



# Suggested Torque Values

## ISO 898 Grd 10.9

Bolt Size	TPI	Proof Load (lbs)	Clamp Load (lbs)	Tightening Torque (ft.lbs)		
				Oil	Zinc	Plain
3mm	0.5	940	705	1.0	1.2	1.4
3.5mm	0.6	1266	949	1.6	1.9	2.2
4mm	0.7	1639	1229	2.4	2.7	3.2
5mm	0.8	2653	1989	4.9	5.5	6.5
6mm	1	3754	2816	8.3	9.4	11.1
7mm	1	5395	4046	13.9	15.8	18.6
8mm	1.25	6834	5125	20.2	22.9	26.9
10mm	1.5	10813	8110	39.9	45.2	53.2
12mm	1.75	15736	11802	69.7	79.0	92.9
14mm	2	21468	16101	110.9	125.7	147.9
16mm	2	29224	21918	172.6	195.6	230.1
18mm	2.5	35743	26807	237.4	269.1	316.6
20mm	2.5	45634	34226	336.9	381.8	449.2
22mm	2.5	56650	42487	460	521.3	613.3
24mm	3	65866	49400	583.4	661.2	777.9
27mm	3	85649	64237	853.5	967.3	1138
30mm	3.5	104757	78568	1160	1314.6	1546.6
33mm	3.5	129485	97114	1577.1	1787.4	2102.8
36mm	4	152414	114311	2025.2	2295.2	2700.2
39mm	4	182088	136566	2621	2970.5	3494.7