



**English Units: (Coarse Thread Series)**

Thread Size & Pitch	GRADE 1		GRADE 2		GRADES 5, 5.2 & 5.1		GRADES 8, 8.1 & 8.2	
	Clamp Load (lb)	Tightening Torque (tt-lb)	Clamp Load (lb)	Tightening Torque (tt-lb)	Clamp Load (lb)	Tightening Torque (tt-lb)	Clamp Load (lb)	Tightening Torque (tt-lb)
6 - 32	225	0.52	375	0.86	579	1.33	818	1.88
8 - 32	347	0.95	578	1.58	893	2.44	1260	3.44
10 - 24	433	1.37	722	2.29	1116	3.53	1575	4.99
12 - 24	599	2.16	998	3.59	1543	5.55	2178	7.84
1/4 - 20	787	3.28	1312	5.47	2027	8.45	2862	11.9
5/16 - 18	1297	6.75	2162	11.3	3341	17.4	4716	24.6
3/8 - 16	1918	12.0	3197	20.0	4941	30.9	6975	43.6
7/16 - 14	2631	19.2	4385	32.0	6777	49.4	9567	69.8
1/2 - 13	3512	29.3	5853	48.8	9046	75.4	12771	106
9/16 - 12	4505	42.2	7508	70.4	11603	109	16380	154
5/8 - 11	5594	58.3	9323	97.1	14408	150	20340	212
3/4 - 10	8267	103	8267	103	21293	266	30060	376
7/8 - 9	11435	167	11435	167	29453	430	41580	606
1 - 8	14999	250	14999	250	33633	561	54540	909
1-1/8 - 7	18884	354	18884	354	42347	794	68670	1288
1-1/4 - 7	23983	500	23983	500	53780	1120	87210	1817
1-3/8 - 6	28586	655	28586	655	64103	1469	103950	2382
1-1/2 - 6	34774	869	34774	869	77978	1949	126450	3161

**English Units: (Fine Thread Series)**

Thread Size & Pitch	GRADE 1		GRADE 2		GRADES 5, 5.2 & 5.1		GRADES 8, 8.1 & 8.2	
	Clamp Load (lb)	Tightening Torque (tt-lb)	Clamp Load (lb)	Tightening Torque (tt-lb)	Clamp Load (lb)	Tightening Torque (tt-lb)	Clamp Load (lb)	Tightening Torque (tt-lb)
6 - 40	251	0.58	419	0.96	647	1.49	914	2.10
8 - 36	365	1.00	608	1.66	940	2.57	1327	3.63
10 - 32	495	1.57	825	2.61	1275	4.04	1800	5.70
12 - 28	639	2.30	1064	3.83	1645	5.92	2322	8.36
1/4 - 28	901	3.75	1502	6.26	2321	9.7	3276	13.7
5/16 - 24	1436	7.48	2393	12.5	3698	19.3	5220	27.2
3/8 - 24	2173	13.6	3622	22.6	5597	35.0	7902	49.4
7/16 - 20	2938	21.4	4896	35.7	7567	55.2	10683	77.9
1/2 - 20	3958	33.0	6596	55.0	10194	84.9	14391	120
9/16 - 18	5024	47.1	8374	78.5	12941	121	18270	171
5/8 - 18	6336	66.0	10560	110	16320	170	23040	240
3/4 - 16	9232	115	9232	115	23779	297	33570	420
7/8 - 14	12598	184	12598	184	32449	473	45810	668
1 - 12	16409	273	16409	273	36797	613	59670	995
1-1/8 - 12	21186	397	21186	397	47508	891	77040	1445
1-1/4 - 12	26557	553	26557	553	59552	1241	96570	2012
1-3/8 - 12	32546	746	32546	746	72983	1673	118350	2712
1-1/2 - 12	39130	978	39130	978	87746	2194	142290	3557

The values presented in these tables are representative and have been compiled for the user's benefit. Results can be influenced by any number of variables including: 1) excessive lubrication; 2) excessive design clamp load; 3) nicked or binding threads; 4) non-parallel mating surfaces; and 5) inadequate torque control, to name a few. Therefore; C-I, Inc. expressly disclaims liability of any kind associated with the approach of the data shown herein.