

## Bolting Dimensions for ANSI - B16.5 Flanges

Flange & Nominal Pipe Size	Flange Studs		Wrench Size	Stud Bolt Length		Ring No.
	No. Of Studs	Diameter Of Studs		Raised Face Flange (Stud Length)	Ring Joint Flange (Stud Length)	
1/2	4	1/2	7/8	3	3	
3/4	4	5/8	1-1/16	3-1/2	3-1/2	
1	4	5/8	1-1/16	3-1/2	3-1/2	R16
1-1/4	4	5/8	1-1/16	3-3/4	3-3/4	
1-1/2	4	3/4	1-1/4	4-1/4	4-1/4	R20
2	8	5/8	1-1/16	4-1/4	4-1/4	R23
2-1/2	8	3/4	1-1/4	4-3/4	4-3/4	
3	8	3/4	1-1/4	5	5	R31
3-1/2	8	7/8	1-7/16	5-1/2	5-1/2	
4	8	7/8	1-7/16	5-3/4	5-3/4	R37
5	8	1	1-5/8	6-1/2	6-1/2	
6	12	1	1-5/8	6-3/4	6-3/4	R45
8	12	1-1/8	1-13/16	7-1/2	7-3/4	R49
10	16	1-1/4	2	8-1/2	8-1/2	R53
12	20	1-1/4	2	8-3/4	8-3/4	R57
14	20	1-3/8	2-3/16	9-1/4	9-1/4	R61
16	20	1-1/2	2-3/8	10	10	R65
18	20	1-5/8	2-9/16	10-3/4	10-3/4	R69
20	24	1-5/8	2-9/16	11-1/4	11-1/2	R73
24	24	1-7/8	2-15/16	13	13-1/4	R77
30						
36						
40						
48						