



Class 2500 Orifice Flanges, Welding Neck

Nominal Pipe Size	Outside Diameter of Raised Face - R	Outside Diameter of Flange - O	Thickness of Flange, Min. - C	Length Through Hub	Ring Type Joint								Hub Diameter at Beginning of Chamfer - A	Bore - B	Diameter of Pressure Connection - TT	Drilling Template				Length of Stud Bolts [(4)(5)]	
					Groove number	Pitch Diameter - P	Groove Depth - E	Groove Width - F	Radius at Bottom - rmax	Special Oval Ring Height - W	Diameter of Hub - X	Bolt Circle				Number of Holes	Diameter of Holes	Diameter of Bolts	Raised Face	Ring Joint	
1"	2.00	6.25	1.50	3.62	R18	2.375	0.250	0.344	0.03	1.00	2.25	1.32	1/4	4.25	4	1.00	7/8	6.00	6.25		
1-1/2"	2.88	8.00	1.75	4.38	R23	3.250	0.312	0.469	0.03	1.06	3.12	1.90	1/4	5.75	4	1.25	1-1/8	7.00	6.25		
2"	3.62	9.25	2.00	5.00	R26	4.000	0.312	0.469	0.03	1.06	3.75	2.38	1/4	6.75	8	1.12	1	7.25	7.75		
2-1/2"	4.12	10.50	2.25	5.62	R28	4.375	0.375	0.531	0.06	1.19	4.50	2.88	1/4	7.75	8	1.25	1-1/8	8.00	8.50		
3"	5.00	12.00	2.62	6.62	R32	5.000	0.375	0.531	0.06	1.19	5.25	3.50	3/8	9.00	8	1.38	1-1/4	9.00	9.50		
4"	6.19	14.00	3.00	7.50	R38	6.188	0.438	0.656	0.06	1.31	6.50	4.50	1/2	10.75	8	1.62	1-1/2	10.25	10.75		
6"	8.50	19.00	4.25	10.75	R47	9.000	0.500	0.781	0.06	1.44	9.25	6.63	1/2	14.50	8	2.12	2	13.75	14.50		
8"	10.62	21.75	5.00	12.50	R51	11.000	0.562	0.906	0.06	1.56	12.00	8.63	1/2	17.25	12	2.12	2	15.25	16.00		
10"	12.75	26.50	6.50	16.50	R55	13.500	0.688	1.188	0.09	1.88	14.75	10.75	1/2	21.25	12	2.62	2-1/2	19.25	20.25		
12"	15.00	30.00	7.25	18.25	R60	16.000	0.688	1.312	0.09	2.00	17.38	12.75	1/2	24.38	12	2.88	2-3/4	21.25	22.50		

See Note (5).

General Note: Dimensions are in Inches.

Notes:

1. Other NPT sizes may be furnished if required.
2. All other dimensions are in accordance with ASME B16.5.
3. In conformance with ASME B16.5, stud bolt lengths do not include point heights.
4. Bolt lengths for raised face flanges include allowance for orifice and gasket thickness of 0.25 in. for NPS 1 - 12. Bolt lengths for ring type joint flanges include allowance of 0.62 in. for NPS 1 - 3.
5. Bore is to be specified by the purchaser.
6. Ring joint flanges larger than NPS 3 will require angular meter taps as shown in Fig 3.



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