

TIGHTENING TORQUE REFERENCE CHART FOR SAE AND METRIC BOLTS

NL = Not Lubricated
L = Lubricated
1 lbs ft = 1.356 N·m



HEX KEY INTERCHANGE

SAE

Metric

TIGHTENING TORQUE FOR SAE BOLTS (50% of yield strength S_y) in lbs ft

MATERIAL	UNC	1/4"-20	5/16"-18	3/8"-16	7/8"-14	1 1/2"-12	2"-12	2 1/2"-12	3"-10	3 1/2"-9	4"-8	5"-8	5 1/2"-7	6"-7	6 3/4"-6	8"-5
GRADE 1	NL	4	8	14	22	34	45	68	100	194	291	492	581	762	1012	1512
	L	3	6	10	17	26	37	51	90	145	218	309	436	572	759	1102
GRADE 2	NL	6	12	22	35	54	78	107	191	294	492	581	762	1012	1512	2509
	L	5	9	17	27	40	58	81	143	145	218	309	436	572	759	1102
GRADE 5/8.2	NL	10	20	36	57	87	126	173	308	496	743	1053	1486	1948	2599	3959
	L	7	15	27	43	65	94	130	231	372	557	790	1114	1481	1939	2939
GRADE 8	NL	14	28	50	81	123	177	245	435	700	1050	1488	2100	2752	3654	5554
	L	10	21	38	60	92	133	184	326	525	787	1116	1575	2084	2740	4140

MATERIAL	UNF	1/4"-28	5/16"-24	3/8"-24	7/8"-20	1 1/2"-20	2"-18	2 1/2"-18	3"-16	3 1/2"-14	4"-14	5"-12	5 1/2"-12	6"-12	6 3/4"-10	8"-10
GRADE 1	NL	4	9	16	25	38	55	77	104	214	325	482	644	868	1028	1528
	L	3	7	12	19	29	41	58	101	160	245	347	483	651	854	1254
GRADE 2	NL	7	14	25	39	61	87	122	213	214	326	482	644	868	1028	1528
	L	5	10	19	30	48	69	91	159	160	245	347	483	651	854	1254
GRADE 5/8.2	NL	11	22	40	64	98	140	196	343	547	834	1181	1645	2217	2929	4429
	L	8	17	30	48	74	105	147	257	410	625	886	1234	1663	2182	3282
GRADE 8	NL	16	31	57	90	139	198	277	485	773	1178	1689	2325	3133	4111	6111
	L	12	24	43	68	104	148	208	364	580	884	1251	1744	2350	3083	4583

TIGHTENING TORQUE FOR METRIC BOLTS (50% of yield strength S_y) in lbs ft

MATERIAL	ST. PITCH	M6-1	M8-1.25	M10-1.5	M12-1.75	M14-2	M16-2	M18-2.5	M20-2.5	M22-2.5	M24-3	M27-3	M30-3.5	M33-3.5	M36-4
CLASS 4.6	NL	3	8	16	29	46	71	98	139	199	240	351	477	649	833
	L	3	6	12	21	34	53	74	104	142	180	263	357	486	629
CLASS 8.8	NL	8	22	44	76	122	190	262	370	509	640	896	1271	1730	2221
	L	7	17	33	57	91	142	197	278	378	480	702	953	1297	1666
CLASS 10.9	NL	15	32	64	112	179	279	385	544	739	940	1375	1887	2540	3283
	L	10	24	48	84	134	209	289	408	555	705	1031	1400	1905	2447
CLASS 12.9	NL	16	38	75	131	209	326	451	636	865	1100	1609	2195	2973	3878
	L	12	29	56	98	157	245	338	477	649	825	1207	1639	2230	2893

MATERIAL	FINE PITCH	M6-0.75	M8-1	M10-1	M12-1.25	M14-1.5	M16-1.5	M18-1.5	M20-1.5	M22-1.5	M24-1.5	M27-1.5	M30-1.5	M33-1.5	M36-1.5
CLASS 4.6	NL	4	9	18	31	50	76	110	154	207	273	393	545	733	958
	L	3	7	14	23	37	57	83	116	156	204	295	409	550	719
CLASS 8.8	NL	10	24	49	83	132	202	294	411	553	727	1048	1455	1954	2556
	L	7	18	37	63	99	151	220	308	415	545	799	1091	1466	1917
CLASS 10.9	NL	15	35	72	123	194	296	431	603	813	1068	1539	2136	2870	3754
	L	11	26	54	92	146	222	323	453	610	801	1155	1602	2152	2815
CLASS 12.9	NL	17	41	84	143	227	347	505	708	951	1249	1822	2500	3358	4393
	L	12	31	63	108	170	260	379	530	719	937	1361	1875	2519	3295

5/16" → 8

3/32" → 2.5

7/64" → 3

1/8" → 3.5

5/32" → 4

3/16" → 5

7/32" → 6

1/4" → 7

5/16" → 8

3/8" → 10

Bolt Torque Chart Metric 316

Brendan G. Carr

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

Bolt Torque Chart Metric 316:

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GEARHEADS, 2002 **Drafting Fundamentals** Cecil Howard Jensen, Frederick Harry Sextus Mason, 1982 *Truck and Trailer Systems (PB)* Mike Thomas, 2013-10-22 The most complete visual guide to servicing medium and heavy duty truck

systems Written by an expert with decades of experience as an automotive and diesel technician and instructor Truck and Trailer Systems offers comprehensive information on medium and heavy duty truck service The book begins by discussing the trucking industry professional certifications safety tools and measuring equipment Then each system is thoroughly covered from electrical and lighting to brakes and transmissions Factory procedures from the most common manufacturers for diagnosis and repair are presented along with annotated photos and diagrams This practical authoritative resource is essential for those starting out in the field as well as experienced professionals in need of a detailed on the job reference Chapters include Objectives Notes Cautions Service tips Photos and diagrams Chapter reviews Truck and Trailer Systems covers Industry safety Basic electrical Magnetism Batteries Starting system Charging system Lighting and wiring Computer systems Mobile heating ventilation and air conditioning systems Tires wheels and wheel end systems Frames and suspensions Steering systems Trailers and fifth wheels Hydraulic brake systems Air brake foundation brakes Air brake air systems Antilock brake systems Drive lines Clutches Drive axles Single and twin countershaft manual transmissions Automated manual transmissions Automatic transmissions Allison transmission overhaul PMI Auxiliary power units

Fundamentals of Engineering Drawing Cecil Howard Jensen, Jay D. Helsel, 1979 Thomas Register of American Manufacturers, 2002 This basic source for identification of U S manufacturers is arranged by product in a large multi volume set Includes Products services Company profiles and Catalog file

To Advance the Concept of Aesthetics and Constructability in the Design of Noise Barrier Walls Through the Design of Models, Prototypes, Plans and Specifications of the Bhavnani Design Ed Dauenheimer, 1999

The Engineering Designer, 1978 How Everything Works Louis A. Bloomfield, 2007-08-28 By explaining the physics behind ordinary objects this book unravels the mysteries of how things work Using familiar examples from everyday life and modern technology this book explains the seemingly inexplicable phenomena we encounter all around us As it examines everything from roller coasters to radio musical instruments to makeup and knuckleballs to nuclear weapons How Everything Works provides the answers to such questions as why the sky is blue why metal is a problem in microwave ovens and why some clothes require dry cleaning With fascinating and fun real life examples that provide the answers to scores of questions How Everything Works is nothing short of a user s manual to our everyday world

AID Small Business Circular; Trade Opportunities for American Suppliers United States. Agency for International Development. Office of Small Business, 1963

FRC Technical Abstracts Fasteners Research Council, 1965

NASA-Wide Fastener Technical Interchange Meeting (TIM), 1995

Make No Mistake! C. Martin Hinckley, 2001-09-30 With C Martin Hinckley s new book Make No Mistake An Outcome Based Approach to Mistake Proofing that vision can become a reality If you work for a company that emphasizes traditional quality control methods it s unlikely that you ve seen defects eliminated despite your substantial efforts Make No Mistake clarifies the reasons why such traditional methods fail and shows how world class quality can be achieved at a minimal cost through

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web jul 26 2023 students successful at the zone athletics carnival will compete in the hunter region athletics carnival please refer to note attached for further details date wednesday 26 july 2023 time 8 30 am 3 pm attachment hunter region athletics carnival pdf 71kb location glendale athletics centre belmont high school

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web the b and c division team participated in the west zone netball tournament the m1 schools challenge league carnivals such as the neptops carnival and active carnival as well as friendly matches with other schools as a means to forge camaraderie and cooperation among its members the netball team organises events such as an annual

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