



## Bolt Torque Chart

GRADE 8 BOLT DRILL & TORQUE CHART IN FOOT POUNDS				
Size Threads/Inch	Tap Drill Size	Decimal Equivalent	Torque - FT LBS. Dry	Torque - FT LBS. Lubricated
1/4" - 20	#7	.201	12	9
1/4" - 28	#3	.213	14	10
5/16" - 24	F	.257	25	18
5/16" - 24	I	.272	25	20
3/8" - 16	5/16	.3125	45	35
3/8" - 24	Q	.332	50	35
7/16" - 14	U	.368	70	55
7/16" - 20	25/64	.3906	80	60
1/2" - 13	27/64	.4219	110	80
1/2" - 20	29/64	.4531	120	90
9/16" - 12	31/64	.4844	150	110
9/16" - 18	33/64	.5156	170	130
5/8" - 11	17/32	.5312	220	170
5/8" - 18	37/64	.5781	240	180
3/4" - 10	21/32	.6562	380	280
3/4" - 16	11/16	.6875	420	320
7/8" - 9	49/64	.7656	600	460
7/8" - 14	13/16	.8125	660	500
1" - 8	7/8	.875	900	680
1" - 12	59/64	.9219	1000	740
1" - 14	15/16	.9375	1020	760

Lubricated Includes: Lubricants - Plating - Hardened Washers  
 Tap Drills: Allow Approximately 75% Full Thread