



# METAL EXPANSION JOINTS POST INSTALLATION CHECKLIST

## guidance for installers

- Anchors, guides and supports are installed in accordance with the system drawings
- Expansion joint is installed in the correct location
- There is enough space between external cover (if any) and bellows OD
- All shipping bars, pre-tensioning devices, protective parts and packaging materials have been removed (components such as tie rods, hinge links and gimbals must not be removed. They form part of the integrity and functionality of the expansion joint)
- All guides, pipe supports and expansion joint are free to permit pipe movement
- Water has been removed from bellows convolutions (if system has been tested with water)
- Expansion joint has not been damaged during handling and installation (visual control)
- Expansion joint is not misaligned
- There is enough free space for the bellows and other movable parts to perform design movements
- Pre-set conditions (if any) have been considered during installation
- Limit rod, nuts are set as per actual movements of the system
- There is no unanticipated movement on the piping due to pressure
- The expansion joint is free from foreign objects such as dirt or debris
- Anchors are adequate to accept reaction forces from the expansion joint and all other pipework loads
- Tie rods on lateral expansion joints are correctly fitted and are secure
- When fitting angular expansion joint the hinge pins are in the correct orientation
- Expansion joint with liner connection is positioned through flow direction
- There is no damage on bellows such as dents, gouges, weld splatter



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