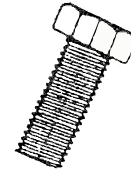


# CAIN BOLT & GASKET INC.



## BOLTING DATA FOR ASME/ANSI B16.5 FLANGES WITH HVY 2H NUTS

Nominal Pipe Size	150 LB FLANGES (3)					300 LB FLANGES (3)					400 LB FLANGES (4)			
	2H Nuts Wrench Size	No. of Bolts or Studs	Dia. of Bolts or Studs	Length of Bolts	Length of Studs	2H Nuts Wrench Size	No. of Bolts or Studs	Dia. of Bolts or Studs	Length of Bolts	Length of Studs	2H Nut Wrench Size	No. of Studs	Dia of Studs	Length of Studs
1/2	7/8	4	1/2	1-3/4	2-1/4	7/8	4	1/2	2	2-1/2	7/8	4	1/2	3
3/4	7/8	4	1/2	2	2-1/4	1-1/16	4	5/8	2-1/4	3	1-1/16	4	5/8	3-1/2
1	7/8	4	1/2	2	2-1/2	1-1/16	4	5/8	2-1/2	3	1-1/16	4	5/8	3-1/2
1-1/4	7/8	4	1/2	2-1/4	2-1/2	1-1/16	4	5/8	2-1/2	3-1/4	1-1/16	4	5/8	3-3/4
1-1/2	7/8	4	1/2	2-1/4	2-3/4	1-1/4	4	3/4	2-3/4	3-1/2	1-1/4	4	3/4	4-1/4
2	1-1/16	4	5/8	2-1/2	3-1/4	1-1/16	8	5/8	2-3/4	3-1/2	1-1/16	8	5/8	4-1/4
2-1/2	1-1/16	4	5/8	2-3/4	3-1/2	1-1/4	8	3/4	3-1/4	4	1-1/4	8	3/4	4-3/4
3	1-1/16	4	5/8	3	3-1/2	1-1/4	8	3/4	3-1/2	4-1/4	1-1/4	8	3/4	5
3-1/2	1-1/16	8	5/8	3	3-1/2	1-1/4	8	3/4	3-1/2	4-1/4	1-7/16	8	7/8	5-1/2
4	1-1/16	8	5/8	3	3-1/2	1-1/4	8	3/4	3-3/4	4-1/2	1-7/16	8	7/8	5-1/2
5	1-1/4	8	3/4	3	3-3/4	1-1/4	8	3/4	4	4-3/4	1-7/16	8	7/8	5-3/4
6	1-1/4	8	3/4	3-1/4	4	1-1/4	12	3/4	4	4-3/4	1-7/16	12	7/8	6
8	1-1/4	8	3/4	3-1/2	4-1/4	1-7/16	12	7/8	4-1/2	5-1/2	1-5/8	12	1	6-3/4
10	1-7/16	12	7/8	3-3/4	4-3/4	1-5/8	16	1	5-1/4	6-1/4	1-13/16	16	1-1/8	7-1/2
12	1-7/16	12	7/8	4	4-3/4	1-13/16	16	1-1/8	5-3/4	6-3/4	2	16	1-1/4	8
14	1-5/8	12	1	4-1/4	5-1/4	1-13/16	20	1-1/8	6	7	2	20	1-1/4	8-1/4
16	1-5/8	16	1	4-1/2	5-1/2	2	20	1-1/4	6-1/4	7-1/2	2-3/16	20	1-3/8	8-3/4
18	1-13/16	16	1-1/8	4-3/4	6	2	24	1-1/4	6-1/2	7-3/4	2-3/16	24	1-3/8	9
20	1-13/16	20	1-1/8	5	6-1/4	2	24	1-1/4	6-3/4	8-1/4	2-3/8	24	1-1/2	9-3/4
24	2	20	1-1/4	5-1/2	7	2-3/8	24	1-1/2	7-3/4	9-1/4	2-3/4	24	1-3/4	10-3/4

Nominal Pipe Size	600 LB FLANGES (4)				900 LB FLANGES (4)				1500 LB FLANGES (4)				2500 LB FLANGES (4)			
	2H Nut Wrench Size	No. of Studs	Dia of Studs	Length of Studs	2H Nut Wrench Size	No. of Studs	Dia of Studs	Length of Studs	2H Nut Wrench Size	No. of Studs	Dia of Studs	Length of Studs	2H Nut Wrench Size	No. of Studs	Dia. of Studs	Length of Studs
1/2	7/8	4	1/2	3	1-1/4	4	3/4	4-1/4	1-1/4	4	3/4	4-1/4	1-1/4	4	3/4	4-3/4
3/4	1-1/16	4	5/8	3-1/2	1-1/4	4	3/4	4-1/2	1-1/4	4	3/4	4-1/2	1-1/4	4	3/4	5
1	1-1/16	4	5/8	3-1/2	1-7/16	4	7/8	5	1-7/16	4	7/8	5	1-7/16	4	7/8	5-1/2
1-1/4	1-1/16	4	5/8	3-3/4	1-7/16	4	7/8	5	1-7/16	4	7/8	5	1-5/8	4	1	6
1-1/2	1-1/4	4	3/4	4-1/4	1-5/8	4	1	5-1/2	1-5/8	4	1	5-1/2	1-13/16	4	1-1/8	6-3/4
2	1-1/16	8	5/8	4-1/4	1-7/16	8	7/8	5-3/4	1-7/16	8	7/8	5-3/4	1-5/8	8	1	7
2-1/2	1-1/4	8	3/4	4-3/4	1-5/8	8	1	6-1/4	1-5/8	8	1	6-1/4	1-13/16	8	1-1/8	7-3/4
3	1-1/4	8	3/4	5	1-7/16	8	7/8	5-3/4	1-13/16	8	1-1/8	7	2	8	1-1/4	8-3/4
3-1/2	1-7/16	8	7/8	5-1/2												
4	1-7/16	8	7/8	5-3/4	1-13/16	8	1-1/8	6-3/4	2	8	1-1/4	7-3/4	2-3/8	8	1-1/2	10
5	1-5/8	8	1	6-1/2	2	8	1-1/4	7-1/2	2-3/8	8	1-1/2	9-3/4	2-3/4	8	1-3/4	12
6	1-5/8	12	1	6-3/4	1-13/16	12	1-1/8	7-3/4	2-3/16	12	1-3/8	10-1/4	3-1/8	8	2	13-3/4
8	1-13/16	12	1-1/8	7-3/4	2-3/16	12	1-3/8	8-3/4	2-9/16	12	1-5/8	11-1/2	3-1/8	12	2	15-1/4
10	2	16	1-1/4	8-1/2	2-3/16	16	1-3/8	9-1/4	2-15/16	12	1-7/8	13-1/2	3-7/8	12	2-1/2	19-1/4
12	2	20	1-1/4	8-3/4	2-3/16	20	1-3/8	10	3-1/8	16	2	15	4-1/4	12	2-3/4	21-1/4
14	2-3/16	20	1-3/8	9-1/4	2-3/8	20	1-1/2	10-3/4	3-1/2	16	2-1/4	16-1/4				
16	2-3/8	20	1-1/2	10	2-9/16	20	1-5/8	11-1/4	3-7/8	16	2-1/2	17-3/4				
18	2-9/16	20	1-5/8	10-3/4	2-15/16	20	1-7/8	13	4-1/4	16	2-3/4	19-1/2				
20	2-9/16	24	1-5/8	11-1/2	3-1/8	20	2	13-3/4	4-5/8	16	3	21-1/2				
24	2-15/16	24	1-7/8	13	3-7/8	20	2-1/2	17-1/4	5-3/8	16	3-1/2	24-1/4				

### NOTES:

- 1) All dimensions in inches.
- 2) Lengths include allowance for pull-up.
- 3) Length based on 1/16" 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".

DISCLAIMER: Properties and application parameters shown in this manual are presented in good faith but no warranty is expressed or implied. Failure to properly use gasket material could result in serious injury or death.

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