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Tension Relationship For  
Metric Fasteners

# Torque Tension Relationship For Metric Fasteners

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## **Torque Tension Relationship For Metric**

Torque-Tension Relationship for Metric Fasteners Caution: All material included in this chart is advisory only, and its use by anyone is voluntary. In developing this information, Fastenal has made a determined effort to present its contents

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accurately. Extreme caution should be used when using a formula for torque/tension relationships.

## **Torque-Tension Relationship for Metric Fasteners**

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by anyone is voluntary. In developing this information, Fastenal has made a determined effort to Under/over tightening of fasteners can result in costly equipment failure or personal injury.

## **Torque-Tension Relationship for Metric Fasteners Caution ...**



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Table 2 - Torque-Tension Relationships  
for Metric Property Classes: Major  
Diameter and Thread Pitch: Stress Area  
mm<sup>2</sup>: Class 4.6 Clamp Load kN: Class  
4.6 Torque Dry  $k=0.2N\cdot m$

## **Torque Tensioning | Elgin Fasteners**

Torque-Tension Relationship ISO 898-1  
Property Class 4.6, 8.8, 10.9 & 12.9

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Metric Course Thread Caution: All material included in this chart is advisory only, and its use by anyone is voluntary. In developing this information, Fastenal has made a determined effort to present its contents accurately. Extreme caution should be used when using a formula for torque/tension relationships.

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## **Torque-Tension Relationship ISO 898-1 Property Class 4.6 ...**

formula for relating torque to tension.  $T = K \cdot D \cdot P$   
 $T$  = torque, lbf.-in.  $D$  =  
fastener nominal diameter, inches  $P$  =  
preload, lbf.  $K$  = "nut factor," "tightening  
factor," or "k-value" If the preload and  
fastener diameter are selected in the

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design process, and the K-value for the application conditions is known, then the necessary torque can be

## **TIGHTENING TORQUES AND THE TORQUE-TENSION RELATIONSHIP**

Torque values calculated from formula  $T=KDF$ , where Lubricated Clamp Load F based on 75% of Yield Dry Clamp Load F

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based on 40% of Yield to avoid Galling.  $K = 0.16$  for "lubricated" conditions  $K = 0.35$  "dry" Tightening Torque listed in Nm as well as US Customary Units inch-pounds up through M10 and foot-pounds M12 and larger. 266 310 912 1064 1172 1367

## **Torque Values for A2-70 or A4-70**

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## **Metric Stainless Steel ...**

Extreme caution should be used when using a formula for torque/tension relationships. Torque is only an indirect indication of tension. Under/over tightening of fasteners can result in costly equipment failure or personal injury. Rev 3-6-09 Torque-Tension Relationship for A307A, Grade 5, 8 & 9

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Bolts (in.) (sq. in.) (Lbs.) (Lbs.) (Lbs.)  
(Lbs.)

## **Torque-Tension Relationship for A307A, Grade 5, 8 & 9 Bolts**

Norbar has devised easy-to-use online calculators that support the correct application of torque in three key areas: Unit conversion to assist international

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measurement definitions.; Torque extension for setting correct values; Torque tension to identify precise levels of torque to be applied for individual applications.

**Torque Tension Calculator - Norbar**  
Lubricated Bolts and Reduced Torque -  
Lubrication effect on bolt tension and



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torque Metric Bolts - Tightening Torques  
- Typical maximum recommended  
tightening torques for metric bolts  
Metric Steel Bolts - Grades and Property  
Classes - Metric steel bolts, screws and  
studs - proof and tensile strength

## **US Bolts - Tightening Torques - Engineering ToolBox**

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Torque-Tension Relationship Graph  
Determination of the torque-tension relationship for a threaded fastener allowing the appropriate tightening torque to be determined. Such tests will allow the nut factor (sometimes referred to as the torque coefficient or k factor) to be determined, and the overall coefficient of friction.

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## **Torque-Tension Relationship Graph - Bolt Science**

Torque Metric Conversion Calculator.  
Sort By: Name | Popularity. From: To:  
Result: torque conversion factors  
provided by unitconversion.org: Time  
Master II - Time Calculator for Pilots,  
Accounting, Broadcasting; Ultra Measure

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Master - Most Complete, Easy-to-Use  
Metric Conversion Calculator; Measure  
Master Pro - Feet-Inch-Fraction  
Calculator for ...

## **Metric Calculator - Torque Conversions**

There is a method used to estimate the  
torque/tension relationship in an

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assembly. The Torque/Tension Equation;  
 $T = (K D P)/12$  can be used to prescribe  
a torque value that will achieve a certain  
tension or clamp load. T = Torque  
(ft.-lbs.) D = Nominal Diameter (inches)  
P = Desired Clamp Load Tension (lbs.)

## **Determining Torque: The Facts About Required Torque ...**

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Under/over tightening of fasteners can result in costly equipment failure or personal injury. Rev 3-4-09. Torque-Tension Relationship for ASTM A193 B7 Bolts and Studs. Tightening Torque K = 0.12 K = 0.15 K = 0.20 (in.) (lbs.) (lbs.) (lbs.) (lbs) (ft-lbs) (ft-lbs) (ft-lbs) 1/4 20 3978 3341 2016 2506 6 8 10 1/4 28 4547 3819 2441 2864 7 9 12 5/16 18

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6554	5505	3401	4129	13	16	22	5/16	24
7258	6097	3931	4573	14	18	24	3/8	16
9686	8136	5083	6102	23	29	38	3/8	24
10979	9222	6063	6916	26	32	43	7/16	14
...								

## **Torque-Tension Relationship for ASTM A193 B7 Bolts and Studs**

Values calculated using industry

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accepted formula  $T = KDP$  where  $T =$  torque,  $K =$  torque coefficient (dimensionless),  $D =$  nominal diameter (inches),  $P =$  bolt clamp load (lbs).

**Bolt Torque Charts - AFT Fasteners**  
Test for Evaluating the Torque-Tension Relationship on Both External and Internal Metric Threaded Fasteners This



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standard provides a test method for determining the torque-tension relationship on both external and internal threaded fasteners for the purpose of measuring the frictional characteristics of the threaded fasteners.

## **Torque Standards for Fasteners -**

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## **ANSI Webstore**

Keywords: bolt tension, yield stress, the coefficient of friction. Intro to nut torque and bolt threads. The nut torque stated in bolt tension tables is based on lubricating threads with light oil. When another lubricant is used the torque values must be adjusted to get the 65% to 75% yield stress recommended for

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bolted connections.

## **The connection between nut torque and bolt tension**

The relationship between applied torque and the tension created is described by the relationship:  $T = K \times D \times F$  where  $T$  = torque,  $K$  = nut factor, sometimes called the friction factor,  $D$  = bolt...

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## **Understanding the Nut Factor in Threaded-Fastener Torque ...**

Torque is best viewed as a very indirect indication of tension, as many factors can affect this relationship, such as, temperature, tolerance, surface texture, rust, oil, debris, thread series and material type just to name a few. This

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variability can be on the order of +/- 40% or more.

## **Bolt Torque versus Tension - Nishkian**

The torque-tension relationship is very often described with  $T = KFd$  (1) where  $T$  is the final assembly torque,  $K$  is the dimensionless assembly coefficient,  $F$  is

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the final assembly tension, and  $d$  is the nominal diameter of the bolt and nut.

## **Torque-Tension Repeatability of Prevailing Torque Locknuts**

Torque Machines; Pipe Dope / Forumlok;  
Mud Systems. MUD HOG Centrifugal  
Pumps; Fluid End Assemblies; Fluid End  
Accessories; P-Quip System; Mud Gate

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Valves; Drill Pipe Float Valves; Open-Side  
Pipe Vise; Hydraulic Hand Pumps; Well  
Service; Drilling Instrumentation.  
Monitoring Systems; Anchors; Weight  
Indicators; Pressure Gauges; Drift  
Indicator ...

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