

ASME B16.5 Class 1500 Flanges

ASME B16.5 CLASS 1500 RTJ FACING FLANGES DIMENSIONS AND TECHNICAL DRAWINGS

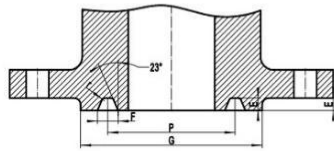


Figure-1: the ASME B16.5 flange with a ring-type joint (RTJ) facing. P – pitch diameter of groove; G – minimum diameter of raised portion; F – upper width of groove; r – radius at bottom of groove; E – depth of groove, equal to height of raised portion; 23°: slope angle of side wall.

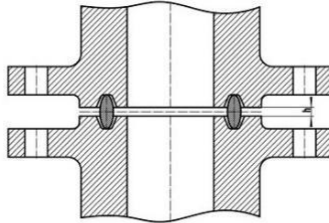


Figure-2: a RTJ joint consisting of two RTJ flanges and a metallic ring gasket which rests in the ring-joint groove. h: approximate distance between flanges. N: groove number.

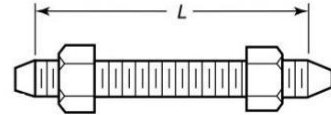


Figure -3: The stud bolt with two nuts for the connection of two RTJ flanges. Its length is denoted as L (L does not include the height of the points).

1500# B16.5 FLANGES DIMENSIONS

RTJ FACING DIMENSIONS IN MM

NPS	Groove No.	P	E	F
1/2	12	39.67	6.35	8.74
3/4	14	44.45	6.35	8.74
1	16	50.80	6.35	8.74
1-1/4	18	60.33	6.35	8.74
1-1/2	20	68.27	6.35	8.74
2	24	95.25	7.92	11.91
2-1/2	27	107.95	7.92	11.91
3	35	136.53	7.92	11.91
4	39	161.93	7.92	11.91

NPS	Groove No.	P	E	F
5	44	193.68	7.92	11.91
6	46	211.14	9.53	13.49
8	50	269.88	11.13	16.66
10	54	323.85	11.13	16.66
12	58	381.00	14.27	23.01
14	63	419.10	15.88	26.97
16	67	469.90	17.48	30.18
18	71	533.40	17.48	30.18
20	75	584.20	17.48	33.32
24	79	692.15	20.62	36.53

NPS	r	G	h	L
1/2	0.8	60.5	4	110
3/4	0.8	66.5	4	115
1	0.8	71.5	4	125
1-1/4	0.8	81.0	4	125
1-1/2	0.8	92.0	4	140
2	0.8	124	3	145
2-1/2	0.8	137	3	160
3	0.8	168	3	180
4	0.8	194	3	195
5	0.8	229	3	250
6	1.5	248	3	265
8	1.5	318	4	300
10	2.4	371	4	345
12	2.4	438	5	385
14	2.4	489	6	425
16	2.4	546	8	470
18	2.4	613	8	525
20	2.4	673	10	565
24	2.4	794	11	650

ASME B16.5 CLASS 1500 FLANGES INDUSTRIES AND APPLICATIONS

WIDELY USED IN THE INDUSTRIES

- Pumps, Valves, and vessels in manufacturing and food processing.
- Pipe connections in industrial waterworks.
- Heat exchangers and heating systems of all sizes.
- Mining support.
- Nuclear power systems.
- Plumbing and mechanical systems.
- Assemblies in the oil, gas, and petrochemical industries.
- Fire protection systems.

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