

FLANGES AND FLANGE BOLTS DIMENSIONS

DIMENSIONS OF ANSI B16.5 2003 CLASS 150 FLANGES AND FLANGE BOLTS				
Nominal Pipe Size	Number and Diameter of Bolts	Length of Bolts		
		Stud Bolts (1)		Machine Bolts
		0.06 in Raised Face (in)	Ring Joint (in)	0.06 in Raised Face (in)
1/2	4 1/2"	2.25		2.00
3/4	4 1/2"	2.50		2.25
1	4 1/2"	2.50	3.00	2.25
1 1/4	4 1/2"	2.75	3.25	2.25
1 1/2	4 1/2"	3.00	3.25	2.50
2	4 5/8"	3.25	3.75	2.75
2 1/2	4 5/8"	3.50	4.00	3.00
3	4 5/8"	3.50	4.00	3.00
3 1/2	8 5/8"	3.50	4.00	3.00
4	8 5/8"	3.50	4.00	3.00
5	8 3/4"	3.75	4.25	3.25
6	8 3/4"	4.00	4.50	3.25
8	8 3/4"	4.25	4.75	3.50
10	12 7/8"	4.50	5.00	4.00
12	12 7/8"	4.75	5.25	4.00
14	12 7/8"	5.25	5.75	4.50
16	16 - 1"	5.25	5.75	4.50
18	16 - 1 1/8"	5.375	6.25	5.00
20	20 - 1 1/8"	6.25	6.75	5.50
24	20 1 1/4"	6.75	7.25	6.00

Note (1) Length of stud bolt DOES NOT include height of the points

DIMENSIONS OF ANSI B16.5 2003 CLASS 300 FLANGES AND FLANGE BOLTS

Nominal Pipe Size	Number and Diameter of Bolts	Length of Bolts		
		Stud Bolts (1)		Machine Bolts
		0.06 in Raised Face (in)	Ring Joint (in)	0.06 in Raised Face (in)
1/2	4 1/2"	2.50	3.00	2.25
3/4	4 5/8"	3.00	3.50	2.50
1	4 5/8"	3.00	3.50	2.50
1 1/4	4 5/8"	3.25	3.75	2.75
1 1/2	4 3/4"	3.50	4.00	3.00
2	8 5/8"	3.50	4.00	3.00
2 1/2	8 3/4"	4.00	4.50	6.25
3	8 3/4"	4.25	4.75	3.50
3 1/2	8 3/4"	4.25	5.00	3.75
4	8 3/4"	4.50	5.00	3.75
5	8 3/4"	4.75	5.25	4.25
6	12 3/4"	4.75	5.50	4.25
8	12 7/8"	5.50	6.00	4.75
10	16 - 1"	6.25	6.75	5.50
12	16 - 1 1/8"	6.75	7.25	5.75
14	20 - 1 1/8"	7.00	7.50	6.25
16	20 1 1/4"	7.50	8.00	6.50
18	24 - 1 1/4"	7.75	8.25	6.75
20	24 - 1 1/4"	8.00	8.75	7.25
24	24 - 1 1/2"	9.00	10.00	8.00

Note (1) Length of stud bolt DOES NOT include height of the points

DIMENSIONS OF ANSI B16.5 2003 CLASS 600 FLANGES AND FLANGE BOLTS

Nominal Pipe Size	Number and Diameter of Bolts	Length of Bolts		
		Stud Bolts (1)		Machine Bolts
		0.06 in Raised Face (in)	Ring Joint (in)	0.06 in Raised Face (in)
1/2	4 1/2"	3.00	2.75	3.00
3/4	4 5/8"	3.50	3.25	3.50
1	4 5/8"	3.50	3.25	3.50
1 1/4	4 5/8"	3.75	3.50	3.75
1 1/2	4 3/4"	4.25	4.00	4.25
2	8 5/8"	4.25	4.00	4.25
2 1/2	8 3/4"	4.75	4.50	4.75
3	8 3/4"	5.00	4.75	5.00
3 1/2	8 7/8"	5.50	5.25	5.50
4	8 7/8"	5.75	5.50	5.75
5	8 - 1"	6.50	6.25	6.50
6	12 - 1"	6.75	6.50	6.75
8	12 - 1 1/8"	7.50	7.25	7.75
10	16 - 1 1/4"	8.5	7.25	8.50
12	20 - 1 1/4"	8.75	8.50	8.75
14	20 - 1 3/8"	9.25	9.00	9.25
16	20 - 1 1/2"	10.00	9.75	10.00
18	20 - 1 5/8"	10.75	10.50	10.75
20	24 - 1 5/8"	11.25	11.00	11.50
24	24 - 1 7/8"	13.00	12.75	13.25

Note (1) Length of stud bolt DOES NOT include height of the points