



CLASS 150 FLANGES

ASME B16.5

ASME B16.5 FORGED FLANGES

Nominal Pipe Size	Outside Diam.	O.D. of Raised Face	Diam. at Base of Hub	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	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint			
					B1	B2	B3	T1	T2	T3			
	D	G	x	t	B1	B2	B3	T1	T2	T3	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	17.5
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	228.6	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	36.6	36.6	141.2	11.0	36.6
6	279.4	215.9	192.0	25.4	154.2	170.7	171.5	88.9	39.6	39.6	168.4	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	79.2	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	87.4	406.4	13.0	63.5
18	635.0	533.4	505.5	39.6	438.2	461.8	462.3	139.7	68.3	97.0	457.2	13.0	68.3
20	698.5	584.2	558.8	42.9	489.0	513.1	514.4	144.5	73.2	103.1	508.0	13.0	73.2
24	815	692.2	663.4	47.8	590.6	616.0	616.0	152.4	82.6	111.3	609.6	13.0	82.6

Notes

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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 and Threaded		Lap Joint		Blind		Socket Welding	
						Raised Face	Raised Face	Ring Joint	Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg
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	0.47	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	1.40	0.76	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	0.90	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	1.43	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	36.0	15.0	3.20	
2	17.5	120.7	4	19.1	5/8	70	85	95	2.80	5.70	2.26	5.00	2.38	5.20	2.64	5.80	2.33	5.00	
2 1/2	19.1	139.7	4	19.1	5/8	75	90	100	4.28	9.40	3.60	7.60	3.60	7.90	4.10	9.00	3.70	7.80	
3	20.6	152.4	4	19.1	5/8	75	90	100	5.18	11.40	4.10	8.50	4.04	8.90	5.00	10.80	4.20	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	5.00	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	5.99	13.20	
5	23.9	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	6.96	14.70	
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	8.41	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	13.93	29.30	
10	33.3	362.0	12	25.4	7/8	100	115	125	25.00	54.70	18.50	37.70	17.00	37.00	30.00	64.80	19.50	43.00	
12	39.6	431.8	12	25.4	7/8	100	120	135	38.98	85.90	28.00	61.00	28.30	62.40	45.00	96.30	29.03	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	38.56	85.00	
16	44.5	539.8	16	28.5	1	115	135	145	64.41	142.00	46.00	93.00	52.98	116.80	79.00	170.00	47.37	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	97.00	209.00	58.72	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	77.81	155.00	
24	63.5	749.3	20	35.1	1 1/8	150	170	185	119.66	263.80	96.00	199.50	120.00	218.30	190.00	415.00	100.75	210.00	