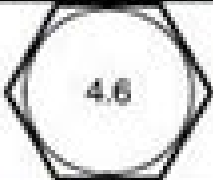
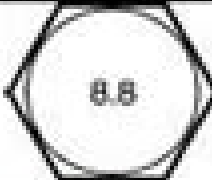


## Torque-Tension Relationship for Metric Fasteners

Nominal Dia. (mm)	Pitch	 Class 4.6				 Class 8.8			
		Clamp Load (lbs)	Tightening Torque			Clamp Load (lbs)	Tightening Torque		
			Lubricated (ft-lbs)	Zinc Plated (ft-lbs)	Plains&Dry (ft-lbs)		Lubricated (ft-lbs)	Zinc Plated (ft-lbs)	Plains&Dry (ft-lbs)
4	0.7	333	0.7	0.7	0.9	858	1.7	1.9	2.3
5	0.8	538	1.3	1.5	1.8	1387	3.4	3.9	4.5
6	1	763	2.3	2.6	3.0	1968	5.8	6.6	7.7
7	1	1095	3.8	4.3	5.0	2822	9.7	11.0	13.0
8	1.25	1389	5.5	6.2	7.3	3580	14.1	16.0	18.8
10	1.5	2200	10.8	12.3	14.4	5671	27.9	31.6	37.2
12	1.75	3197	18.9	21.4	25.2	8240	48.7	55.1	64.9
14	2	4379	30.2	34.2	40.2	11289	77.8	88.1	103.7
16	2	5943	47	53	62	15320	121	137	161
18	2.5	7301	65	73	86	18822	167	189	222
20	2.5	9286	91	104	122	23938	236	267	314
22	2.5	11509	125	141	166	29669	321	364	428
24	3	13372	158	179	211	34471	407	461	543
27	3	17428	232	262	309	44924	597	676	796
30	3.5	21266	314	356	419	54819	809	917	1079
33	3.5	26310	427	484	570	67821	1101	1248	1468
36	4	30982	549	622	732	79866	1415	1603	1886

# Bolt Tension Table Guide

**K. R. Rao**

A red circular graphic with a gradient, appearing as a stylized arrow or a decorative element, located to the right of the author's name.

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web the melt during fractional crystallization is  $c = a + c_0 - a f$  so that  $c = a + c_0 - a f$  what is important is the difference between  $d$  and  $b$  and for incompatible elements  $d$  and  $b$  will always be small so that the ratio change in the residual melt during

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web solids formed by batch and fractional melting in particular both instantaneous and average or accumulated fractional melts this is readily accomplished by calculations for a simple model for non modal melting of a garnet pyroxenite figure 35 the calculated results are shown in figure 36 most notable is that during fractional melting as  $f$

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web the percent recovery of the unknown was 78 shown in calculation 2 meaning again a significant amount of mass was lost during the recrystallization process the melting range of the unknown was observed to be 64 66 c and thus can be identified as biphenyl which has a melting range of 69 71 c

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