

Bolt Chart ASME B16.5

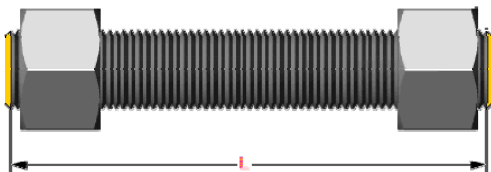
ASME B16.5 Flanges 150 - 600 lb

Nominal Pipe Size			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	
150 LB. Flanges	Stud Diameter Stud Length # of Studs	1/16 RF	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	3/4	3/4	3/4	7/8	7/8	1	1	1 1/8	1 1/8	1 1/4	
			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 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
			4	4	4	4	4	4	4	4	4	8	8	8	8	8	12	12	12	16	16	20	20
300 LB. Flanges	Stud Diameter Stud Length # of Studs	1/16 RF	1/2	5/8	5/8	5/8	3/4	5/8	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 1/4	1 1/2
			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	
			4	4	4	4	4	8	8	8	8	8	8	12	12	16	16	20	20	24	24	24	
600 LB. Flanges	Stud Diameter Stud Length # of Studs	1/4 RF	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	
			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	
			4	4	4	4	4	8	8	8	8	8	8	8	12	12	16	20	20	20	20	24	24

ASME B16.5 Flanges 900 - 2500 lb

Nominal Pipe Size			1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	-	4	5	6	8	10	12	14	16	18	20	24
900 LB. Flanges	Stud Diameter Stud Length # of Studs	1/4 RF	3/4	3/4	7/8	7/8	1	7/8	1	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
			4 1/4	4 1/2	5	5	5 1/2	5 3/4	6 1/4	5 3/4	-	6 3/4	7 1/2	7 1/2	8 3/4	9 1/4	10	10 3/4	11 1/4	12 3/4	13 3/4	17 1/4
			4	4	4	4	4	8	8	8	-	8	8	12	12	16	20	20	20	20	20	20
1500 LB. Flanges	Stud Diameter Stud Length # of Studs	1/4 RF	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
			4 1/4	4 1/2	5	5	5 1/2	5 3/4	6 1/4	7	-	7 3/4	9 3/4	10 1/4	11 1/2	13 1/4	14 3/4	16	17 1/2	19 1/2	21 1/4	24 1/4
			4	4	4	4	4	8	8	8	-	8	8	12	12	12	16	16	16	16	16	16
2500 LB. Flanges	Stud Diameter Stud Length # of Studs	1/4 RF	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	-	-	-	-	-
			4 3/4	5	5 1/2	6	6 3/4	7	7 3/4	8 3/4	-	10	11 3/4	13 1/2	15	19 1/4	21 1/4	-	-	-	-	-
			4	4	4	4	4	8	8	8	-	8	8	8	12	12	12	-	-	-	-	-

The length L does not include the height of end points or chamfers. An end point is defined as an unthreaded length, chamfer or bevel, which extends beyond the thread. The bolt lengths are reference dimensions. Users may select other bolting lengths.



Pressure Control Bolting
ASTM A193 Grade B7 All Thread Studs
ASTM A194 Grade 2H Heavy Hex Nuts

An Allied Group Company

Sigma Fasteners
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Bolt Chart ASME B16.47



ASME B16.47 Series A Flanges

Nominal Pipe Size			26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
150 LB. Flanges	Stud Diameter	RF	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4
	Stud Length		9	9	9 1/2	10 1/4	10 1/2	11	11	11 1/4	11 1/2	12	12	12 1/2	13 1/4	13 1/2	14	14 1/4	14 1/2	15
	# of Studs		24	28	28	28	32	32	32	36	36	40	40	44	44	44	44	48	48	52
300 LB. Flanges	Stud Diameter	RF	1 5/8	1 5/8	1 3/4	1 7/8	1 7/8	2	1 1/2	1 5/8	1 5/8	1 3/4	1 7/8	1 7/8	2	2	2 1/4	2 1/4	2 1/4	2 1/4
	Stud Length		10 1/2	11	11 3/4	12 1/2	12 3/4	13 1/4	12 1/2	13 1/4	13 3/4	14 1/4	14 3/4	15 1/4	16	16 1/2	17 1/2	17 1/2	18	18 1/2
	# of Studs		28	28	28	28	28	32	32	32	32	32	28	32	32	32	28	28	32	32
600 LB. Flanges	Stud Diameter	RF	1 7/8	2	2	2 1/4	2 1/4	2 1/2	2 1/4	2 1/4	2 1/2	2 1/2	2 1/2	2 3/4	3	3	3	3 1/4	3 1/4	3 1/2
	Stud Length		13 3/4	14 1/4	14 1/2	15 1/4	15 1/2	16 1/4	18	18 1/2	19 3/4	20	20 1/2	21 3/4	23	23 1/2	24	25	25 1/2	26 3/4
	# of Studs		28	28	28	28	28	28	28	32	28	32	32	32	32	28	32	32	32	32
900 LB. Flanges	Stud Diameter	RF	2 3/4	3	3	3 1/4	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 3/4	4	4	-	-	-	-	-	-
	Stud Length		18	18 3/4	19 1/4	20 1/2	21 1/2	22	23 1/2	24	24 3/4	25 3/4	27 1/4	27 3/4	-	-	-	-	-	-
	# of Studs		20	20	20	20	20	20	20	24	24	24	24	24	-	-	-	-	-	-

ASME B16.47 Series B Flanges

Nominal Pipe Size			26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
150 LB. Flanges	Stud Diameter	RF	3/4	3/4	3/4	3/4	7/8	7/8	1	1	1	1	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/4	1 1/4
	Stud Length		5 3/4	6	6	6	6 3/4	6 3/4	7 1/4	7 1/2	7 1/2	7 3/4	8 1/4	8 1/4	8 3/4	8 3/4	8 3/4	9	9 1/2	9 1/2
	# of Studs		36	40	44	48	40	44	40	44	48	52	40	44	48	52	56	60	48	52
300 LB. Flanges	Stud Diameter	RF	1 1/4	1 1/4	1 3/8	1 1/2	1 1/2	1 5/8	1 5/8	1 5/8	1 3/4	1 3/4	1 7/8	1 7/8	1 7/8	1 7/8	1 7/8	2 1/4	2 1/4	2 1/4
	Stud Length		10 1/2	10 1/2	11 1/4	12	12	12 1/4	13	13 1/4	14	14 1/2	14 3/4	14 3/4	15 3/4	16	15 1/2	17 1/2	17 1/2	17 1/2
	# of Studs		32	36	36	32	36	32	36	40	36	40	36	40	44	48	48	36	40	40
600 LB. Flanges	Stud Diameter	RF	1 5/8	1 3/4	1 7/8	2	2 1/4	2 1/4	2 1/4	2 1/4	2 1/2	2 1/2	2 1/2	2 3/4	3	3	3	3 1/4	3 1/4	3 1/2
	Stud Length		13 1/2	14	15	15 3/4	17	17 1/2	18	18 1/2	19 3/4	20	20 1/2	21 3/4	23	23 1/2	24	25	25 1/2	26 3/4
	# of Studs		28	28	28	28	24	28	28	32	28	32	32	32	32	28	32	32	32	32
900 LB. Flanges	Stud Diameter	RF	2 1/2	2 3/4	3	3	3 1/4	3	3 1/2	3 1/2	3 1/2	3 3/4	4	4	-	-	-	-	-	-
	Stud Length		17	18 1/2	19 3/4	20	21 1/2	21	23 1/2	24	24 3/4	25 3/4	27 1/4	27 3/4	-	-	-	-	-	-
	# of Studs		20	20	20	20	20	24	20	24	24	24	24	24	-	-	-	-	-	-

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