



### Class 1500 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	5.88	1.50	3.25	R16	2.000	0.250	0.344	0.03	1.00	2.06	1.32	1/4	4.00	4	1.00	7/8	6.00	6.25	
1-1/2"	2.88	7.00	1.50	3.50	R20	2.688	0.250	0.344	0.03	1.00	2.75	1.90	1/4	4.88	4	1.12	1	6.25	6.50	
2"	3.62	8.50	1.50	4.00	R24	3.750	0.312	0.469	0.03	1.06	4.12	2.38	1/4	6.50	8	1.00	7/8	6.00	6.50	
2-1/2"	4.12	9.62	1.62	4.12	R27	4.250	0.312	0.469	0.03	1.06	4.88	2.88	1/4	7.50	8	1.12	1	6.50	7.00	
3"	5.00	10.50	1.88	4.62	R35	5.375	0.312	0.469	0.03	1.06	5.25	3.50	3/8	8.00	8	1.25	1-1/8	7.25	7.25	
4"	6.19	12.25	2.12	4.88	R39	6.375	0.312	0.469	0.03	1.06	6.38	4.50	1/2	9.50	8	1.38	1-1/4	8.00	8.50	
6"	8.50	15.50	3.25	6.75	R46	8.312	0.375	0.531	0.05	1.12	9.00	6.63	1/2	12.50	12	1.50	1-3/8	10.50	11.00	
8"	10.62	19.00	3.62	8.38	R50	10.625	0.438	0.656	0.06	1.31	11.50	8.63	1/2	15.50	12	1.75	1-5/8	11.75	12.25	
10"	12.75	23.00	4.25	10.00	R54	12.750	0.438	0.656	0.06	1.31	14.50	10.75	1/2	19.00	12	2.00	1-7/8	13.50	14.00	
12"	15.00	26.50	4.88	11.12	R58	15.000	0.562	0.806	0.06	1.56	17.75	12.75	1/2	22.50	16	2.12	2	15.00	15.75	
14"	16.25	29.50	5.25	11.75	R63	16.500	0.625	1.062	0.09	1.75	19.50	14.00	1/2	25.00	16	2.38	2-1/4	16.25	17.52	
16"	18.50	32.50	5.75	12.25	R67	18.500	0.688	1.188	0.09	2.00	21.75	16.00	1/2	27.75	16	2.62	2-1/2	17.75	19.00	
18"	21.00	36.00	6.38	12.88	R71	21.000	0.688	1.188	0.09	2.00	23.50	18.00	1/2	30.50	16	2.88	2-3/4	19.75	21.00	
20"	23.00	38.75	7.00	14.00	R75	23.000	0.688	1.312	0.09	2.12	25.25	20.00	1/2	32.75	16	3.12	3	21.50	22.50	
24"	27.25	46.00	8.00	16.00	R79	27.250	0.812	1.438	0.09	2.31	30.00	24.00	1/2	39.00	16	3.62	3-1/2	24.50	26.00	

See Note (5).

General Note: Dimensions are in inches.

Notes:

- Other NPT sizes may be furnished if required.
- All other dimensions are in accordance with ASME B16.5.
- In conformance with ASME B16.5, stud bolt lengths do not include point heights.
- Bolt lengths for raised face flanges include allowance for orifice and gasket thickness of 0.25 in. for NPS 1 - 12 and 0.38 in. for NPS 14 - 24. Bolt lengths for ring type joint flanges include allowance of 0.62 in. for NPS 1 - 6.
- Bore is to be specified by the purchaser.
- Ring joint flanges larger than NPS 6 will require angular meter taps as shown in Fig 3.

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