

BOLTING DIMENSIONS FOR 150 TO 300 LB. STEEL FLANGE

Nom. Pipe Size	125/150 LB. FLANGE					250/300 LB. FLANGE				
	Bolt Circle Dia.	Bolt Dia.	No. of Bolts	*Stud Len.	Bolt Len.	Bolt Circle Dia.	Bolt Dia.	No. of Bolts	*Stud Len.	Bolt Len.
1/2	2 ³ / ₈	1/2	4	2 ¹ / ₄	1 ³ / ₄	2 ⁵ / ₈	1/2	4	2 ¹ / ₂	2
3/4	2 ³ / ₄	1/2	4	2 ¹ / ₄	2	3 ¹ / ₄	5/8	4	2 ³ / ₄	2 ¹ / ₂
1	3 ¹ / ₈	1/2	4	2 ¹ / ₂	2	3 ¹ / ₂	5/8	4	3	2 ¹ / ₂
1 ¹ / ₄	3 ¹ / ₂	1/2	4	2 ¹ / ₂	2 ¹ / ₄	3 ⁷ / ₈	5/8	4	3	2 ³ / ₄
1 ¹ / ₂	3 ⁷ / ₈	1/2	4	2 ³ / ₄	2 ¹ / ₄	4 ¹ / ₂	3/4	4	3 ¹ / ₂	3
2	4 ³ / ₄	5/8	4	3	2 ³ / ₄	5	5/8	8	3 ¹ / ₄	3
2 ¹ / ₂	5 ¹ / ₂	5/8	4	3 ¹ / ₄	3	5 ⁷ / ₈	3/4	8	3 ³ / ₄	3 ¹ / ₄
3	6	5/8	4	3 ¹ / ₂	3	6 ⁵ / ₈	3/4	8	4	3 ¹ / ₂
3 ¹ / ₂	7	5/8	8	3 ¹ / ₂	3	7 ¹ / ₄	3/4	8	4 ¹ / ₄	3 ³ / ₄
4	7 ¹ / ₂	5/8	8	3 ¹ / ₂	3	7 ⁷ / ₈	3/4	8	4 ¹ / ₄	3 ³ / ₄
5	8 ¹ / ₂	3/4	8	3 ³ / ₄	3 ¹ / ₄	9 ¹ / ₄	3/4	8	4 ¹ / ₂	4
6	9 ¹ / ₂	3/4	8	3 ³ / ₄	3 ¹ / ₄	10 ⁵ / ₈	3/4	12	4 ³ / ₄	4 ¹ / ₄
8	11 ³ / ₄	3/4	8	4	3 ¹ / ₂	13	7/8	12	5 ¹ / ₄	4 ³ / ₄
10	14 ¹ / ₈	7/8	12	4 ¹ / ₂	3 ³ / ₄	15 ¹ / ₄	1	16	6	5 ¹ / ₄
12	17	7/8	12	4 ¹ / ₂	4	17 ³ / ₄	1 ¹ / ₈	16	6 ¹ / ₂	5 ³ / ₄
14	18 ³ / ₄	1	12	5	4 ¹ / ₄	20 ¹ / ₄	1 ¹ / ₈	20	6 ³ / ₄	6
16	21 ¹ / ₄	1	16	5 ¹ / ₄	4 ¹ / ₂	22 ¹ / ₂	1 ¹ / ₄	20	7 ¹ / ₄	6 ¹ / ₂
18	22 ³ / ₄	1 ¹ / ₈	16	5 ³ / ₄	4 ³ / ₄	24 ³ / ₄	1 ¹ / ₄	24	7 ¹ / ₂	6 ³ / ₄

Nom. Pipe Size	125/150 LB. FLANGE					250/300 LB. FLANGE				
	Bolt Circle Dia.	Bolt Dia.	No. of Bolts	*Stud Len.	Bolt Len.	Bolt Circle Dia.	Bolt Dia.	No. of Bolts	*Stud Len.	Bolt Len.
20	25	1 ¹ / ₈	20	6	5 ¹ / ₄	27	1 ¹ / ₄	24	8	7
22	27 ¹ / ₄	1 ¹ / ₄	20	6 ¹ / ₂	5 ¹ / ₂	29 ¹ / ₄	1 ¹ / ₂	24	8 ³ / ₄	7 ¹ / ₂
24	29 ¹ / ₂	1 ¹ / ₄	20	6 ³ / ₄	5 ³ / ₄	32	1 ¹ / ₂	24	9	7 ³ / ₄
26	31 ³ / ₄	1 ¹ / ₄	24	7	6	34 ¹ / ₂	1 ⁵ / ₈	28	10	8 ³ / ₄
30	36	1 ¹ / ₄	28	7 ¹ / ₄	6 ¹ / ₄	39 ¹ / ₄	1 ³ / ₄	28	11 ¹ / ₄	10
34	40 ¹ / ₂	1 ¹ / ₂	32	8	7	43 ¹ / ₂	1 ⁷ / ₈	28	12 ¹ / ₄	10 ³ / ₄
36	42 ³ / ₄	1 ¹ / ₂	32	8 ¹ / ₄	7	46	2	32	12 ³ / ₄	11 ¹ / ₄
42	49 ¹ / ₂	1 ¹ / ₂	36	8 ³ / ₄	7 ¹ / ₄	52 ³ / ₄	2	36	13 ³ / ₄	13 ¹ / ₂

*1/16" Raised Face

Stub lengths for lap joint flanges are equal to lengths shown plus the thickness of two laps of the stub ends.

BOLTING DIMENSIONS FOR 400 LB./600LB. STEEL FLANGE

Nom Pipe Size	400 LB. STEEL FLANGES				600 LB. STEEL FLANGES			
	Diam of Bolt Circle	Diam of Bolts	No. of Bolts	Length of Studs of 1/4" Raised Face	Diam of Bolt Circle	Diam of Bolts	No. of Bolts	Length of Studs of 1/4" Raised Face
1/2	2 ⁵ / ₈	1/2	4	3	2 ⁵ / ₈	1/2	4	3
3/4	3 ¹ / ₄	5/8	4	3 ¹ / ₄	3 ¹ / ₄	5/8	4	3 ¹ / ₄
1	3 ¹ / ₂	5/8	4	3 ¹ / ₂	3 ¹ / ₂	5/8	4	3 ¹ / ₂
1 ¹ / ₄	3 ⁷ / ₈	5/8	4	3 ³ / ₄	3 ⁷ / ₈	5/8	4	3 ³ / ₄
1 ¹ / ₂	4 ¹ / ₂	3/4	4	4	4 ¹ / ₂	3/4	4	4
2	5	5/8	8	4	5	5/8	8	4
2 ¹ / ₂	5 ⁷ / ₈	3/4	8	4 ¹ / ₂	5 ⁷ / ₈	3/4	8	4 ¹ / ₄
3	6 ⁵ / ₈	3/4	8	4 ³ / ₄	6 ⁵ / ₈	3/4	8	4 ³ / ₄
3 ¹ / ₂	7 ¹ / ₄	7/8	8	5 ¹ / ₄	7 ¹ / ₄	7/8	8	5 ¹ / ₄
4	7 ⁷ / ₈	7/8	8	5 ¹ / ₄	8 ¹ / ₂	7/8	8	5 ¹ / ₂
5	9 ¹ / ₄	7/8	8	6 ¹ / ₂	10 ¹ / ₂	1	8	6 ¹ / ₄
6	10 ⁵ / ₈	7/8	12	5 ³ / ₄	11 ¹ / ₂	1	12	6 ¹ / ₂
8	13	1	12	6 ¹ / ₂	13 ³ / ₄	1 ¹ / ₈	12	7 ¹ / ₂
10	15 ¹ / ₄	1 ¹ / ₈	16	7 ¹ / ₄	17	1 ¹ / ₄	16	8 ¹ / ₄
12	17 ³ / ₄	1 ¹ / ₄	16	7 ³ / ₄	19 ¹ / ₄	1 ¹ / ₄	20	8 ¹ / ₂
14	20 ¹ / ₄	1 ¹ / ₄	20	8	20 ³ / ₄	1 ³ / ₈	20	9
16	22 ¹ / ₂	1 ³ / ₈	20	8 ¹ / ₂	23 ³ / ₄	1 ¹ / ₂	20	9 ³ / ₄
18	24 ³ / ₄	1 ³ / ₈	24	8 ³ / ₄	25 ³ / ₄	1 ⁵ / ₈	20	10 ¹ / ₂

Nom Pipe Size	400 LB. STEEL FLANGES				600 LB. STEEL FLANGES			
	Diam of Bolt Circle	Diam of Bolts	No. of Bolts	Length of Studs of 1/4" Raised Face	Diam of Bolt Circle	Diam of Bolts	No. of Bolts	Length of Studs of 1/4" Raised Face
20	27	1 ¹ / ₂	24	9 ¹ / ₂	28 ¹ / ₂	1 ⁵ / ₈	24	11 ¹ / ₄
22	29 ¹ / ₄	1 ⁵ / ₈	24	10	30 ⁵ / ₈	1 ³ / ₄	24	12
24	32	1 ³ / ₄	24	10 ¹ / ₂	33	1 ⁷ / ₈	24	12 ³ / ₄
26	34 ¹ / ₂	1 ³ / ₄	28	11 ¹ / ₂	36	1 ⁷ / ₈	28	13 ¹ / ₄
30	39 ¹ / ₄	2	28	13	40 ¹ / ₄	2	28	14
34	43 ¹ / ₂	2	28	13 ³ / ₄	44 ¹ / ₂	2 ¹ / ₄	28	15
36	46	2	32	14	47	2 ¹ / ₂	28	15 ³ / ₄
42	52 ³ / ₄	2 ¹ / ₂	32	16 ¹ / ₄	53 ³ / ₄	2 ³ / ₄	28	17 ¹ / ₂

Stud lengths for lap joint flanges are equal to lengths shown minus 1/2" plus the thickness of two laps of the stub ends.