



INDUSTRIAL BOLTING



70% MIN. YIELD STRENGTH - B7 STUD				TORQUE FOR SPECIFIED LUBRICANT (ft-lb)							
BOLT SIZE & THREAD PITCH	HEX NUT SIZE	MIN YIELD STRESS (PSI)	BOLT TENSION (LBS)	MOLYBDENUM DISULFIDE K=06	MOLYLEAD OXIDE/ GRAPHITE K=085	COPPER GRAPH. K=10	NICKEL GRAPH. K=110	API SA2 K=117	MACHINE OIL K=150	DRY STEEL K=40	
3/4 x 10	1-1/4"	106,000	32,781	123	174	205	225	240	307	820	
7/8 x 9	1-7/16"	106,000	44,618	195	277	325	358	381	488	1,301	
1 x 8	1-5/8"	106,000	58,277	291	413	486	534	568	728	1,943	
1-1/8 x 8	1-13/16"	106,000	73,756	415	588	691	761	809	1,037	2,766	
1-1/4 x 8	2"	106,000	91,067	569	806	949	1,043	1,110	1,423	3,794	
1-3/8 x 8	2-3/16"	106,000	110,179	767	1,073	1,262	1,389	1,477	1,894	5,050	
1-1/2 x 8	2-3/8"	106,000	131,123	983	1,393	1,639	1,803	1,918	2,459	6,556	
1-5/8 x 8	2-9/16"	106,000	153,887	1,250	1,771	2,084	2,292	2,438	3,126	8,336	
1-3/4 x 8	2-3/4"	106,000	178,472	1,562	2,212	2,603	2,863	3,045	3,904	10,411	
1-7/8 x 8	2-15/16"	106,000	204,879	1,921	2,721	3,201	3,521	3,745	4,802	12,806	
2 x 8	3-1/8"	106,000	233,107	2,331	3,302	3,885	4,274	4,546	5,828	15,540	
2-1/8 x 8	3-5/16"	106,000	263,156	2,796	3,981	4,680	5,126	5,452	6,990	18,640	
2-1/4 x 8	3-1/2"	106,000	295,026	3,319	4,702	5,532	6,085	6,472	8,298	22,127	
2-3/8 x 8	3-11/16"	106,000	328,717	3,904	5,530	6,506	7,156	7,612	9,789	26,023	
2-1/2 x 8	3-7/8"	106,000	364,229	4,553	6,450	7,588	8,347	8,878	11,382	30,352	
2-3/4 x 8	4-1/4"	95,000	394,983	5,431	7,694	9,052	9,957	10,590	13,578	36,207	
3 x 8	4-5/8"	95,000	470,062	7,051	9,989	11,752	12,927	13,749	17,627	47,006	
3-1/4 x 8	5"	95,000	551,670	8,985	12,700	14,941	16,435	17,481	22,412	58,764	
3-1/2 x 8	5-3/8"	95,000	639,806	11,197	15,862	18,861	20,527	21,833	27,992	74,644	
3-3/4 x 8	5-3/4"	95,000	734,472	13,771	19,509	22,952	25,247	26,854	34,428	91,809	
4 x 8	6-1/8"	95,000	835,666	16,713	23,677	27,856	30,641	32,591	41,783	111,422	
4-1/4 x 8	6-1/2"	75,000	744,780	15,827	22,421	26,378	29,015	30,852	39,566	105,511	
4-1/2 x 8	6-7/8"	75,000	834,978	18,787	26,515	31,312	34,443	36,636	46,968	125,247	
4-3/4 x 8	7-1/4"	75,000	930,331	22,095	31,302	36,826	40,506	43,086	55,238	147,302	
5 x 8	7-5/8"	75,000	1,030,838	25,771	36,509	42,952	47,247	50,253	64,427	171,806	
5-1/4 x 8	8"	75,000	1,136,498	29,833	42,264	49,722	54,694	58,175	74,583	198,887	
5-1/2 x 8	8-3/8"	75,000	1,247,313	34,301	48,593	57,169	62,885	66,897	85,753	228,674	
5-3/4 x 8	8-3/4"	75,000	1,363,283	39,194	55,525	65,324	71,856	76,429	97,986	261,296	
6 x 8	9-1/8"	75,000	1,484,406	44,532	63,087	74,220	81,642	86,838	111,330	296,881	

*** Chart of torque value guidelines for ASTM A193 Grade B7 with stud stress equal to 70% of minimum yield strength.

NOTE: These are guidelines only. Refer to manufacturers specs or Engineering Department.