

QualityNut Bolt Company

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






Fax # 605-338-0874

This table is to be used only as a guide. The values given are the maximum that should be used.

The torque values are proposed standard torque values for industrial metal fasteners.

The values given are the maximum that should be used, and are 60% to 70% of the lowest failing torque of any of the test group.

The tension achieved from any torque is directly related to the friction occurring during the fastening process. The greater the friction the less the resulting tension.

BOLT HEAD	BOLT GRADE	BOLT DIAMETER INCHES		1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	
		HEX SIZE INCHES	MAXIMUM	1/2	19/32	11/16	25/32	7/8	31/32	1-1/16	1-1/4	1-7/16	1-5/8	1-3/16	2	2-3/16	
			MINIMUM	3/8	15/32	9/16	21/32	3/4	27/32	15/16	1-1/8	1-5/16	1-1/2	1-11/16	1-7/8	2-1/8	
	GRADE 2	TORQUE	FT--LBS	6	11	19	30	45	66	93	150	202	300	474	659	884	
		TENSION	LBS	1,437	2,111	3,034	4,106	5,389	7,032	8,910	11,976	13,824	17,964	25,230	31,569	38,498	
	GRADE 5 & GRADE BB	TORQUE	FT--LBS	9	18	31	50	75	110	150	250	378	583	782	1,097	1,461	
			ASTM-A354	TENSION	LBS	2,155	3,455	4,950	6,843	8,982	11,720	14,371	19,960	25,868	34,910	41,623	52,551
	ASTM-A325	TORQUE	FT--LBS	100		200		355		525		790		1,060		1,960	
		TENSION	LBS	11,976		19,162		28,343		35,928		47,305		56,420		71,617	
	GRADE BC ASTM-A354	TORQUE	FT--LBS	11	20	34	54	81	119	167	269	427	644	1,002	1,392	1,868	
		TENSION	LBS	2,635	3,838	5,429	7,391	9,700	12,679	16,000	21,477	29,221	38,563	53,333	66,682	81,350	
	GRADE 8 ASTM-A354	TORQUE	FT--LBS	13	28	46	75	115	165	225	370	591	893	1,410	1,964	2,633	
		TENSION	LBS	3,114	5,374	7,345	10,265	13,772	17,580	21,557	29,541	40,445	53,473	75,050	94,083	114,665	
	ASTM-A490	TORQUE	FT-LBS	55		90		138		198		270		444		709	
		TENSION	LBS	8,782		12,318		16,527		21,097		25,868		35,449		48,520	
				90,060		113,053		137,572									