



# Data Intelligence Statistics

**D Keegan**



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web jan 1 2017 the tightening sequence is generally following a star pattern or similar circular patterns if present are only used for the latest passes which ensures a better alignment of matching flanges and avoids local overloads in the gasket and rigid body motion in the joint bickford 1995

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web bolt torque is calculated for a flanged assembly using the following equation applied torque  $t_k f d^{12}$  in fps unit where  $t$  torque in ft lb  $k$  dimensionless nut factor or tightening factor  $f$  axial force in pounds  $d$  nominal bolt diameter in inches in the metric system torque applied  $t_k d f 1000$  where  $t$  torque in n m  $f$  bolt load in n

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web easy handling bolt numbering shall be done clockwise around the flange with the following sequence the table below shows the torque sequence for flanges with 4 to 32 bolts number of bolt studbolt tightening sequence to follow 4 bolt flange 1 3 2 4 8 bolt flange 1 5 3 7 2 6 4 8 12 bolt flange 1 7 4 10 2 8 5 11 3 9 6 12 16 bolt

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web for flanges with 12 or more bolts 1 st round 20 percent of final torque 2 nd round 40 percent of final torque 3 rd round 80 percent of final torque 4 th round 100 percent of final torque final round clockwise or counter clockwise around the flange please take note the above bolt tightening sequences are the most

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web jan 27 2021 the gasket type and arrangement of the flange connection are both critical to choosing which tightening sequence an assembler can use this article which is intended for supervisors engineers or anyone else who oversees bolted flange assembly or maintenance will discuss different torque sequences

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web number of bolt stud bolt tightening sequence to follow 4 bolt flange 1 3 2 4 8 bolt flange 1 5 3 7 2 6 4 8 12 bolt flange 1 7 4 10 2 8 5 11 3 9 6 12 16 bolt flange 1 9 5 13 3 11 7 15 2 10 6 14 4 12 8 16 20 bolt flange 1 11 6 16 3 13 8 18 5 15 10 20 2 12 7 17 4 14 9 19 24 bolt flange

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web ensure the bolt lengths allow for a minimum of 2 3 threads protruding beyond the top of the nut when tightened bolts must be tightened according to the below sequence options assemble bolts hand tight maximum 30 of final tightening torque as per below cross pattern sequences

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web step 1 liberally lubricate all load bearing surfaces including threads and flat washers then install and finger tighten all fasteners number the bolts flange according to the bolt torque sequence step 2 set the torque wrench to 1 3 of the target torque value and tighten in an order bolts 1 2 3 4 until all have been tightened

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web tightening sequence the first pass lightly tighten the first bolt then move directly across or 180 degrees for the second bolt then move 1 4 turn around the circle or 90 degrees for the third bolt and directly across for the fourth continue this sequence until all bolts are tightened when tightening a four bolt flange use a criss cross

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web jan 10 2016 twelve bolt tightening sequence sequential order 1 2 3 4 5 6 7 8 9 10 11 12 rotation order 1 5 9 3 7 11 2 6 10 4 8 12 sixteen bolt tightening sequence sequential order 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 rotation order 1 9 5 13 3 11 7 15 2 10 6 14 4 12 8 16 twenty bolt tightening sequence

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kerosene t 1380 k p 10 atm

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web a the vapor pressure curve of water intersects the p 1000 mmhg line at about 110 c this is therefore the boiling point of water at 1000 mmhg b the vertical line corresponding to 250 c intersects the vapor pressure curve of mercury at p 75 mmhg hence this is the pressure required for mercury to boil at 250 c

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web jan 4 2021 vapor pressure 5 mmhg at 100 f flash point 100 162 f vapor density 4 5 specific gravity 0 81 ionization potential lower explosive limit lel 0 7 upper explosive limit uel 5 nfpa health rating

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web allow the gaseous phase thermodynamics to be curve fitted to 300k about 142k lower than the normal boiling point 542k 2 of kerosene nevertheless in actual calculations involving liquid kerosene fuel the heat capacity and latent heat of vaporization of liquid kerosene 12 are used for

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web as a general trend vapor pressures of liquids at ambient temperatures increase with decreasing boiling points this is illustrated in the vapor pressure chart see right that shows graphs of the vapor pressures versus temperatures for a variety of liquids

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pressure vapor or saturation pressure depends on temperature

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