

BOLT TORQUING

CONTENTS

- What is torque?
- Why it is preferred for bolt tightening?
- Bolt torque for flange joint assembly
- Stress-strain curve
- Forces on a bolted flange
- K Factor-Importance of lubricant
- Factors affecting torque values
- How much Bolt Load should you apply?
- Bolt Torque calculation
- Manual torque wrench
- Hydraulic torque wrench and it's components
- Hydraulic Bolt Tensioning
- Hydraulic bolt tensioner
- What is gasket?
- How does gasket prevent leakage?
- Gasket specification
- Types of gaskets
- Should we apply grease on a RTJ gasket?
- Chemical resistance chart
- Installation of gasket
- Alignment of flanges
- Consequences of gasket failure
- Gasket installation
- Bolt tightening sequence
- Things to avoid while installing gasket
- Why studs are preferred over bolt in flanged joints?
- Latest development in bolt torquing

DURATION: 1 day (4 hrs)

PARTICIPANTS: Engineers/Technicians who will be involved in the use of hand, hydraulic torque and tensioning equipment.

MIN PARTICIPATION: 6 delegates