

# Bolt Sizes & Quantities for Flanges

## ANSI B16.5 FLANGES

Nominal Pipe Size (in.)	Class 150 Flanges		Class 300 Flanges		Class 400 Flanges		Class 600 Flanges		Class 900 Flanges		Class 1500 Flanges		Class 2500 Flanges	
	No. of Bolts	Bolt Dia. (in.)	No. of Bolts	Bolt Dia. (in.)	No. of Bolts	Bolt Dia. (in.)	No. of Bolts	Bolt Dia. (in.)	No. of Bolts	Bolt Dia. (in.)	No. of Bolts	Bolt Dia. (in.)	No. of Bolts	Bolt Dia. (in.)
1/2	4	1/2	4	1/2	4	1/2	4	1/4	4	3/4	4	3/4	4	3/4
3/4	4	1/2	4	5/8	4	5/8	4	5/8	4	3/4	4	3/4	4	3/4
1	4	1/2	4	5/8	4	5/8	4	5/8	4	7/8	4	7/8	4	7/8
1-1/4	4	1/2	4	5/8	4	5/8	4	5/8	4	7/8	4	7/8	4	1
1-1/2	4	1/2	4	3/4	4	3/4	4	3/4	4	1	4	1	4	1-1/8
2	4	5/8	8	5/8	8	5/8	8	5/8	8	7/8	8	7/8	8	1
2-1/2	4	5/8	8	3/4	8	3/4	8	3/4	8	1	8	1	8	1-1/8
3	4	5/8	8	3/4	8	3/4	8	3/4	8	7/8	8	1-1/8	8	1-1/4
3-1/2	8	5/8	8	3/4	8	7/8	8	7/8	*	*	*	*	*	*
4	8	5/8	8	3/4	8	7/8	8	7/8	8	1-1/8	8	1-1/4	8	1-1/2
5	8	3/4	8	3/4	8	1	8	1	8	1-1/4	8	1-1/2	8	1-3/4
6	8	3/4	12	3/4	12	1	12	1	12	1-1/8	12	1-3/8	8	2
8	8	3/4	12	7/8	12	1-1/8	12	1-1/8	12	1-3/8	12	1-5/8	12	2
10	12	7/8	16	1	16	1-1/4	16	1-1/4	16	1-3/8	12	1-7/8	12	2-1/2
12	12	7/8	16	1-1/8	20	1-1/4	20	1-1/4	20	1-3/8	16	2	12	2-3/4
14	12	1	20	1-1/8	20	1-3/8	20	1-3/8	20	1-1/2	16	2-1/4	*	*
16	16	1	20	1-1/4	20	1-1/2	20	1-1/2	20	1-5/8	16	2-1/2	*	*
18	16	1-1/8	24	1-1/4	20	1-5/8	20	1-5/8	20	1-7/8	16	2-3/4	*	*
20	20	1-1/8	24	1-1/4	24	1-5/8	24	1-5/8	20	2	16	3	*	*
24	20	1-1/8	24	1-1/2	24	1-7/8	24	1-7/8	20	2-1/2	16	3-1/2	*	*



# Bolt Sizes & Quantities for Flanges, Cont.

B16.47 & M.S.S. SP 44 FLANGES										
Nominal Pipe Size (in.)	Class 150 Flanges		Class 300 Flanges		Class 400 Flanges		Class 600 Flanges		Class 900 Flanges	
	No. of Bolts	Bolt Dia. (in.)	No. of Bolts	Bolt Dia. (in.)	No. of Bolts	Bolt Dia. (in.)	No. of Bolts	Bolt Dia. (in.)	No. of Bolts	Bolt Dia. (in.)
22	20	1-1/4	24	1-1/2	24	1-5/8	24	1-3/4	*	*
26	24	1-1/4	28	1-5/8	28	1-3/4	28	1-7/8	20	2-3/4
28	28	1-1/4	28	1-5/8	28	1-7/8	28	2	20	3
30	28	1-1/4	28	1-3/4	28	2	28	2	20	3
32	28	1-1/2	28	1-7/8	28	2	28	2-1/4	20	3-1/4
34	32	1-1/2	28	2	28	2	28	2-1/4	20	3-1/2
36	32	1-1/2	32	1-1/2	32	2	28	2-1/2	20	3-1/2
38	32	1-1/2	32	1-5/8	32	1-3/4	28	2-1/4	20	3-1/2
40	36	1-1/2	32	1-5/8	32	1-7/8	32	2-1/4	24	3-1/2
42	36	1-1/2	32	1-3/4	32	1-7/8	28	2-1/2	24	3-1/2
44	40	1-1/2	32	1-7/8	32	2	32	2-1/2	24	3-3/4
46	40	1-1/2	28	1-7/8	36	2	32	2-1/2	24	4
48	44	1-1/2	32	2	28	2-1/4	32	2-3/4	24	4
50	44	1-3/4	32	2	32	2-1/4	28	3	*	*
52	44	1-3/4	32	2-1/4	32	2-1/4	32	3	*	*
54	44	1-3/4	28	2-1/4	28	2-1/8	32	3	*	*
56	48	1-3/4	28	2-1/4	32	2-1/8	32	3-1/4	*	*
58	48	1-3/4	32	2-1/4	32	2-1/8	32	3-1/4	*	*
60	52	1-3/4	32	2-1/4	32	2-3/4	28	3-1/2	*	*

