

ASME B16.5 - FLANGE BOLTS CHART

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NPS (Inches)	Class 150				Class 300				Class 400		
	Number of Bolts	Diameter of Bolt	Stud Bolt Length	Machine Bolt Length	Number of Bolts	Diameter of Bolt	Stud Bolt Length	Machine Bolt Length	Number of Bolts	Diameter of Bolt	Stud Bolt Length
RF Height			0.06	0.06			0.06	0.06			1/4
1/2	4	1/2	2 1/4	2	4	1/2	2 1/2	2 1/4	4	1/2	3
3/4	4	1/2	2 1/2	2	4	5/8	3	2 1/2	4	5/8	3 1/2
1	4	1/2	2 1/2	2 1/4	4	5/8	3	2 1/2	4	5/8	3 1/2
1 1/4	4	1/2	2 3/4	2 1/4	4	5/8	3 1/4	2 3/4	4	5/8	3 3/4
1 1/2	4	1/2	2 3/4	2 1/2	4	3/4	3 1/2	3	4	3/4	4 1/4
2	4	5/8	3 1/4	2 3/4	8	5/8	3 1/2	3	8	5/8	4 1/4
2 1/2	4	5/8	3 1/2	3	8	3/4	4	3 1/4	8	3/4	4 3/4
3	4	5/8	3 1/2	3	8	3/4	4 1/4	3 1/2	8	3/4	5
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4	8	5/8	3 1/2	3	8	3/4	4 1/2	3 3/4	8	7/8	5 1/2
5	8	3/4	3 3/4	3 1/4	8	3/4	4 3/4	4 1/4	8	7/8	5 3/4
6	8	3/4	4	3 1/4	12	3/4	4 3/4	4 1/4	12	7/8	6
8	8	7/8	4 1/4	3 1/2	12	7/8	5 1/2	4 3/4	12	1	6 3/4
10	12	7/8	4 1/2	4	16	1	6 1/4	5 1/2	16	1 1/8	7 1/2
12	12	7/8	4 3/4	4	16	1 1/8	6 3/4	5 3/4	16	1 1/4	8
14	12	1	5 1/4	4 1/2	20	1 1/8	7	6 1/4	20	1 1/4	8 1/4
16	16	1	5 1/4	4 1/2	20	1 1/4	7 1/2	6 1/2	20	1 3/8	8 3/4
18	16	1 1/8	5 3/4	5	24	1 1/4	7 3/4	6 3/4	24	1 3/8	9
20	20	1 1/8	6 1/4	5 1/2	24	1 1/4	8	7 1/4	24	1 1/2	9 1/2
24	20	1 1/4	6 3/4	6	24	1 1/2	9	8	24	1 3/4	10 1/2

NPS (Inches)	Class 600			Class 900			Class 1500			Class 2500		
	Number of Bolts	Diameter of Bolt	Stud Bolt Length	Number of Bolts	Diameter of Bolt	Raised Face 0.25 in	Number of Bolts	Diameter of Bolt	Raised Face 0.25 in	Number of Bolts	Diameter of Bolt	Raised Face 0.25 in
RF Height			1/4			1/4			1/4			1/4
1/2	4	1/2	3	4	1/2	3	4	3/4	4 1/4	4	3/4	4 3/4
3/4	4	5/8	3 1/2	4	5/8	3 1/2	4	3/4	4 1/2	4	3/4	5
1	4	5/8	3 1/2	4	5/8	3 1/2	4	7/8	5	4	7/8	5 1/2
1 1/4	4	5/8	3 3/4	4	5/8	3 3/4	4	7/8	5	4	1	6
1 1/2	4	3/4	4 1/4	4	3/4	4 1/4	4	1	5 1/2	4	1 1/8	6 3/4
2	8	5/8	4 1/4	8	5/8	4 1/4	8	7/8	5 3/4	8	1	7
2 1/2	8	3/4	4 3/4	8	3/4	4 3/4	8	1	6 1/4	8	1 1/8	7 3/4
3	8	3/4	5	8	7/8	5 3/4	8	1 1/8	7	8	1 1/4	8 3/4
3 1/2	8	7/8	5 1/2	—	—	—	—	—	—	—	—	—
4	8	7/8	5 3/4	8	1 1/8	6 3/4	8	1 1/4	7 3/4	8	1 1/2	10
5	8	1	6 1/2	8	1 1/4	7 1/2	8	1 1/2	9 3/4	8	1 3/4	11 3/4
6	12	1	6 3/4	12	1 1/8	7 1/2	12	1 3/8	10 1/4	8	2	13 1/2
8	12	1 1/8	7 1/2	12	1 3/8	8 3/4	12	1 5/8	11 1/2	12	2	15
10	16	1 1/4	8 3/4	16	1 3/8	9 1/2	12	1 7/8	13 1/2	12	2 1/2	16 1/2
12	20	1 1/4	8 3/4	20	1 3/8	10	16	2	14 3/4	12	2 3/4	21 1/4
14	20	1 3/8	9 1/4	20	1 1/2	10 3/4	16	2 1/4	16	—	—	—
16	20	1 1/2	10	20	1 5/8	11 1/4	16	2 1/2	17 1/2	—	—	—
18	20	1 5/8	10 3/4	20	1 7/8	12 3/4	16	2 3/4	19 1/2	—	—	—
20	24	1 5/8	11 1/4	20	2	13 3/4	16	3	21 1/4	—	—	—
24	24	1 7/8	13	20	2 1/2	17 1/4	16	3 1/2	24 1/4	—	—	—

Bolt And Nut Guide For Flanges

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