

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	2-1/4	-	-
3/4	4	1/2	7/8	2-1/2	-	-
1	4	1/2	7/8	2-1/2	3	R15
1-1/4	4	1/2	7/8	2-3/4	3-1/4	R17
1-1/2	4	1/2	7/8	2-3/4	3-1/4	R19
2	4	5/8	1-1/16	3-1/4	3-3/4	R22
2-1/2	4	5/8	1-1/16	3-1/2	4	-
3	4	5/8	1-1/16	3-1/2	4	R29
3-1/2	8	5/8	1-1/16	3-1/2	4	-
4	8	5/8	1-1/16	3-1/2	4	R32
5	8	3/4	1-1/4	3-3/4	4-1/4	-
6	8	3/4	1-1/4	4	4-1/2	R43
8	8	3/4	1-1/4	4-1/4	4-3/4	R48
10	12	7/8	1-7/16	4-1/2	5	R52
12	12	7/8	1-7/16	4-3/4	5-1/4	R56
14	12	1	1-5/8	5-1/4	5-3/4	R59
16	16	1	1-5/8	5-1/4	5-3/4	R64
18	16	1-1/8	1-13/16	5-3/4	6-1/4	R68
20	20	1-1/8	1-13/16	6-1/4	6-3/4	R72
24	20	1-1/4	2	6-3/4	7-1/4	R76
26	24	1-1/4	2	7	7-1/2	
30	28	1-1/4	2	7-1/4	7-3/4	
36	32	1-1/2	2-3/8	8-1/4	8-3/4	
42	36	1-1/2	2-3/8	8-3/4	9	

Pipe Flange Bolt Guide

Thomas Sixsmith, Reinhard Hanselka

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