

BOLT AND STUD DIMENSIONS

Nominal Pipe Size	150LB, Flanges (3)				300LB, Flanges (3)				400LB Flanges (4)		
	No. of Bolts or Studs	Dia. Of Bolts or Studs	Length of Bolts	Length of Studs	No. of Bolts or Studs	Dia. Of Bolts or Studs	Length of Bolts	Length of studs	No. of Studs	Dia. Of Studs	Length of Studs
			A	B			A	B			B
1/2	4	1/2	1 3/4	2 1/4	4	1/2	2	2 2/1	*	*	*
3/4	4	1/2	2	2 1/4	4	5/8	2 1/4	3	*	*	*
1	4	1/2	2	2 1/2	4	5/8	2 1/2	3	*	*	*
1 1/4	4	1/2	2 1/4	2 1/2	4	5/8	2 1/2	3 1/4	*	*	*
1 1/2	4	1/2	2 1/4	2 3/4	4	3/4	2 3/4	3 1/2	*	*	*
2	4	5/8	2 1/2	3 1/4	8	5/8	2 3/4	3 1/2	*	*	*
2 1/2	4	5/8	2 3/4	3 1/2	8	3/4	3 1/4	4	*	*	*
3	4	5/8	3	3 1/2	8	3/4	3 1/2	4 1/4	*	*	*
3 1/2	8	5/8	3	3 1/2	8	3/4	3 1/2	4 1/4	*	*	*
4	8	5/8	3	3 1/2	8	3/4	3 3/4	4 1/2	8	7/8	5 1/2
5	8	3/4	3	3 3/4	8	3/4	4	4 3/4	8	7/8	5 3/4
6	8	3/4	3 1/4	4	12	3/4	4	4 3/4	12	7/8	6
8	8	3/4	3 1/2	4 1/4	12	7/8	4 1/2	5 1/2	12	1	6 3/4
10	12	7/8	3 3/4	4 3/4	16	1	5 1/4	6 1/4	16	1 1/8	7 1/2
12	12	7/8	4	4 3/4	16	1 1/8	5 3/4	6 3/4	16	1 1/4	8
14	12	1	4 1/4	5 1/4	20	1 1/8	6	7	20	1 1/4	8 1/4
16	16	1	4 1/2	5 1/2	20	1 1/4	6 1/4	7 1/2	20	1 3/8	8 3/4
18	16	1 1/8	4 3/4	6	24	1 1/4	6 1/2	7 3/4	24	1 3/8	9
20	20	1 1/8	5	6 1/4	24	1 1/4	6 3/4	8 1/4	24	1 1/2	9 3/4
24	20	1 1/8	5 1/2	7	24	1 1/2	7 3/4	9 1/4	24	1 3/4	10 3/4

Nominal Pipe Size	600LB. FLANGES (4)			900lb. Flanges (4)			1500lb. Flanges (4)			2500Lb. Flanges (4)		
	No. Of Studs	Dia Of Studs	Length of Studs	No. Of Studs	Dia. Of Studs	Length of studs	No. Of Studs	Dia. Of Studs	Length of Studs	No. Of Studs	Dia. Of Studs	Length of Studs
	B			B			B			B		
1/2	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	3/4	4 1/2	4	3/4	5
1	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	7/8	5	4	1	6
1 1/2	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	7/8	5 3/4	8	1	7
2 1/2	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	12
6	12	1	6 3/4	12	1 1/8	7 3/4	12	1 3/8	10 1/4	8	2	13 3/4
8	12	1 1/8	7 3/4	12	1 3/8	8 3/4	12	1 5/8	11 1/2	12	2	15 1/4
10	16	1 1/4	8 1/2	16	1 3/8	9 1/4	12	1 7/8	13 1/2	12	2 1/2	19 1/4
12	20	1 1/4	8 3/4	20	1 3/8	10	16	2	15	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 1/4	—	—	—
16	20	1 1/2	10	20	1 5/8	11 1/4	16	2 1/2	17 3/4	—	—	—
18	20	1 5/8	10 3/4	20	1 7/8	13	16	2 3/4	19 1/2	—	—	—
20	24	1 5/8	11 1/2	20	2	13 3/4	16	3	21 1/2	—	—	—
24	24	1 7/8	13	20	2 1/2	17 1/4	16	3 1/2	24 1/4	—	—	—

(1) All Dimensions in Inches

(2) Lengths include allowance for pulling-up.

(3) Length based on 1/6" raised face welding neck, slip-on, screwed or blind flanges. For lap joint, add the thickness of both laps.

(4) Length based on 1/4" raised face welding neck, slip-on, screwed or blind flanges. For lap joint, add the thickness of both laps and subtract 1/2". For male and female or tongue and groove flange faces, subtract 1/4".

(*) Same as 600 LB. flanges.

(†) Same as 1500 LB Flanges.