

General Torque Requirements Table

Torque values=inch-lbs

Bolt Size	18-8 Stainless Steel	Brass	Aluminum 2024-T4	316 Stainless Steel	Nylon
2 - 56	2.5	2.0	1.4	2.6	0.44
4 - 40	5.2	4.3	2.9	5.5	1.19
4 - 48	6.6	5.4	3.6	6.9	
6 - 32	9.6	7.9	5.3	10.1	2.14
6 - 40	12.1	9.9	6.6	12.7	
8 - 32	19.8	16.2	10.8	20.7	4.30
8 - 36	22.0	18.0	12.0	23.0	
10 - 24	22.8	18.6	13.8	23.8	6.61
10 - 32	31.7	25.9	19.2	33.1	8.20
1/4" - 20	75.2	61.5	45.6	78.8	16.00
1/4" - 28	94.0	77.0	57.0	99.0	20.80
5/16" - 18	132.0	107.0	80.0	138.0	34.90
5/16" - 24	142.0	116.0	86.0	147.0	
3/8" - 16	236.0	192.0	143.0	247.0	
3/8" - 24	259.0	212.0	157.0	271.0	
7/16" - 14	376.0	317.0	228.0	418.0	
7/16" - 20	400.0	357.0	242.0	418.0	
1/2" - 13	517.0	422.0	313.0	542.0	
1/2" - 20	541.0	443.0	328.0	565.0	
9/16" - 12	682.0	558.0	413.0	713.0	
9/16" - 18	752.0	615.0	456.0	787.0	
5/8" - 11	1110.0	907.0	715.0	1160.0	
5/8" - 18	1244.0	1016.0	798.0	1301.0	
3/4" - 10	1530.0	1249.0	980.0	1582.0	
3/4" - 16	1490.0	1220.0	958.0	1558.0	
7/8" - 9	2328.0	1905.0	1495.0	2430.0	
7/8" - 14	2318.0	1895.0	1490.0	2420.0	
1" - 8	3440.0	2815.0	2205.0	3595.0	
1" - 14	3110.0	2545.0	1995.0	3250.0	

Mild Steel (AISI c1010-1012) screw Torque Spec

Size/Thread	Recommended torque
6 - 32	10.4 +/- 20%
6 - 40	11.6 +/- 20%
8 - 32	18.9 +/- 20%
8 - 36	20.0 +/- 20%
10 - 24	27.4 +/- 20%
10 - 32	31.4 +/- 20%
1/4" - 20	66.0 +/- 20%
1/4" - 28	75.0 +/-10%
5/16" - 18	135.0 +/-10%
5/16" - 24	150.0 +/-10%
3/8" - 16	240.0 +/-10%
3/8" - 24	258.0 +/- 5.4%
7/16" - 14	365.0 +/- 5.4%
7/16" - 20	406.5 +/- 5.3%
1/2" - 13	555.0 +/- 5.4%
1/2" - 20	627.5 +/- 5.2%

Base on screw and nut all are same material (c1008-1012)

Mild Steel (AISI c1010-1012) screw Torque Spec (Metric) in-lb / N-m

Size/Thread	Recommended torque(in-lb)	Recommended torque(N-m)
M1.6	1.0 +/- 20%	0.12 +/- 20%
M2.5	4.0 +/- 20%	0.45 +/- 20%
M3	7.6 +/- 20%	0.86 +/- 20%
M3.5	11.9 +/- 20%	1.4 +/- 20%
M4	17.7 +/- 20%	2.0 +/- 20%
M5	35.7 +/- 10%	4.0 +/- 10%
M6	60.0 +/- 10%	6.9 +/- 10%
M7	102.0 +/- 10%	11.5 +/- 10%
M8	147.0 +/- 10%	16.7 +/- 10%
M10	292.0 +/- 10%	33.0 +/- 10%
M12	509.0 +/- 10%	58.0 +/- 10%

Base on screw and nut all are same material (c1008-1012)