

### ANSI B16.5 FLANGE DETAILS

#### TOLERANCE CHART (FLANGE)

DIMENSION OR FLANGE	TOLERANCE	PIPE		FLANGE			R.F	THICKNESS	RFT	NO. OF HOLES	HOLE DIA		PCD
		NOMINAL SIZE	O.D.	lb/100/in	O.D.	R.F					MM	MM	
O.D.	+/- 0.6 MM												
RFT - 1.6 MM - 6.4 MM	+/- 0.8 MM												
PCD	+/- 1.6 MM												
4 HOLE DIA THICKNESS	+/- 0.8 MM												
	+/- 3.2 MM												
		1/2"	21.3	150	88.9	35.1	11.2	1.6	1.6	4	15.7	60.5	
		3/4"	26.7	150	88.6	42.9	12.7	1.6	1.6	4	15.7	60.9	
		1.0"	33.4	150	108.0	50.8	14.2	1.6	1.6	4	15.7	79.2	
		1.1/4"	42.2	180	112.3	63.5	15.2	1.6	1.6	4	15.7	86.9	
		1.1/2"	48.3	150	127.0	73.2	17.5	1.6	1.6	4	15.7	96.5	
		2"	60.3	150	152.4	91.9	19.8	1.6	1.6	4	19.1	120.2	
		2-1/2"	73	150	177.8	104.6	22.4	1.6	1.6	4	19.1	139.7	
		3.0"	88.9	150	190.5	127.0	23.9	1.6	1.6	4	19.1	152.4	
		1/2"	21.3	300	95.2	35.0	14.2	1.6	1.6	4	15.7	60.9	
		3/4"	26.7	300	117.3	42.9	15.9	1.6	1.6	4	19.1	82.8	
		1.0"	33.4	300	124.0	50.8	17.5	1.6	1.6	4	19.1	86.9	
		1.1/4"	42.2	300	133.3	63.5	19	1.6	1.6	4	19.1	96.5	
		1.1/2"	48.3	300	155.4	73.2	20.8	1.6	1.6	4	22.3	114.0	
		2"	60.3	300	185.1	71.7	22.3	1.6	1.6	8	18.0	127.0	
		2-1/2"	73	300	190.5	104.6	25.4	1.6	1.6	8	22.3	149.4	
		3.0"	88.9	300	209.6	127.0	28.4	1.6	1.6	8	22.3	168.4	
		1/2"	21.3	400/500	81.2	35.0	20.8	6.4	6.4	4	15.7	66.5	
		3/4"	26.7	400/500	117.3	42.9	22.0	6.4	6.4	4	19.1	82.8	
		1.0"	33.4	400/500	124.0	50.8	23.4	6.4	6.4	4	19.1	86.9	
		1.1/4"	42.2	400/500	133.3	63.5	27.0	6.4	6.4	4	19.1	96.6	
		1.1/2"	48.3	400/500	155.4	73.2	28.8	6.4	6.4	4	22.4	134.3	
		2"	60.3	400/500	165.1	91.9	30.8	6.4	6.4	8	19.1	127.0	
		2-1/2"	73	400/500	190.5	104.0	34.8	6.4	6.4	8	22.4	149.4	
		3.0"	88.9	400/500	209.6	122.0	38.8	6.4	6.4	8	22.4	168.1	

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PIPE NOMINAL SIZE	FLANGE		O.D.	R.F	THICKNESS	RFT	NO. OF HOLES	HOLE DIA	PCD
	O.D.	lb/in <sup>2</sup>							
INCH	MM	MM	MM	MM	MM	MM	MM	MM	MM
1/2"		900/1500	130.63	105.99	22.35	6.4	4	21.35	82.55
3/4"		900/1500	130.04	115.3	25.4	6.4	4	22.35	88.9
1.0"		900/1500	149.35	127	28.44	6.4	4	25.4	101.6
1.1/4"		900/1500	158.75	127	28.44	6.4	4	25.4	112.25
1.1/2"		900/1500	177.8	139.7	31.75	6.4	4	28.44	124
2"		900/1500	219.9	146.05	38.1	6.4	8	25.4	165.1
2-1/2"		900/1500	244.34	159.75	41.14	6.4	8	28.44	190.5
3"		900/1500	266.7	177.8	47.7	6.4	8	31.75	209.2
1/2"		2500	133.33	130.85	30.22	6.4	4	22.35	88.9
3/4"		2500	139.7	127	31.75	6.4	4	23.35	95.25
1.0"		2500	159.75	139.7	35.05	6.4	4	25.4	108
1.1/4"		2500	184.15	152.4	38.1	6.4	4	28.44	130.04
1.1/2"		2500	203.2	171.45	44.45	6.4	4	31.75	146.05
2"		2500	238	177.8	50.8	6.4	8	28.44	171.45
2-1/2"		2500	268.7	196.85	57.15	6.4	8	31.75	196.85
3"		2500	304.8	222.25	66.54	6.4	8	35.05	228.6