

# ASME B16.5 Class 2500 Flanges

## ASME B16.5 CLASS 2500 RTJ FACING FLANGES DIMENSIONS AND TECHNICAL DRAWINGS

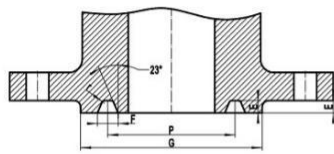


Figure-1: the ASME B16.5 flange with a ring-type joint (RTJ) facing. P – pitch diameter of groove; G – minimum diameter of raised portion; F – upper width of groove; r – radius at bottom of groove; E – depth of groove, equal to height of raised portion; 23°: slope angle of side wall.

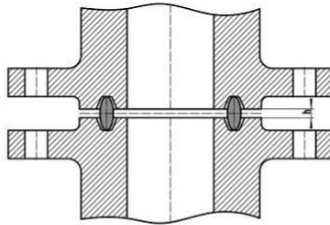


Figure-2: a RTJ joint consisting of two RTJ flanges and a metallic ring gasket which rests in the ring-joint groove. h: approximate distance between flanges. N: groove number.

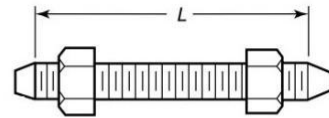


Figure -3: The stud bolt with two nuts for the connection of two RTJ flanges. Its length is denoted as L (L does not include the height of the points).

### 2500# B16.5 FLANGES DIMENSIONS

RTJ FACING DIMENSIONS IN MM

NPS	Groove No.	P	E	F
1/2	13	42.88	6.35	8.74
3/4	16	50.80	6.35	8.74
1	18	60.33	6.35	8.74
1-1/4	21	72.23	7.92	11.91
1-1/2	23	82.55	7.92	11.91
2	26	101.60	7.92	11.91
2-1/2	28	111.13	9.53	13.49
3	32	127.00	9.53	13.49
4	38	157.18	11.13	16.66

NPS	Groove No.	P	E	F
5	42	190.50	12.70	19.84
6	47	228.60	12.70	19.84
8	51	279.40	14.27	23.01
10	55	342.90	17.48	30.18
12	60	406.40	17.48	33.32

NPS	r	G	h	L
1/2	0.8	65.0	4	120
3/4	0.8	73.0	4	125
1	0.8	82.5	4	140
1-1/4	0.8	102	3	150
1-1/2	0.8	114	3	170
2	0.8	133	3	180
2-1/2	1.5	149	3	205
3	1.5	168	3	230
4	1.5	203	4	260
5	1.5	241	4	310
6	1.5	279	4	355
8	1.5	340	5	395
10	2.4	425	6	510
12	2.4	495	8	560

## ASME B16.5 CLASS 2500 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.