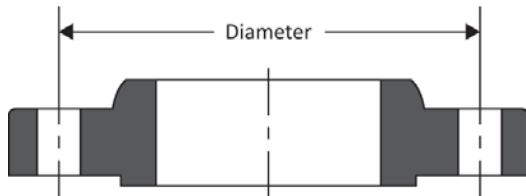
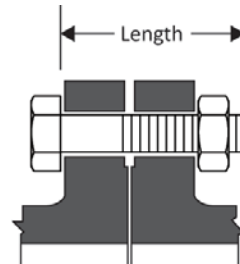


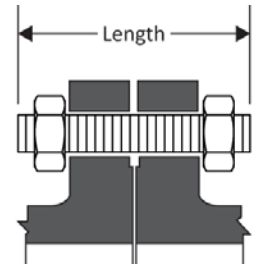
Class 300 Flanges • Bolting Pattern & Bolt Sizes



Bolt Circle



Machine Bolt with Nut



Stud Bolt with Nuts

ASME B16.5

All dimensions listed are given in inches.

Nominal Pipe Size	Diameter of Bolt Circle	Diameter of Bolt Holes	Number of Bolts	Diameter of Bolts	Length of Bolts ¹	
					Machine Bolts ²	Stud Bolts ³
1/2	2.62	5/8	4	1/2	2 1/4	2 1/2
3/4	3.25	3/4	4	5/8	2 1/2	3
1	3.50	3/4	4	5/8	2 1/2	3
1 1/4	3.88	3/4	4	5/8	2 3/4	3 1/4
1 1/2	4.50	7/8	4	3/4	3	3 1/2
2	5.00	3/4	8	5/8	3	3 1/2
2 1/2	5.88	7/8	8	3/4	3 1/4	4
3	6.62	7/8	8	3/4	3 1/2	4 1/4
3 1/2	7.25	7/8	8	3/4	3 3/4	4 1/4
4	7.88	7/8	8	3/4	3 3/4	4 1/2
5	9.25	7/8	8	3/4	4 1/4	4 3/4
6	10.62	7/8	12	3/4	4 1/4	4 3/4
8	13.00	1	12	7/8	4 3/4	5 1/2
10	15.25	1 1/8	16	1	5 1/2	6 1/4
12	17.75	1 1/4	16	1 1/8	5 3/4	6 3/4
14	20.25	1 1/4	20	1 1/8	6 1/4	7
16	22.50	1 3/8	20	1 1/4	6 1/2	7 1/2
18	24.75	1 3/8	24	1 1/4	5 3/4	7 3/4
20	27.00	1 3/8	24	1 1/4	7 1/4	8
24	32.00	1 5/8	24	1 1/2	8	9

(1) For reference only. When ordering, allow for the total length required for all components.

(2) The lengths of the machine bolts are measured from under the head to the top of the bolt.

(3) The ASME B16.5 stud lengths are specified from Thread to Thread. We measure our studs from End to End, which includes the chamfered points.

When ordering studs based off of ASME B16.5 stud lengths, please specify that your lengths are measured from thread to thread.