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REFERENCE GUIDE - Fastenal Values calculated using industry accepted formula $T = KDP$ where $T =$ Torque, $K =$ torque coefficient (dimensionless), $D =$ nominal diameter (inches), $P =$ bolt clamp load, lb. K values: waxed (e.g. pressure wax as supplied on high strength nuts) = .10, hot dip galvanized = .25, and plain non-plated bolts (as received) = .20. Bolt Torque Chart - Portland Bolt
In addition, a proper bolt torque value can be inconsistent from fastener-to-fastener due to several factors including variations in material, coatings, surface finishes, fit

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 These formulae may be used for bolts outside the range of the tables overleaf. A GUIDE TO TORQUE VALUES - Norbar Table V -- Bolt Torque [No lubrication on threads. Torque values are based on friction coefficients of 0.12 between threads and 0.14 between nut and washer or head and washer, as manufactured (no special cleaning).] Size Root area, in. 2 Torque range (class 8, 150 ksi, bolts (Note 1)) 10-24: 0.0145: 23 to 34 in.-lb: 10-32: 0.0175: 29 to 43 in ...Fastener Torque | Engineering Library Torque bolts and nuts in a "CRISS-CROSS" sequence using a minimum of three torquing passes and the maximum bolt stress as defined. PASS 1 Torque Sequence: Torque to a maximum of 30% of the final torque value in accordance with the

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