



Torque Values for Stainless Steel and Non-Ferrous Fasteners

Bolt Size	18-8 Stainless Steel		316 Stainless Steel		Silicon Bronze	Monel	Brass	2024-T4 Aluminum
	Dry	Lubricated	Dry	Lubricated				
2-56	2.5 in-lbs	2.1 in-lbs	2.6 in-lbs	2.2 in-lbs	2.3 in-lbs	2.5 in-lbs	2.0 in-lbs	1.4 in-lbs
2-64	3	2.6	3.2	2.7	2.8	3.1	2.5	1.7
4-40	5.2	4.4	5.5	4.7	4.8	5.3	4.3	2.9
4-48	6.6	5.6	6.9	5.9	6.1	6.7	5.4	3.6
5-40	7.7	6.5	8.1	6.9	7.1	7.8	6.3	4.2
5-44	9.4	8.0	9.8	8.3	8.7	9.6	7.7	5.1
6-32	9.6	8.2	10.1	8.6	8.9	9.8	7.9	5.3
6-40	12.1	10.3	12.7	10.8	11.2	12.3	9.9	6.6
8-32	19.8	16.8	20.7	17.6	18.4	20.2	16.2	10.8
8-36	22	18.7	23	19.6	20.4	22.4	18.0	12.0
10-24	22.8	19.4	23.8	20.2	21.2	25.9	18.6	13.8
10-32	31.7	26.9	33.1	28.1	29.3	34.9	25.9	19.2
1/4-20	75.2	63.9	78.8	67	68.8	85.3	61.5	45.6
1/4-28	94	80	99	84	87	106	77	57
5/16-18	132	112	138	117	123	149	107	80
5/16-24	142	121	147	125	131	160	116	86
3/8-16	236	201	247	210	219	266	192	143
3/8-24	259	220	271	230	240	294	212	157
7/16-14	376	320	393	334	349	427	317	228
7/16-20	400	340	418	355	371	451	327	242
1/2-13	43 ft-lbs	37 ft-lbs	45 ft-lbs	38 ft-lbs	40 ft-lbs	48.7 ft-lbs	35.2 ft-lbs	26 ft-lbs
1/2-20	45	38	47	40	42	51	37	27
9/16-12	56	48	59	50	53	65	47	34
9/16-18	62	53	65	55	58	71	51	38
5/8-11	92	78	96	82	86	111	76	60
5/8-18	103	88	108	92	96	123	85	67
3/4-10	127	108	131	111	118	153	104	82
3/4-16	124	105	129	110	115	149	102	80
7/8-9	194	165	202	172	178	231	159	124
7/8-14	193	164	201	171	177	230	158	124
1 - 8	286	243	299	254	265	344	235	184
1 - 14	259	220	270	230	240	311	212	166
1-1/8 - 7	413	351	432	367	383	499	337	265
1-1/8 - 12	390	332	408	347	361	470	318	251
1-1/4 - 7	523	445	546	464	485	627	428	336
1 1/4 - 12	480	408	504	428	447	575	394	308
1-1/2 - 6	888	755	930	791	822	1064	727	570
1-1/2 - 12	703	598	732	622	651	840	575	450

Suggested Maximum Torquing Values - a guide based upon actual lab testing on dry or near dry fasteners wiped clean. While Fastenal has used reliable sources and testing to determine these values, there are many variables that will effect the results and the use of this information is at sole risk of the user.

Values through 7/16" diameter are stated in inch-pounds; 1/2" diameter and over are stated in foot-pounds.