

BOLT LOAD STAINLESS STEEL (MATERIAL B8M CLASS 2)

40% - 99% YIELD



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BOLT LOADS

TORQUE GUIDE FOR ASTM A193 GRADE B8M Class 2 STUD													
BOLT TENSION BASED ON 40 PERCENT YIELD													
					REQUIRED TORQUE (FtLbs)								
BOLT SIZE DIA. x TPI	HEX NUT ACROSS	STRESS AREA (IN ²)	MIN YIELD STRENGTH	BOLT TENSION	TS801MOLY DRY FILM SPRAY	MOLYBDENUM DISULFIDE	MOLY/LEAD OXIDE/GRAPHITE K=.125	COPPER & GRAPHITE K=.140	NICKEL & GRAPHITE K=.150	API SA2 K=.157	MACHINE OIL K=.200	DRY STEEL K=.440	CUSTOM (INSERT K)
													0.109
3/4 x 10	1-1/4"	0.334	95,000	12,703	87	79	99	111	119	125	159	349	87
7/8 x 9	1-7/16"	0.461	80,000	14,768	117	108	135	151	162	169	215	474	117
1x 8	1-5/8"	0.605	80,000	19,374	176	161	202	226	242	253	323	710	176
1-1/8 x 8	1-13/16"	0.790	65,000	20,541	210	193	241	270	289	302	385	847	210
1-1/4 x 8	2"	0.999	65,000	25,979	295	271	338	379	406	425	541	1,191	295
1-3/8 x 8	2-3/16"	1.233	50,000	24,658	308	283	353	396	424	444	565	1,243	308
1-1/2 x 8	2-3/8"	1.491	50,000	29,822	406	373	466	522	559	585	746	1,640	406

TORQUE GUIDE FOR ASTM A193 GRADE B8M Class 2 STUD													
BOLT TENSION BASED ON 50 PERCENT YIELD													
					REQUIRED TORQUE (FtLbs)								
BOLT SIZE DIA. x TPI	HEX NUT ACROSS	STRESS AREA (IN ²)	MIN YIELD STRENGTH	BOLT TENSION	TS801MOLY DRY FILM SPRAY	MOLYBDENUM DISULFIDE	MOLY/LEAD OXIDE/GRAPHITE K=.125	COPPER & GRAPHITE K=.140	NICKEL & GRAPHITE K=.150	API SA2 K=.157	MACHINE OIL K=.200	DRY STEEL K=.440	CUSTOM (INSERT K)
													0.109
3/4 x 10	1-1/4"	0.334	95,000	15,879	108	99	124	139	149	156	198	437	108
7/8 x 9	1-7/16"	0.461	80,000	18,460	147	135	168	188	202	211	269	592	147
1x 8	1-5/8"	0.605	80,000	24,217	220	202	252	283	303	317	404	888	220
1-1/8 x 8	1-13/16"	0.790	65,000	25,677	262	241	301	337	361	378	481	1,059	262
1-1/4 x 8	2"	0.999	65,000	32,474	369	338	423	474	507	531	677	1,488	369
1-3/8 x 8	2-3/16"	1.233	50,000	30,822	385	353	441	494	530	554	706	1,554	385
1-1/2 x 8	2-3/8"	1.491	50,000	37,277	508	466	582	652	699	732	932	2,050	508

TORQUE GUIDE FOR ASTM A193 GRADE B8M Class 2 STUD													
BOLT TENSION BASED ON 60 PERCENT YIELD													
					REQUIRED TORQUE (FtLbs)								
BOLT SIZE DIA. x TPI	HEX NUT ACROSS	STRESS AREA (IN ²)	MIN YIELD STRENGTH	BOLT TENSION	TS801MOLY DRY FILM SPRAY	MOLYBDENUM DISULFIDE	MOLY/LEAD OXIDE/GRAPHITE K=.125	COPPER & GRAPHITE K=.140	NICKEL & GRAPHITE K=.150	API SA2 K=.157	MACHINE OIL K=.200	DRY STEEL K=.440	CUSTOM (INSERT K)
													0.109
3/4 x 10	1-1/4"	0.334	95,000	19,055	130	119	149	167	179	187	238	524	130
7/8 x 9	1-7/16"	0.461	80,000	22,152	176	162	202	226	242	254	323	711	176
1x 8	1-5/8"	0.605	80,000	29,061	264	242	303	339	363	380	484	1,066	264
1-1/8 x 8	1-13/16"	0.790	65,000	30,812	315	289	361	404	433	454	578	1,271	315
1-1/4 x 8	2"	0.999	65,000	38,969	442	406	507	568	609	637	812	1,786	442
1-3/8 x 8	2-3/16"	1.233	50,000	36,986	462	424	530	593	636	665	848	1,865	462
1-1/2 x 8	2-3/8"	1.491	50,000	44,733	609	559	699	783	839	878	1,118	2,460	609

TORQUE GUIDE FOR ASTM A193 GRADE B8M Class 2 STUD													
BOLT TENSION BASED ON 70 PERCENT YIELD													
					REQUIRED TORQUE (FtLbs)								
BOLT SIZE DIA. x TPI	HEX NUT ACROSS	STRESS AREA (IN ²)	MIN YIELD STRENGTH	BOLT TENSION	TS801MOLY DRY FILM SPRAY	MOLYBDENUM DISULFIDE	MOLY/LEAD OXIDE/GRAPHITE K=.125	COPPER & GRAPHITE K=.140	NICKEL & GRAPHITE K=.150	API SA2 K=.157	MACHINE OIL K=.200	DRY STEEL K=.440	CUSTOM (INSERT K)
													0.109
3/4 x 10	1-1/4"	0.334	95,000	22,230	151	139	174	195	208	218	278	611	151
7/8 x 9	1-7/16"	0.461	80,000	25,844	205	188	236	264	283	296	377	829	205
1x 8	1-5/8"	0.605	80,000	33,904	308	283	353	396	424	444	565	1,243	308
1-1/8 x 8	1-13/16"	0.790	65,000	35,947	367	337	421	472	506	529	674	1,483	367
1-1/4 x 8	2"	0.999	65,000	45,464	516	474	592	663	710	744	947	2,084	516
1-3/8 x 8	2-3/16"	1.233	50,000	43,151	539	494	618	692	742	776	989	2,176	539
1-1/2 x 8	2-3/8"	1.491	50,000	52,188	711	652	815	913	979	1,024	1,305	2,870	711

TORQUE GUIDE FOR ASTM A193 GRADE B8M Class 2 STUD													
BOLT TENSION BASED ON 80 PERCENT YIELD													
REQUIRED TORQUE (FtLbs)													
BOLT SIZE DIA. x TPI	HEX NUT ACROSS	STRESS AREA (IN ²)	MIN YIELD STRENGTH	BOLT TENSION	TS801MOLY DRY FILM SPRAY	MOLYBDENUM DISULFIDE	MOLY/LEAD OXIDE/GRAPHITE K=.125	COPPER & GRAPHITE K=.140	NICKEL & GRAPHITE K=.150	API SA2 K=.157	MACHINE OIL K=.200	DRY STEEL K=.440	CUSTOM (INSERT K)
													0.109
3/4 x 10	1-1/4"	0.334	95,000	25,406	173	159	198	222	238	249	318	699	173
7/8 x 9	1-7/16"	0.461	80,000	29,536	235	215	269	302	323	338	431	948	235
1x 8	1-5/8"	0.605	80,000	38,748	352	323	404	452	484	507	646	1,421	352
1-1/8 x 8	1-13/16"	0.790	65,000	41,083	420	385	481	539	578	605	770	1,695	420
1-1/4 x 8	2"	0.999	65,000	51,958	590	541	677	758	812	850	1,082	2,381	590
1-3/8 x 8	2-3/16"	1.233	50,000	49,315	616	565	706	791	848	887	1,130	2,486	616
1-1/2 x 8	2-3/8"	1.491	50,000	59,643	813	746	932	1,044	1,118	1,171	1,491	3,280	813

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BOLT TENSION BASED ON 90 PERCENT YIELD													
REQUIRED TORQUE (FtLbs)													
BOLT SIZE DIA. x TPI	HEX NUT ACROSS	STRESS AREA (IN ²)	MIN YIELD STRENGTH	BOLT TENSION	TS801MOLY DRY FILM SPRAY	MOLYBDENUM DISULFIDE	MOLY/LEAD OXIDE/GRAPHITE K=.125	COPPER & GRAPHITE K=.140	NICKEL & GRAPHITE K=.150	API SA2 K=.157	MACHINE OIL K=.200	DRY STEEL K=.440	CUSTOM (INSERT K)
													0.109
3/4 x 10	1-1/4"	0.334	95,000	28,582	195	179	223	250	268	280	357	786	195
7/8 x 9	1-7/16"	0.461	80,000	33,228	264	242	303	339	363	380	485	1,066	264
1x 8	1-5/8"	0.605	80,000	43,591	396	363	454	509	545	570	727	1,598	396
1-1/8 x 8	1-13/16"	0.790	65,000	46,218	472	433	542	607	650	680	867	1,906	472
1-1/4 x 8	2"	0.999	65,000	58,453	664	609	761	852	913	956	1,218	2,679	664
1-3/8 x 8	2-3/16"	1.233	50,000	55,479	693	636	795	890	954	998	1,271	2,797	693
1-1/2 x 8	2-3/8"	1.491	50,000	67,099	914	839	1,048	1,174	1,258	1,317	1,677	3,690	914

TORQUE GUIDE FOR ASTM A193 GRADE B8M Class 2 STUD													
BOLT TENSION BASED ON 99 PERCENT YIELD													
REQUIRED TORQUE (FtLbs)													
BOLT SIZE DIA. x TPI	HEX NUT ACROSS	STRESS AREA (IN ²)	MIN YIELD STRENGTH	BOLT TENSION	TS801MOLY DRY FILM SPRAY	MOLYBDENUM DISULFIDE	MOLY/LEAD OXIDE/GRAPHITE K=.125	COPPER & GRAPHITE K=.140	NICKEL & GRAPHITE K=.150	API SA2 K=.157	MACHINE OIL K=.200	DRY STEEL K=.440	CUSTOM (INSERT K)
													0.109
3/4 x 10	1-1/4"	0.334	95,000	31,440	214	197	246	275	295	309	393	865	214
7/8 x 9	1-7/16"	0.461	80,000	36,551	291	267	333	373	400	418	533	1,173	291
1x 8	1-5/8"	0.605	80,000	47,951	436	400	499	559	599	627	799	1,758	436
1-1/8 x 8	1-13/16"	0.790	65,000	50,840	520	477	596	667	715	748	953	2,097	520
1-1/4 x 8	2"	0.999	65,000	64,298	730	670	837	938	1,005	1,052	1,340	2,947	730
1-3/8 x 8	2-3/16"	1.233	50,000	61,027	762	699	874	979	1,049	1,098	1,399	3,077	762
1-1/2 x 8	2-3/8"	1.491	50,000	73,809	1,006	923	1,153	1,292	1,384	1,448	1,845	4,059	1,006

