



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

Thread Size & Pitch	CLASS 4.6		CLASS 5.8		CLASS 9.8		CLASS 10.9	
	Clamp Load (KN)	Tightening Torque (N*m)	Clamp Load (KN)	Tightening Torque (N*m)	Clamp Load (KN)	Tightening Torque (N*m)	Clamp Load (KN)	Tightening Torque (N*m)
M6 x 1	3.41	4.09	5.73	6.87	9.80	11.76	12.5	15
M7 x 1	4.90	6.86	8.24	11.5	14.1	19.72	18.0	25
M8 x 1.25	6.20	9.93	10.4	16.7	17.8	28.55	22.8	36
M10 x 1.5	9.8	19.7	16.5	33.1	28.3	56.55	36.1	72
M12 x 1.75	14.3	34.3	24.0	57.7	41.1	98.63	52.5	126
M14 x 2	19.5	54.6	32.8	91.8	56.1	157	71.6	200
M16 x 2	26.6	85.2	44.7	143	76.5	245	97.7	313
M18 x 2.5	32.5	117	54.7	197	93.6	337	120	430
M20 x 2.5	41.5	166	69.8	279	119	478	153	610
M22 x 2.5	51.4	226	86.4	380	148	650	189	830
M24 x 3	59.8	287	101	483	172	826	220	1055
M27 x 3	77.8	420	131	706	224	1208	286	1543
M30 x 3.5	95.1	571	160	959	273	1641	349	2095
M33 x 3.5	118	776	198	1305	338	2233	432	2851
M36 x 4	138	997	233	1676	398	2868	509	3662
M39 x 4	165	1290	278	2170	476	3711	608	4739

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

Thread Size & Pitch	CLASS 4.6		CLASS 5.8		CLASS 9.8		CLASS 10.9	
	Clamp Load (KN)	Tightening Torque (N*m)	Clamp Load (KN)	Tightening Torque (N*m)	Clamp Load (KN)	Tightening Torque (N*m)	Clamp Load (KN)	Tightening Torque (N*m)
M8 x 1	6.64	10.6	11.2	17.9	19.1	30.6	24.4	39.0
M10 x 1.25	10.4	20.7	17.4	34.9	29.8	59.7	38.1	76.2
M12 x 1.25	15.6	37.5	26.2	63.0	44.9	108	57.3	138
M14 x 1.5	21.2	59.3	35.6	100	60.9	171	77.8	218
M16 x 1.5	28.3	90.6	47.6	152	81.4	261	104	333
M18 x 1.5	36.6	132	61.6	222	105	379	134	484
M20 x 1.5	46.1	184	77.5	310	133	530	169	677
M22 x 1.5	56.4	248	94.9	418	162	714	207	912
M24 x 2	65.1	312	109	525	187	899	239	1147
M27 x 2	84.1	454	141	763	242	1306	309	1667
M30 x 2	105	632	177	1062	303	1816	387	2319
M33 x 2	129	851	217	1431	371	2449	474	3127
M36 x 3	147	1056	247	1775	422	3036	538	3877
M39 x 3	175	1362	294	2290	502	3917	641	5001

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.