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ANSI ASME B16.36 Orifice Flanges

Dimensions, Sizes and Specification of ANSI ASME B 16.36 Orifice Flanges



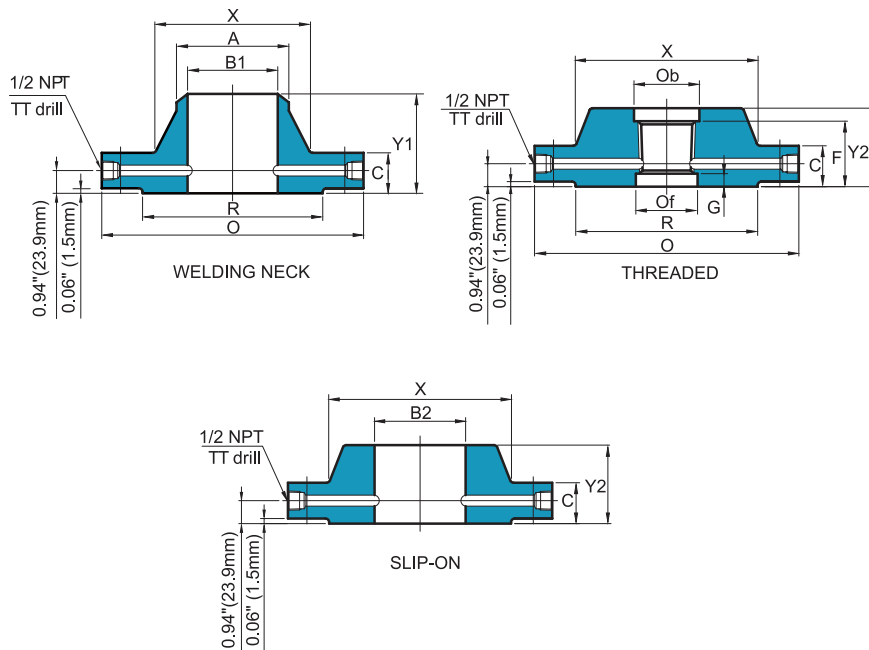
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Mail: sales@antongcorp.com

Tel: 008631180763668

ANSI ASME B16.36 Orifice Flanges Class 300

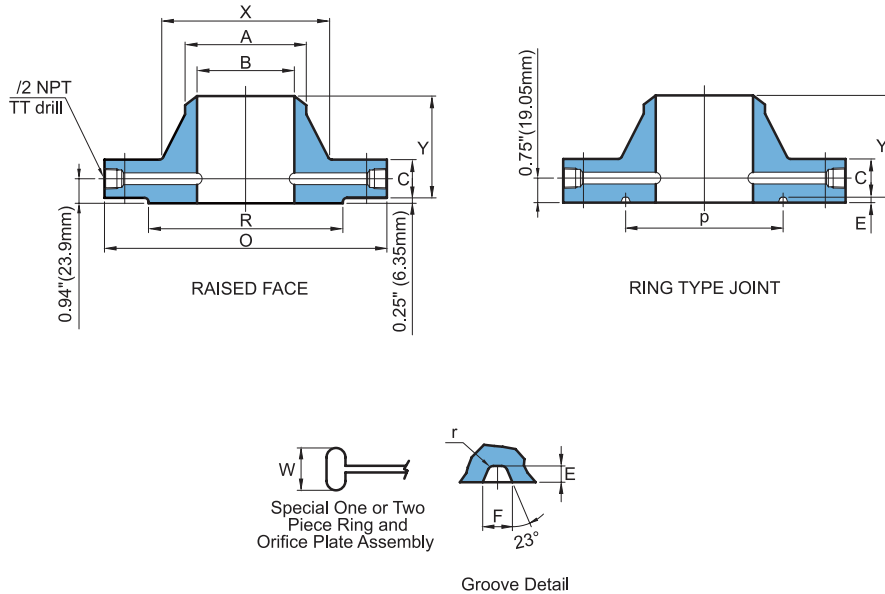


CLASS300

Unit : mm

Nominal Pipe Size	O. D. of Raised Face	O.D. of Flange	Thick-ness of Flange, Min.	Length Through Hub		Diam. of Hub	Hub Diam. Beginning of Chamfer (W.N)	Diam. of Counterbore		Counterbore Depth (From Face)		Bore		Diam. of Pressure Connection (inch)	Drilling Template				Bolt Length		
				Slip-On and Threaded	Weld Neck			Back	Face	Slip-On	Weld Neck	Bolt Circle	Number of Holes		Diam. of Holes	Diam. of Bolts (inch)	Machine Bolts	Stud Bolts			
																			Y2	Y1	Ob
1	50.8	124.0	38.1	47.8	82.6	53.8	33.5	35.8	33.0	36.6	19.1	34.5	To be specified by purchaser.	1/4	88.9	4	17.5	5/8	114.3	127.0	
1 1/2	73.2	155.4	38.1	47.8	85.9	69.9	48.3	50.5	48.0	37.3	18.3	49.5		1/4	114.3	4	20.6	3/4	120.7	133.4	
2	91.9	165.1	38.1	49.3	85.9	84.1	60.5	63.5	59.9	38.1	17.5	62.0		1/4	127.0	8	17.5	5/8	114.3	127.0	
2 1/2	104.6	190.5	38.1	50.8	88.9	100.1	73.2	76.2	72.1	44.5	14.2	74.7		1/4	149.4	8	20.6	3/4	120.7	133.4	
3	127.0	209.6	38.1	52.3	88.9	117.3	88.9	92.2	87.9	46.0	14.2	90.7		3/8	168.1	8	20.6	3/4	120.7	133.4	
4	157.2	254.0	38.1	53.8	91.9	146.1	114.3	117.6	113.0	47.8	14.2	116.1		1/2	200.2	8	20.6	3/4	120.7	133.4	
6	215.9	317.5	38.1	53.8	100.1	206.2	168.4	171.5	166.9	47.8	7.9	170.7		1/2	269.7	12	22.4	3/4	120.7	133.4	
8	269.7	381.0	41.1	62.0	111.3	260.4	219.2	222.3	217.2	55.6	11.2	221.5		1/2	330.2	12	25.4	7/8	127.0	146.1	
10	323.9	444.5	47.8	66.5	117.3	320.5	273.1	Threaded flanges are furnished in NPS 1-8 only.							1/2	387.4	16	28.4	1	146.1	165.1
12	381.0	520.7	50.8	73.2	130.0	374.7	323.9								1/2	450.9	16	31.8	1 1/8	158.8	177.8
14	412.8	584.2	53.8	76.2	142.7	425.5	355.6								1/2	514.4	20	31.8	1 1/8	165.1	184.2
16	469.9	647.7	57.2	82.6	146.1	482.6	406.4								1/2	571.5	20	35.1	1 1/4	177.8	196.9
18	533.4	711.2	60.5	88.9	158.8	533.4	457.2								1/2	628.7	24	35.1	1 1/4	184.2	203.2
20	584.2	774.7	63.5	95.3	162.1	587.2	508.0								1/2	685.8	24	35.1	1 1/4	190.5	215.9
24	692.2	914.4	69.9	106.4	168.1	701.5	609.6								1/2	812.8	24	41.1	1 1/2	209.6	241.3

ANSI ASME B16.36 Orifice Flanges Class 400

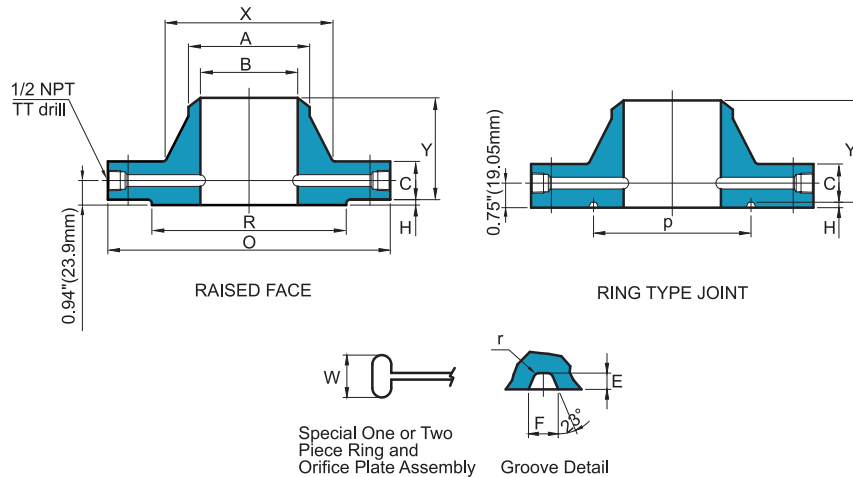


CLASS400

Unit : mm

Nominal Pipe Size	O. D. of Raised Face	O. D. of Flange	Thickness of Flange, Min.	Length Through Hub	Ring Type Joint							Diam. of Hub	Hub Diam. Beginning of Chamfer	Bore	Diam. of Pressure Connection (inch)	Drilling Template				Length of Stud Bolts	
					Groove Number	Pitch Diam.	Groove Depth	Groove Width	Radius at Bottom	Special Oval Ring Height	Bolt Circle					Number of Holes	Diam. of Holes	Diam. of Bolts (inch)	Raised Face	Ring Joint	
						P	E	F	r max.	W											X
1	50.8	124.0	36.6	81.0	R16	50.8	6.4	8.7	0.8	25.4	53.8	33.5	To be specified by purchaser.	1/4	88.9	4	17.5	5/8	127.0	139.7	
1 1/2	73.2	155.4	36.6	84.3	R20	68.3	6.4	8.7	0.8	25.4	69.9	48.3		1/4	114.3	4	20.6	3/4	133.4	139.7	
2	91.9	165.1	36.6	84.3	R23	82.6	7.9	11.9	0.8	26.9	84.1	60.5		1/4	127.0	8	17.5	5/8	127.0	139.7	
2 1/2	104.6	190.5	36.6	87.4	R26	101.6	7.9	11.9	0.8	26.9	100.1	73.2		1/4	149.4	8	20.6	3/4	133.4	146.1	
3	127.0	209.6	36.6	87.4	R31	123.8	7.9	11.9	0.8	26.9	117.3	88.9		3/8	168.1	8	20.6	3/4	133.4	146.1	
4	157.2	254.0	38.1	88.9	R37	149.2	7.9	11.9	0.8	26.9	146.1	114.3		1/2	200.2	8	25.4	7/8	139.7	152.4	
6	215.9	317.5	41.1	103.1	R45	211.1	7.9	11.9	0.8	26.9	206.2	168.4		1/2	269.7	12	25.4	7/8	158.8	165.1	
8	269.7	381.0	47.8	117.3	R49	269.9	7.9	11.9	0.8	26.9	260.4	219.2		1/2	330.2	12	28.4	1	171.5	184.2	
10	323.9	444.5	53.8	124.0	R53	323.9	7.9	11.9	0.8	26.9	320.5	273.1		1/2	387.4	16	31.8	1 1/8	190.5	203.2	
12	381.0	520.7	57.2	136.7	R57	381.0	7.9	11.9	0.8	26.9	374.7	323.9		1/2	450.9	16	35.1	1 1/4	203.2	215.9	
14	412.8	584.2	60.7	149.4	R61	419.1	7.9	11.9	0.8	26.9	425.5	355.6		1/2	514.4	20	35.1	1 1/4	209.6	228.6	
16	469.9	647.7	63.5	152.4	R65	469.9	7.9	11.9	0.8	30.2	482.6	406.4		1/2	571.5	20	38.1	1 3/8	222.3	235.0	
18	533.4	711.2	66.5	165.1	R69	533.4	7.9	11.9	0.8	30.2	533.4	457.2		1/2	628.7	24	38.1	1 3/8	235.0	241.3	
20	584.2	774.7	69.9	168.1	R73	584.2	9.5	13.5	1.5	31.8	587.2	508.0		1/2	685.8	24	41.1	1 1/2	247.7	260.4	
24	692.2	914.4	76.2	174.8	R77	692.2	23.8	16.7	1.5	36.6	701.5	609.6		1/2	812.8	24	47.8	1 3/4	279.4	292.1	

ANSI ASME B16.36 Orifice Flanges Class 600

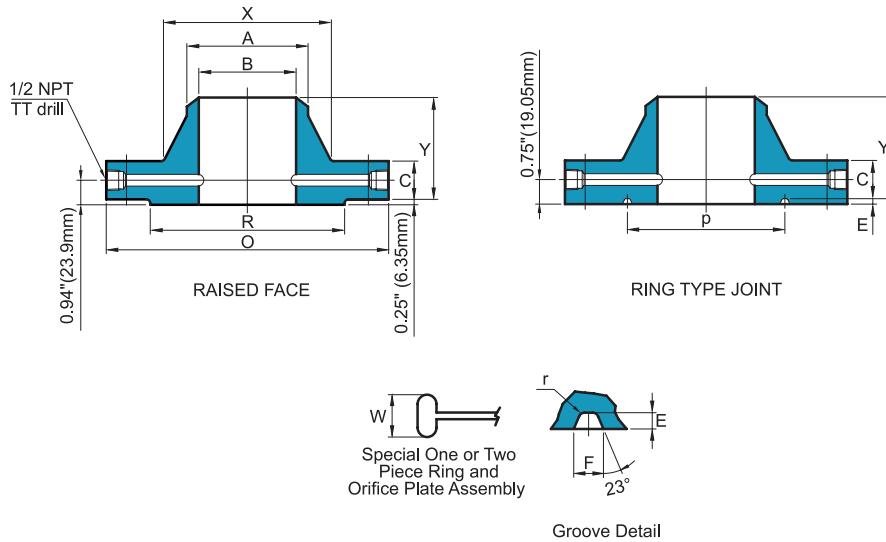


CLASS600

Unit : mm

Nominal Pipe Size	O. D. of Raised Face	O.D. of Flange	Thick-ness of Flange, Min.	Length Through Hub	Height of Raised Face	Ring Type Joint					Diam. of Hub	Hub Diam. Beginning of Chamfer	Bore	Diam. of Pressure Connection (inch)	Drilling Template				Length of Stud Bolts			
						Groove Number	Pitch Diam.	Groove Depth	Groove Width	Radius at Bottom					Special Oval Ring Height	Bolt Circle	Number of Holes	Diam. of Holes		Diam. of Bolts (inch)	Raised Face	Ring Joint
																		Raised Face	Ring Joint			
R	O	C	Y	H	P	E	F	r max.	W	X	A	B	TT									
1	50.8	124.0	36.6	81.0	1.5	R16	50.8	6.4	8.7	0.8	25.4	53.8	33.5	1/4	88.9	4	17.5	19.1	5/8	127.0	139.7	
1 1/2	73.2	155.4	36.6	84.3	1.5	R20	68.3	6.4	8.7	0.8	25.4	69.9	48.3	1/4	114.3	4	20.6	22.4	3/4	133.4	139.7	
2	91.9	165.1	36.6	84.3	1.5	R23	82.6	7.9	11.9	0.8	26.9	84.1	60.5	1/4	127.0	8	17.5	19.1	5/8	127.0	139.7	
2 1/2	104.6	190.5	36.6	87.4	1.5	R26	101.6	7.9	11.9	0.8	26.9	100.1	73.2	1/4	149.4	8	20.6	22.4	3/4	133.4	146.1	
3	127.0	209.6	36.6	87.4	1.5	R31	123.8	7.9	11.9	0.8	26.9	117.3	88.9	3/8	168.1	8	20.6	22.4	3/4	133.4	146.1	
4	157.2	273.1	38.1	101.6	6.4	R37	149.2	7.9	11.9	0.8	26.9	152.4	114.3	1/2	215.9	8	25.4	25.4	7/8	152.4	165.1	
6	215.9	355.6	47.8	117.3	6.4	R45	211.1	7.9	11.9	0.8	26.9	222.3	168.4	1/2	292.1	12	28.4	28.4	1	177.8	190.5	
8	269.7	419.1	55.6	133.4	6.4	R49	269.9	7.9	11.9	0.8	26.9	273.1	219.2	1/2	349.3	12	31.8	31.8	1 1/8	196.9	209.6	
10	323.9	508.0	63.5	152.4	6.4	R53	323.9	7.9	11.9	0.8	26.9	342.9	273.1	1/2	431.8	16	35.1	35.1	1 1/4	222.3	235.0	
12	381.0	558.8	66.5	155.4	6.4	R57	381.0	7.9	11.9	0.8	26.9	400.1	323.9	1/2	489.0	20	35.1	35.1	1 1/4	228.6	241.3	
14	412.8	603.3	69.9	165.1	6.4	R61	419.1	7.9	11.9	0.8	26.9	431.8	355.6	1/2	527.1	20	38.1	38.1	1 3/8	241.3	254.0	
16	469.9	685.8	76.2	177.8	6.4	R65	469.9	7.9	11.9	0.8	30.2	495.3	406.4	1/2	603.3	20	41.1	41.1	1 1/2	260.4	273.1	
18	533.4	743.0	82.6	184.2	6.4	R69	533.4	7.9	11.9	0.8	30.2	546.1	457.2	1/2	654.1	20	44.5	44.5	1 5/8	279.4	292.1	
20	584.2	812.8	88.9	190.5	6.4	R73	584.2	9.5	13.5	1.5	31.8	609.6	508.0	1/2	723.9	24	44.5	44.5	1 5/8	298.5	317.5	
24	692.2	939.8	101.6	203.2	6.4	R77	692.2	11.1	16.7	1.5	36.6	717.6	609.6	1/2	838.2	24	50.8	50.8	1 7/8	336.6	349.3	

ANSI ASME B16.36 Orifice Flanges Class 900

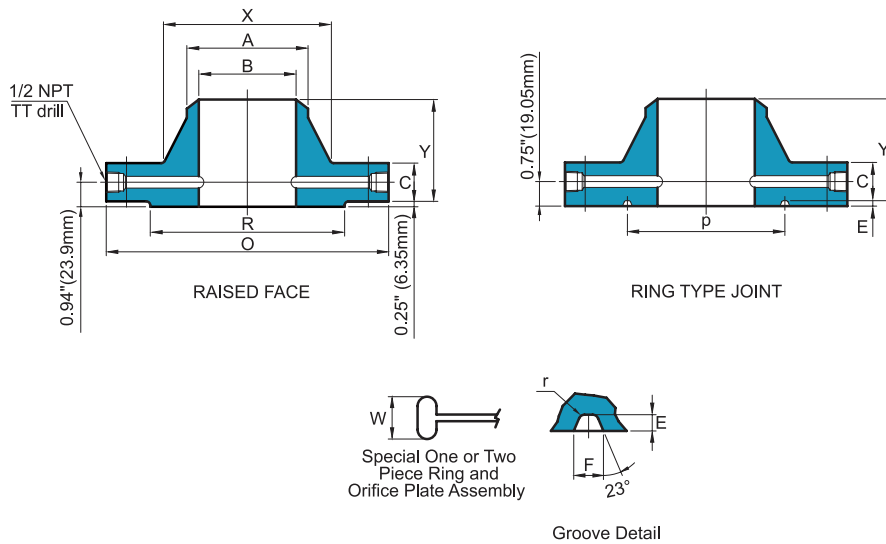


CLASS900

Unit : mm

Nominal Pipe Size	O. D. of Raised Face	O.D. of Flange	Thick-ness of Flange, Min.	Length Through Hub	Ring Type Joint						Diam. of Hub	Hub Diam. Beginning of Chamfer	Bore	Diam. of Pressure Connection (inch)	Drilling Template				Lenght of Stud Bolts	
					Groove Number	Pitch Diam.	Groove Depth	Groove Width	Radius at Bottom	Special Oval Ring Height					Bolt Circle	Number of Holes	Diam. of Holes	Diam. of Bolts (inch)	Raised Face	Ring Joint
						P	E	F	r max.	W										
1	50.8	149.4	38.1	82.6	R16	50.8	6.4	8.7	0.8	25.4	52.3	33.5	To be specified by purchaser.	1/4	101.6	4	25.4	7/8	152.4	158.8
1 1/2	73.2	177.8	38.1	88.9	R20	68.3	6.4	8.7	0.8	25.4	69.9	48.3		1/4	124.0	4	28.4	1	158.8	165.1
2	91.9	215.9	38.1	101.6	R24	95.3	7.9	11.9	0.8	26.9	104.6	60.5		1/4	165.1	8	25.4	7/8	152.4	165.1
2 1/2	104.6	244.3	41.1	104.6	R27	108.0	7.9	11.9	0.8	26.9	124.0	73.2		1/4	190.5	8	28.4	1	165.1	177.8
3	127.0	241.3	38.1	101.6	R31	123.8	7.9	11.9	0.8	26.9	127.0	88.9		3/8	190.5	8	25.4	7/8	152.4	165.1
4	157.2	292.1	44.5	114.3	R37	149.2	7.9	11.9	0.8	26.9	158.8	114.3		1/2	235.0	8	31.8	1 1/8	177.8	190.5
6	215.9	381.0	55.6	139.7	R45	211.1	7.9	11.9	0.8	26.9	235.0	168.4		1/2	317.5	12	31.8	1 1/8	196.9	209.6
8	269.7	469.9	63.5	162.1	R49	269.9	7.9	11.9	0.8	26.9	298.5	219.2		1/2	393.7	12	38.1	1 3/8	228.6	241.3
10	323.9	546.1	69.9	184.2	R53	323.9	7.9	11.9	0.8	26.9	368.3	273.1		1/2	469.9	16	38.1	1 3/8	241.3	254.0
12	381.0	609.6	79.2	200.2	R57	381.0	7.9	11.9	0.8	26.9	419.1	323.9		1/2	533.4	20	38.1	1 3/8	260.4	273.1
14	412.8	641.4	85.9	212.9	R62	419.1	11.1	16.7	1.5	33.3	450.9	355.6		1/2	558.8	20	41.1	1 1/2	279.4	292.1
16	469.9	704.9	88.9	215.9	R66	469.9	11.1	16.7	1.5	36.6	508.0	406.4		1/2	616.0	20	44.5	1 5/8	292.1	304.8
18	533.4	787.4	101.6	228.6	R70	533.4	12.7	19.8	1.5	39.6	565.2	457.2		1/2	685.8	20	50.8	1 7/8	330.2	349.3
20	584.2	857.3	108.0	247.7	R74	584.2	12.7	19.8	1.5	39.6	622.3	508.0		1/2	749.3	20	53.8	2	355.6	374.7
24	692.2	1041.4	139.7	292.1	R78	692.2	15.9	27.0	2.3	47.8	749.3	609.6		1/2	901.7	20	66.5	2 1/2	444.5	469.9

ANSI ASME B16.36 Orifice Flanges Class 1500



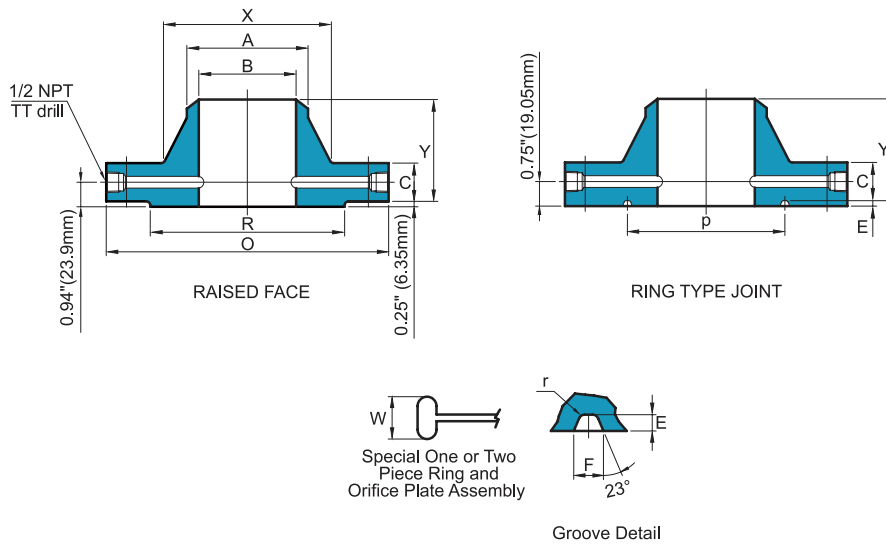
CLASS1500

Unit : mm

Nominal Pipe Size	Outside Diam. of Flanges	Thk. of Flange Min.	Diam. of Hub	Hub Diam. Chamfer of W.N	LENGTH THROUGH HUB			Thread Length	BORE			Corner Radius of Bore of Lapped Flange	Counter bore Threaded Flange Min.	Depth of Socket	DRILLING			LENGTH OF STUD BOLTS			
					Threaded Slip-on Socket Welding	Lapped	Welding Neck		Slip-on Socket Welding	Lapped	Welding Neck Socket Welding				Diam. of Bolt Circle	Diam. of Bolt Holes	Number of Bolts	Diam. of Bolts (inch)	Raised Face (0.25 Inch)	Male & Female or Tongue & Groove	Ring Joint
15	120.7	22.4	38.1	21.3	31.8	31.8	60.5	22.4	22.4	22.9	3.0	23.6	9.7	82.6	22.4	4	3/4	108.0	101.6	108.0	
20	130.0	25.4	44.5	26.7	35.1	35.1	69.9	25.4	27.7	28.2	3.0	29.0	11.2	88.9	22.4	4	3/4	114.3	108.0	114.3	
25	149.4	28.4	52.3	33.5	41.1	41.1	73.2	28.4	34.5	35.1	3.0	35.8	12.7	101.6	25.4	4	7/8	127.0	120.7	127.0	
32	158.8	28.4	63.5	42.2	41.1	41.1	73.2	30.2	43.2	43.7	4.8	44.5	14.2	111.3	25.4	4	7/8	127.0	120.7	127.0	
40	177.8	31.8	69.9	48.3	44.5	44.5	82.6	31.8	49.5	50.0	6.4	50.5	15.7	124.0	28.4	4	1	139.7	133.4	139.7	
50	215.9	38.1	104.6	60.5	57.2	57.2	101.6	38.1	62.0	62.5	7.9	63.5	17.5	165.1	25.4	8	7/8	146.1	139.7	146.1	
65	244.3	41.1	124.0	73.2	63.5	63.5	104.6	47.8	74.7	75.4	7.9	76.2	19.1	190.5	28.4	8	1	158.8	152.4	158.8	
80	266.7	47.8	133.4	88.9	-	73.2	117.3	-	-	91.4	9.7	-	-	203.2	31.8	8	1 1/8	177.8	171.5	177.8	
100	311.2	53.8	162.1	114.3	-	90.4	124.0	-	-	116.8	11.2	-	-	241.3	35.1	8	1 1/4	196.9	190.5	196.9	
125	374.7	73.2	196.9	141.2	-	104.6	155.4	-	-	144.5	11.2	-	-	292.1	41.1	8	1 1/2	247.7	241.3	247.7	
150	393.7	82.6	228.6	168.4	-	119.1	171.5	-	-	171.5	12.7	-	-	317.5	38.1	12	1 3/8	260.4	254.0	266.7	
200	482.6	91.9	292.1	219.2	-	142.7	212.9	-	-	222.3	12.7	-	-	393.7	44.5	12	1 5/8	292.1	285.8	323.9	
250	584.2	108.0	368.3	273.1	-	177.8	254.0	-	-	277.4	12.7	-	-	482.6	50.8	12	1 7/8	336.6	330.2	342.9	
300	673.1	124.0	450.9	323.9	-	218.9	282.4	-	-	328.2	12.7	-	-	571.5	53.8	16	2	374.7	368.3	387.4	
350	749.3	133.4	495.3	355.6	-	241.3	298.5	-	-	360.2	12.7	-	-	635.0	60.5	16	2 1/4	406.4	400.1	425.5	
400	825.5	146.1	552.5	406.4	-	260.4	311.2	-	-	411.2	12.7	-	-	704.9	66.5	16	2 1/2	444.5	438.2	469.9	
450	914.4	162.1	596.9	457.2	-	276.4	327.2	-	-	462.3	12.7	-	-	774.7	73.2	16	2 3/4	495.3	489.0	527.1	
500	984.3	177.8	641.4	508.0	-	292.1	355.6	-	-	514.4	12.7	-	-	831.9	79.2	16	3	539.8	533.4	565.2	
600	1168.4	203.2	762.0	609.6	-	330.2	406.4	-	-	616.0	12.7	-	-	990.6	91.9	16	3 1/2	616.0	609.6	647.7	

NOTE : B = Bore size to be specified by customer

ANSI ASME B16.36 Orifice Flanges Class 2500



CLASS2500

Unit : mm

Nominal Pipe Size	O. D. of Raised Face	O.D. of Flange	Thick-ness of Flange, Min.	Length Through Hub	Ring Type Joint						Diam. of Hub	Hub Diam. Beginning of Chamfer	Bore	Diam. of Pressure Connection (inch)	Drilling Template				Lenght of Stud Bolts	
					Groove Number	Pitch Diam.	Groove Depth	Groove Width	Radius at Bottom	Special Oval Ring Height					Bolt Circle	Number of Holes	Diam. of Holes	Diam. of Bolts (inch)	Raised Face	Ring Joint
						P	E	F	r max.	W										
1	50.8	158.8	38.1	91.9	R18	60.3	6.4	8.7	0.8	25.4	57.2	33.5	To be specified by purchaser.	1/4	108.0	4	25.4	7/8	152.4	158.8
1 1/2	73.2	203.2	44.5	111.3	R23	82.6	7.9	11.9	0.8	26.9	79.2	48.3		1/4	146.1	4	31.8	1 1/8	177.8	190.5
2	91.9	235.0	50.8	127.0	R26	101.6	7.9	11.9	0.8	26.9	95.3	60.5		1/4	171.5	8	28.4	1	184.2	196.9
2 1/2	104.6	266.7	57.2	142.7	R28	111.1	9.5	13.5	1.5	30.2	114.3	73.2		1/4	196.9	8	31.8	1 1/8	203.2	215.9
3	127.0	304.8	66.5	168.1	R32	127.0	9.5	13.5	1.5	30.2	133.4	88.9		3/8	228.6	8	35.1	1 1/4	228.6	241.3
4	157.2	355.6	76.2	190.5	R38	157.2	11.1	16.7	1.5	33.3	165.1	114.3		1/2	273.1	8	41.1	1 1/2	260.4	273.1
6	215.9	482.6	108.0	273.1	R47	228.6	12.7	19.8	1.5	36.6	235.0	168.4		1/2	368.3	8	53.8	2	349.3	368.3
8	269.7	552.5	127.0	317.5	R51	279.4	14.3	23.0	1.5	39.6	304.8	219.2		1/2	438.2	12	53.8	2	387.4	406.4
10	323.9	673.1	165.1	419.1	R55	342.9	17.5	30.2	2.3	47.8	374.7	273.1		1/2	539.8	12	66.5	2 1/2	489.0	514.4
12	381.0	762.0	184.2	463.6	R60	406.4	17.5	33.3	2.3	50.8	441.5	323.9		1/2	619.3	12	73.2	2 3/4	539.8	571.5

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Mail: sales@antongcorp.com

Tel: 008631180763668