

Mechanics Of Materials Ferdinand P Beer

N Noddings

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 control method tightening more than
 one bolt at time eradicates the bolt
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 is relatively high flange joint s
 performance is compared to establish
 relative merits and demerits of both the
 methods and different bolt tightening
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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
 follow4 bolt flange1 3 2 48 bolt flange1
 5 3 7 2 6 4 812 bolt flange1 7 4 10 2 8 5
 11 3 9 6 1216 bolt

bolt tightening sequence

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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
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 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
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 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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for standard asme b16 5 and api 6a flanges under normal assembly conditions

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