



Torque Chart

		18-8	316					1018-1022			
Torque	Bolt	Stainless	Stainless	Silicon			2024-T4	Low Carbon	Grade	Grade	Grade
Measurement	Size	Steel	Steel	Bronze	Monel	Brass	Aluminum	Steel	2	5	8
Inch LBS.	0-80							1			
Inch LBS.	1-64							1.5			
Inch LBS.	1-72							2			
Inch LBS.	2-48	2.5	2.6	2.3	2.5	2	1.4	2.2			
Inch LBS.	2-56	3	3.2	2.8	3.1	2.5	1.4	2.7			
Inch LBS.	3-48	3.9	4	3.6	4	3.2	2.1	3.5			
Inch LBS.	3-56	4.4	4.6	4.1	4.5	3.6	2.4	4			
Inch LBS.	4-40	5.2	5.5	4.8	5.3	4.3	2.9	4.7			
Inch LBS.	4-48	6.6	6.9	6.1	6.7	5.4	3.6	5.9			
Inch LBS.	5-40	7.7	8.1	7.1	7.8	6.3	4.2	6.9			
Inch LBS.	5-44	9.4	9.8	8.7	9.6	7.7	5.1	8.5			
Inch LBS.	6-32	9.6	10.1	8.9	9.8	7.9	5.3	8.7			
Inch LBS.	6-40	12.1	12.7	11.2	12.3	9.9	6.6	10.9			
Inch LBS.	8-32	19.8	20.7	18.4	20.2	16.2	10.8	17.8			
Inch LBS.	8-36	22	23	20.4	22.4	18	12	19.8			
Inch LBS.	10-24	22.8	23.8	21.2	25.9	18.6	13.8	20.8			
Inch LBS.	10-32	31.7	33.1	29.3	34.9	25.9	19.2	29.7			
Inch LBS.	1/4-20	75.2	78.8	68.8	85.3	61.5	45.6	65	66.0	101	129
Inch LBS.	1/4-28	94	99	87	106	77	57	90	75.0	116	147
Inch LBS.	5/16-18	132	138	123	149	107	80	129	135.0	209	295
Inch LBS.	5/16-24	142	147	131	160	116	86	139	150.0	231	294
Inch LBS.	3/8-16	236	247	219	266	192	143	212	240.0	372	528

Inch LBS.	3/8-24	259	271	240	294	212	157	232	276.0	420	588
Inch LBS.	7/16-14	376	393	349	427	317	228	338	384.0	588	840
Inch LBS.	7/16-20	400	418	371	451	327	242	361	432.0	660	936
Inch LBS.	1/2-13	516	541	480	584	422	312	465	588.0	900	1272
Inch LBS.	1/2-20	541	565	504	612	444	324	487	660.0	1020	1440

Note

The values listed above are for clean and dry parts free of lubricants and thread lockers. A lubricated fastener must have the torque values reduced 25 - 30% from the above ratings. Keep in mind that this is only an estimated value. It may provide satisfactory performance. Every application needs to be evaluated on its own to determine the optimum torque for each application.

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