222.3	215.9	222.3	102.51	226.00	97.52	215.00	108.86	240.00	132.00	291.00				
14	41.4	527.1	20	38.1	1.3/8	235.0	228.6	235.0	121.56	268.00	102.00	224.80	111.00	244.70	158.00	348.30				
16	44.5	603.3	20	41.1	1.1/2	254.0	247.7	254.0	177.06	290.00	149.82	330.20	165.71	365.30	224.73	495.40				
18	49.3	654.1	20	44.5	1.5/8	273.1	266.7	273.1	215.65	475.40	180.10	412.30	194.00	427.70	285.00	628.30				
20	54.1	723.9	24	44.5	1.5/8	285.8	279.4	292.1	267.86	590.50	231.54	510.50	258.78	570.50	365.00	804.70				
24	63.5	838.2	24	50.8	1.7/8	330.2	323.9	336.6	372.00	820.00	330.00	725.50	362.00	798.00	533.45	1176.00				

- Note :**
- (4) Blind Flanges may be made with the same hub as that used for Slip-on Flanges o4r without hub
  - (5) The gasket surface and backside (lbearing surface for bolting) are made p0arallel with 1 degree. To accomplish parallelism, splot facing is carried out according to MSS SP-9, without reducing thickness(t).
  - (6) Dimensions of sizes 1/2" through 3.1/2" are the same as for Class 400 Flanges.
  - (7) 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.

