

Bolt Tensile Strengths

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Bolt Grade/Tensile Strength

Note: NOT shear strength!

Grade	Dia(in)	Coarse(lbs)	Fine(lbs)
2	1/4	2350	2700
	5/16	3900	4300
	7/16	7850	8800
	1/2	10500	11800
	9/16	13500	15000
	5/8	16700	18900
	3/4	24700	27600
5	1/4	3800	4350
	5/16	6300	6950
	7/16	12800	14400
	1/2	17000	19200
	9/16	21800	24400
	5/8	27100	30700
	3/4	40100	44800
8	1/4	4750	5450
	5/16	7850	8700
	7/16	15900	17800
	1/2	21300	24000
	9/16	27300	30400
	5/8	33900	38400
	3/4	50100	56000

Nominal Assembly Torque (ft-lbs)

Dia.(in.)	Grade 2	Grade 5	Grade 8	Grade 9
1/4C	5.5	8	12	11
1/4F	6.3	10	14	13
5/16C	11	17	24	21

5/16F	12	19	27	23
7/16C	32	50	70	60
7/16F	36	55	80	65
1/2C	50	75	110	95
1/2F	55	85	120	105
9/16C	70	110	150	140
9/16F	80	120	170	150
5/8C	100	150	210	185
5/8F	110	170	240	205
3/4C	175	260	380	290
3/4F	200	300	420	355

C=coarse thread F=fine thread