



TSM Technology Co., Ltd.
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ANSI, ASME B16.5 150lb/sq.in. Lap Joint Flange

Nominal Size		Outside	Thick. of	Diam of	Length	Diam. of	Fillet	No. of	Diam. of	Diam. of	Diam. of	Approx. Weight Pounds
		Diam.	Flange	Hub at	Thru	Bore	Radius				Bolt	
		O	C	X	Y	B	r				Circle	
1/2"	in.	3.5	0.44	1.19	0.62	0.9	0.12	4	0.62	1/2	2.38	1
	mm.	88.9	11.2	30.2	15.7	22.9	3				15.7	12.7
3/4"	in.	3.88	0.5	1.5	0.62	1.11	0.12	4	0.62	1/2	2.75	2
	mm.	98.6	12.7	38.1	15.7	28.2	3				15.7	12.7
1"	in.	4.25	0.56	1.94	0.69	1.38	0.12	4	0.62	1/2	3.12	2
	mm.	108	14.2	49.3	17.5	35.1	3				15.7	12.7
1 1/4"	in.	4.62	0.62	2.31	0.81	1.72	0.19	4	0.62	1/2	3.5	3
	mm.	117.3	15.7	58.7	20.6	43.7	4.8				15.7	12.7
1 1/2"	in.	5	0.69	2.56	0.88	1.97	0.25	4	0.62	1/2	3.88	3
	mm.	127	17.5	65	22.4	50	6.4				15.7	12.7
2"	in.	6	0.75	3.06	1	2.46	0.31	4	0.75	5/8	4.75	5
	mm.	152.4	19.1	77.7	25.4	62.5	7.9				19.1	15.9
2 1/2"	in.	7	0.88	3.56	1.12	2.97	0.31	4	0.75	5/8	5.5	7
	mm.	177.8	22.4	90.4	28.4	75.4	7.9				19.1	15.9
3"	in.	7.5	0.94	4.25	1.19	3.6	0.38	4	0.75	5/8	6	8
	mm.	190.5	23.9	108	30.2	91.4	9.7				19.1	15.9
3 1/2"	in.	8.5	0.94	4.81	1.25	4.1	0.38	8	0.75	5/8	7	11
	mm.	215.9	23.9	122.2	31.8	104.1	9.7				19.1	15.9
4"	in.	9	0.94	5.31	1.31	4.6	0.44	8	0.75	5/8	7.5	13
	mm.	228.6	23.9	134.9	33.3	116.8	11.2				19.1	15.9
5"	in.	10	0.94	6.44	1.44	5.69	0.44	8	0.88	3/4	8.5	15
	mm.	254	23.9	163.6	36.6	144.5	11.2				22.4	19.1
6"	in.	11	1	7.56	1.56	6.75	0.5	8	0.88	3/4	9.5	19
	mm.	279.4	25.4	192	39.6	171.5	12.7				22.4	19.1
8"	in.	13.5	1.12	9.69	1.75	8.75	0.5	8	0.88	3/4	11.75	30
	mm.	342.9	28.4	246.1	44.5	222.3	12.7				22.4	19.1
10"	in.	16	1.19	12	1.94	10.92	0.5	12	1	7/8	14.25	43
	mm.	406.4	30.2	304.8	49.3	277.4	12.7				25.4	22.2
12"	in.	19	1.25	14.38	2.19	12.92	0.5	12	1	7/8	17	64
	mm.	482.6	31.8	365.3	55.6	328.2	12.7				25.4	22.2
14"	in.	21	1.38	15.75	3.12	14.18	0.5	12	1.12	1	18.75	105
	mm.	533.4	35.1	400.1	79.2	360.2	12.7				28.4	25.4
16"	in.	23.5	1.44	18	3.44	16.19	0.5	16	1.12	1	21.25	140
	mm.	596.9	36.6	457.2	87.4	411.2	12.7				28.4	25.4



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18"	in.	25	1.56	19.88	3.81	18.2	0.5	16	1.25	1 1/8	22.75	160
	mm.	635	39.6	505	96.8	462.3	12.7		31.8	28.6	577.9	73
20"	in.	27.5	1.69	22	4.06	20.25	0.5	20	1.25	1 1/8	25	195
	mm.	698.5	42.9	558.8	103.1	514.4	12.7		31.8	28.6	635	88
24"	in.	32	1.88	26.12	4.38	24.25	0.5	20	1.38	1 1/4	29.5	275
	mm.	812.8	47.8	663.4	111.3	616	12.7		35.1	31.8	749.3	125

ANSI, ASME B16.5 300lb/sq.in. Lap Joint Flange

Nominal Size		Outside	Thick. of	Diam of	Length	Diam. of	Fillet	No. of	Diam.	Diam. of	Diam. of	Approx. Weight Pounds
		diam. of	Flange	Hub at	Thru	Bore	Radius				Bolt	
		O	C	X	Y	B	r	Holes	of Holes	Bolts		Kg
1/2"	in.	3.75	0.56	1.5	0.88	0.9	0.12	4	0.62	1/2	2.62	2
	mm.	95.3	14.2	38.1	22.4	22.9	3		15.7	12.7	66.5	1
3/4"	in.	4.62	0.62	1.88	1	1.11	0.12	4	0.75	5/8	3.25	3
	mm.	117.3	15.7	47.8	25.4	28.2	3		19.1	15.9	82.6	1
1"	in.	4.88	0.69	2.12	1.06	1.38	0.12	4	0.75	5/8	3.5	3
	mm.	124	17.5	53.8	26.9	35.1	3		19.1	15.9	88.9	1
1 1/4"	in.	5.25	0.75	2.5	1.06	1.72	0.19	4	0.75	5/8	3.88	4
	mm.	133.4	19.1	63.5	26.9	43.7	4.8		19.1	15.9	98.6	2
1 1/2"	in.	6.12	0.81	2.75	1.19	1.97	0.25	4	0.88	3/4	4.5	6
	mm.	155.4	20.6	69.9	30.2	50	6.4		22.4	19.1	114.3	3
2"	in.	6.5	0.88	3.31	1.31	2.46	0.31	8	0.75	5/8	5	7
	mm.	165.1	22.4	84.1	33.3	62.5	7.9		19.1	15.9	127	3
2 1/2"	in.	7.5	1	3.94	1.5	2.97	0.31	8	0.88	3/4	5.88	10
	mm.	190.5	25.4	100.1	38.1	75.4	7.9		22.4	19.1	149.4	5
3"	in.	8.25	1.12	4.62	1.69	3.6	0.38	8	0.88	3/4	6.62	13
	mm.	209.6	28.4	117.3	42.9	91.4	9.7		22.4	19.1	168.1	6
3 1/2"	in.	9	1.19	5.25	1.75	4.1	0.38	8	0.88	3/4	7.25	17
	mm.	228.6	30.2	133.4	44.5	104.1	9.7		22.4	19.1	184.2	8
4"	in.	10	1.25	5.75	1.88	4.6	0.44	8	0.88	3/4	7.88	22
	mm.	254	31.8	146.1	47.8	116.8	11.2		22.4	19.1	200.2	10
5"	in.	11	1.38	7	2	5.69	0.44	8	0.88	3/4	9.25	28
	mm.	279.4	35.1	177.8	50.8	144.5	11.2		22.4	19.1	235	13
6"	in.	12.5	1.44	8.12	2.06	6.75	0.5	12	0.88	3/4	10.62	39
	mm.	317.5	36.6	206.2	52.3	171.5	12.7		22.4	19.1	269.7	18
8"	in.	15	1.62	10.25	2.44	8.75	0.5	12	1	7/8	13	58
	mm.	381	41.1	260.4	62	222.3	12.7		25.4	22.2	330.2	26



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10"	in.	17.5	1.88	12.62	3.75	10.92	0.5	16	1.12	1	15.25	91
	mm.	444.5	47.8	320.5	95.3	277.4	12.7		28.4	25.4	387.4	41
12"	in.	20.5	2	14.75	4	12.92	0.5	16	1.25	1 1/8	17.75	140
	mm.	520.7	50.8	374.7	101.6	328.2	12.7		31.8	28.6	450.9	64
14"	in.	23	2.12	16.75	4.38	14.18	0.5	20	1.25	1 1/8	20.25	190
	mm.	584.2	53.8	425.5	111.3	360.2	12.7		31.8	28.6	514.4	86
16"	in.	25.5	2.25	19	4.75	16.19	0.5	20	1.38	1 1/4	22.5	250
	mm.	647.7	57.2	482.6	120.7	411.2	12.7		35.1	31.8	571.5	113
18"	in.	28	2.38	21	5.12	18.2	0.5	24	1.38	1 1/4	24.75	295
	mm.	711.2	60.5	533.4	130	462.3	12.7		35.1	31.8	628.7	134
20"	in.	30.5	2.5	23.12	5.5	20.25	0.5	24	1.38	1 1/4	27	370
	mm.	774.7	63.5	587.2	139.7	514.4	12.7		35.1	31.8	685.8	168
24"	in.	36	2.75	27.62	6	24.25	0.5	24	1.62	1 1/2	32	550
	mm.	914.4	69.9	701.5	152.4	616	12.7		41.1	38.1	812.8	249

ANSI, ASME B16.5 600lb/sq.in. Lap Joint Flange

Nominal size		Outside diam. of flange	Thick. of flange	Diam of hub at base	Length thru hub	Diam. of bore	Fillet radius	No. of holes	Diam. of holes	Diam. of bolts	Diam. of bolt circle	Approx. weight pounds Kg
		O	C	X	Y	B	r					
1/2"	in.	3.75	0.56	1.5	0.88	0.9	0.12	4	0.62	1/2	2.62	2
	mm.	95.3	14.2	38.1	22.4	22.9	3		15.7	12.7	66.5	1
3/4"	in.	4.62	0.62	1.88	1	1.11	0.12	4	0.75	5/8	3.25	3
	mm.	117.3	15.7	47.8	25.4	28.2	3		19.1	15.9	82.6	1
1"	in.	4.88	0.69	2.12	1.06	1.38	0.12	4	0.75	5/8	3.5	4
	mm.	124	17.5	53.8	26.9	35.1	3		19.1	15.9	88.9	2
1 1/4"	in.	5.25	0.81	2.5	1.12	1.72	0.19	4	0.75	5/8	3.88	5
	mm.	133.4	20.6	63.5	28.4	43.7	4.8		19.1	15.9	98.6	2
1 1/2"	in.	6.12	0.88	2.75	1.25	1.97	0.25	4	0.88	3/4	4.5	7
	mm.	155.4	22.4	69.9	31.8	50	6.4		22.4	19.1	114.3	3
2"	in.	6.5	1	3.31	1.44	2.46	0.31	8	0.75	5/8	5	9
	mm.	165.1	25.4	84.1	36.6	62.5	7.9		19.1	15.9	127	4
2 1/2"	in.	7.5	1.12	3.94	1.62	2.97	0.31	8	0.88	3/4	5.88	12
	mm.	190.5	28.4	100.1	41.1	75.4	7.9		22.4	19.1	149.4	5
3"	in.	8.25	1.25	4.62	1.81	3.6	0.38	8	0.88	3/4	6.62	15
	mm.	209.6	31.8	117.3	46	91.4	9.7		22.4	19.1	168.1	7
3 1/2"	in.	9	1.38	5.25	1.94	4.1	0.38	8	1	7/8	7.25	20
	mm.	228.6	35.1	133.4	49.3	104.1	9.7		25.4	22.2	184.2	9
4"	in.	10.75	1.5	6	2.12	4.6	0.44	8	1	7/8	8.5	36
	mm.	273.1	38.1	152.4	53.8	116.8	11.2		25.4	22.2	215.9	16



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5"	in.	13	1.75	7.44	2.38	5.69	0.44	8	1.12	1	10.5	61
	mm.	330.2	44.5	189	60.5	144.5	11.2		28.4	25.4	266.7	28
6"	in.	14	1.88	8.75	2.62	6.75	0.5	12	1.12	1	11.5	78
	mm.	355.6	47.8	222.3	66.5	171.5	12.7		28.4	25.4	292.1	35
8"	in.	16.5	2.19	10.75	3	8.75	0.5	12	1.25	1 1/8	13.75	110
	mm.	419.1	55.6	273.1	76.2	222.3	12.7		31.8	28.6	349.3	50
10"	in.	20	2.5	13.5	4.38	10.92	0.5	16	1.38	1 1/4	17	170
	mm.	508	63.5	342.9	111.3	277.4	12.7		35.1	31.8	431.8	77
12"	in.	22	2.62	15.75	4.62	12.92	0.5	20	1.38	1 1/4	19.25	200
	mm.	558.8	66.5	400.1	117.3	328.2	12.7		35.1	31.8	489	91
14"	in.	23.75	2.75	17	5	14.18	0.5	20	1.5	1 3/8	20.75	250
	mm.	603.3	69.9	431.8	127	360.2	12.7		38.1	34.9	527.1	113
16"	in.	27	3	19.5	5.5	16.19	0.5	20	1.62	1 1/2	23.75	365
	mm.	685.8	76.2	495.3	139.7	411.2	12.7		41.1	38.1	603.3	166
18"	in.	29.25	3.25	21.5	6	18.2	0.5	20	1.75	1 5/8	25.75	435
	mm.	743	82.6	546.1	152.4	462.3	12.7		44.5	41.3	654.1	197
20"	in.	32	3.5	24	6.5	20.25	0.5	24	1.75	1 5/8	28.5	570
	mm.	812.8	88.9	609.6	165.1	514.4	12.7		44.5	41.3	723.9	259
24"	in.	37	4	28.25	7.25	24.25	0.5	24	2	1 7/8	33	810
	mm.	939.8	101.6	717.6	184.2	616	12.7		50.8	47.6	838.2	367