
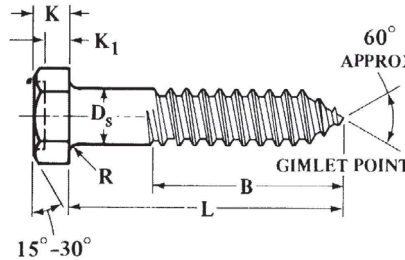
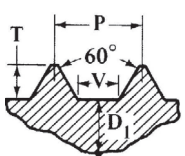
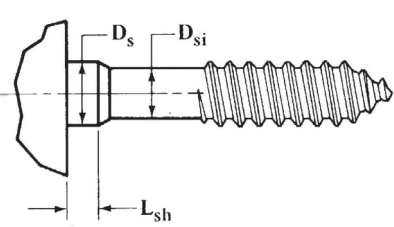


METRIC SCREWS AND BOLTS

Table 5. American National Standard Metric Hex Lag Screws
ANSI B18.2.3.8M-1981, R1991

INDENTATION AND CONFIGURATION OPTIONAL									
									
Nominal Screw Dia., <i>D</i>	Body Diameter, <i>D_s</i>		Width Across Flats, <i>S</i>		Width Across Corners, <i>E</i>		Head Height, <i>K</i>		Wrenching Height, <i>K₁</i>
	Max	Min	Max	Min	Max	Min	Max	Min	Min
5	5.48	4.52	8.00	7.64	9.24	8.63	3.9	3.1	2.4
6	6.48	5.52	10.00	9.64	11.55	10.89	4.4	3.6	2.8
8	8.58	7.42	13.00	12.57	15.01	14.20	5.7	4.9	3.7
10	10.58	9.42	16.00	15.57	18.48	17.59	6.9	5.9	4.5
12	12.70	11.30	18.00	17.57	20.78	19.85	8.0	7.0	5.2
16	16.70	15.30	24.00	23.16	27.71	26.17	10.8	9.3	7.0
20	20.84	19.16	30.00	29.16	34.64	32.95	13.4	11.6	8.8
24	24.84	23.16	36.00	35.00	41.57	39.55	15.9	14.1	10.5
Nominal Screw Dia., <i>D</i>	Thread Dimensions				Nominal Screw Dia., <i>D</i>	Thread Dimensions			
	Thread Pitch, <i>P</i>	Flat at Root, <i>V</i>	Depth of Thread, <i>T</i>	Root Dia., <i>D₁</i>		Thread Pitch, <i>P</i>	Flat at Root, <i>V</i>	Depth of Thread, <i>T</i>	Root Dia., <i>D₁</i>
5	2.3	1.0	0.9	3.2	12	4.2	1.8	1.6	8.7
6	2.5	1.1	1.0	4.0	16	5.1	2.2	2.0	12.0
8	2.8	1.2	1.1	5.8	20	5.6	2.4	2.2	15.6
10	3.6	1.6	1.4	7.2	24	7.3	3.1	2.8	18.1
REDUCED BODY DIAMETER									
									
Nominal Screw Dia., <i>D</i>	Shoulder Diameter, <i>D_s</i>		Shoulder Length, <i>L_{sh}</i>		Nominal Screw Dia., <i>D</i>	Shoulder Diameter, <i>D_s</i>		Shoulder Length, <i>L_{sh}</i>	
	Max	Min	Max	Min		Max	Min	Max	Min
5	5.48	4.52	3.5	2.5	12	12.70	11.30	7.0	6.0
6	6.48	5.52	4.0	3.0	16	16.70	15.30	9.0	8.0
8	8.58	7.42	5.0	4.0	20	20.84	19.16	11.0	10.0
10	10.58	9.42	6.0	5.0	24	24.84	23.16	13.0	12.0

All dimensions are in millimeters. Reduced body diameter, *D_{si}*, is the blank diameter before rolling. Shoulder is mandatory when body diameter is reduced.