

Connector box diagonal tightening sequence



Overview

Tighten bolts in a star or criss-cross sequence to ensure even pressure distribution around the flange. Always start with a bolt and move across the bolt circle to tighten the next bolt. Such an effect is called elastic interaction, or alternatively. Tightening Sequence: Bolts are tightened in a specific order to avoid localized over-tightening or loosening, with common sequences including staggered or diagonal patterns.



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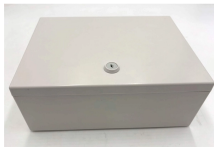
(a) Tighten nuts twice in a criss-cross pattern using a torque wrench. The first time nut is torqued, apply approximately 75 percent of the final torque value. (b) Repeat the sequence a second time until 100 ...



Based on experience, if the bolts are in a circular pattern, a criss-cross tightening sequence would normally be specified. For non-circular bolt patterns, a spiral sequence starting at the middle would ...



For proper ANSI flange bolt tightening, follow a sequential “star” or criss-cross pattern, tightening bolts in stages to ensure even gasket compression and a secure, leak-free connection.



With such a sequence, each bolt is tightened more than once to help reduce the preload reduction caused by tightening the other bolts in the joint. Tests have shown that the elastic ...



Two classical examples of tightening sequences are shown below, one for a rectangular array of bolts and the other, a circular array. Such sequences have been shown to result in providing a reasonably ...



The different steps required to perform a correct tightening of the joint based on ASME PCC-1 are indicated below. We have selected this standard instead of the European norm to develop this ...



pattern tightening sequence for the number of bolts below. Starting at the #1 bolt, use the appropriate cross-pattern tightening sequence for Rounds 1, 2, and 3 (each sequence constitutes a "Round").



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Diagonal Pattern: Bolts are tightened diagonally, starting from one bolt and moving diagonally to the opposite side. This pattern effectively maintains even pressure on the flange.



Following the "diagonal-symmetry" rule, tighten the remaining bolts outward from the middle. Bolts on the same diagonal apply forces in opposite directions, cancelling stresses and preventing housing ...



The numbers do not have to be followed exactly; however, the diagonal tightening patterns should be followed. By using proper torque and the illustrated sequence patterns, sealing problems from ...

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