



Lightning Bolt & Supply, Inc.

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Flange Bolting Chart - ASME B16.5

	Nominal Pipe Size (Inches)	RF Height	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14	16	18	20	24	
Class 150	Number of Bolts		4	4	4	4	4	4	4	4	8	8	8	8	8	12	12	12	16	16	20	20	
	Diameter of Bolt		1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	3/4	3/4	7/8	7/8	7/8	1	1	1 1/8	1 1/8	1 1/4	
	Stud Bolt Length	0.06	2 1/4	2 1/2	2 1/2	2 3/4	2 3/4	3 1/4	3 1/2	3 1/2	3 1/2	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5 1/4	5 1/4	5 3/4	6 1/4	6 3/4	
	Machine Bolt Length	0.06	2	2	2 1/4	2 1/4	2 1/2	2 3/4	3	3	3	3	3 1/4	3 1/4	3 1/2	4	4	4 1/2	4 1/2	5	5 1/2	6	
Class 300	Number of Bolts		4	4	4	4	4	8	8	8	8	8	8	12	12	16	16	20	20	24	24	24	
	Diameter of Bolt		1/2	5/8	5/8	5/8	3/4	5/8	3/4	3/4	3/4	3/4	3/4	3/4	3/4	7/8	1	1 1/8	1 1/8	1 1/4	1 1/4	1 1/4	1 1/2
	Stud Bolt Length	0.06	2 1/2	3	3	3 1/4	3 1/2	3 1/2	4	4 1/4	4 1/4	4 1/2	4 3/4	4 3/4	5 1/2	6 1/4	6 3/4	7	7 1/2	7 3/4	8	9	
	Machine Bolt Length	0.06	2 1/4	2 1/2	2 1/2	2 3/4	3	3	3 1/4	3 1/2	3 3/4	3 3/4	4 1/4	4 1/4	4 1/4	4 3/4	5 1/2	5 3/4	6 1/4	6 1/2	6 3/4	7 1/4	8
Class 400	Number of Bolts		4	4	4	4	4	8	8	8	8	8	8	12	12	16	16	20	20	24	24	24	
	Diameter of Bolt		1/2	5/8	5/8	5/8	3/4	5/8	3/4	3/4	7/8	7/8	7/8	7/8	1	1 1/8	1 1/4	1 1/4	1 3/8	1 3/8	1 1/2	1 3/4	
	Stud Bolt Length	1/4	3	3 1/2	3 1/2	3 3/4	4 1/4	4 1/4	4 3/4	5	5 1/2	5 1/2	5 3/4	6	6 3/4	7 1/2	8	8 1/4	8 3/4	9	9 1/2	10 1/2	
Class 600	Number of Bolts		4	4	4	4	4	8	8	8	8	8	8	12	12	16	20	20	20	20	24	24	
	Diameter of Bolt		1/2	5/8	5/8	5/8	3/4	5/8	3/4	3/4	7/8	7/8	1	1	1 1/8	1 1/4	1 1/4	1 3/8	1 1/2	1 5/8	1 5/8	1 7/8	
	Stud Bolt Length	1/4	3	3 1/2	3 1/2	3 3/4	4 1/4	4 1/4	4 3/4	5	5 1/2	5 3/4	6 1/2	6 3/4	7 1/2	8 1/2	8 3/4	9 1/4	10	10 3/4	11 1/4	13	
Class 900	Number of Bolts		4	4	4	4	4	8	8	8	8	8	8	12	12	16	20	20	20	20	20	20	
	Diameter of Bolts		1/2	5/8	5/8	5/8	3/4	5/8	3/4	7/8		1 1/8	1 1/4	1 1/8	1 3/8	1 3/8	1 3/8	1 1/2	1 5/8	1 7/8	2	2 1/2	
	Raised Face 0.25 in.	1/4	3	3 1/2	3 1/2	3 3/4	4 1/4	4 1/4	4 3/4	5.75		6.75	7.50	7.50	8.75	9.25	10.00	10.75	11.25	12.75	13.75	17.25	
	Number of Bolts		4	4	4	4	4	8	8	8	8	8	8	12	12	12	16	16	16	16	16	16	
Class 1500	Diameter of Bolts		3/4	3/4	7/8	7/8	1	7/8	1	1 1/8		1 1/4	1 1/2	1 3/8	1 5/8	1 7/8	2	2 1/4	2 1/2	2 3/4	3	3 1/2	
	Raised Face 0.25 in.	1/4	4.25	4.50	5.00	5.00	5.50	5.75	6.25	7.00		7.75	9.75	10.25	11.50	13.25	14.75	16.00	17.50	19.50	21.25	24.25	
	Number of Bolts		4	4	4	4	4	8	8	8	8	8	8	12	12	12							
Class 2500	Diameter of Bolts		3/4	3/4	7/8	1	1 1/8	1	1 1/8	1 1/4		1 1/2	1 3/4	2	2	2 1/2	2 3/4						
	Raised Face 0.25 in.	1/4	4.75	5.00	5.50	6.00	6.75	7.00	7.75	8.75		10.00	11.75	13.50	15.00	19.25	21.25						