

## Externally Pressurized Expansion Joints

### Installation Instructions:

Piping should be lined up accurately before installing the expansion Joint. Angular, lateral, and axial misalignment, and / or torque, will cause shearing stresses, so the system must be piped to **eliminate misalignment**.

Check to be sure that the face to face opening in the piping is the proper dimension for the expansion joint. It is important that the **expansion joint fit correctly** in the piping.

Don't let the expansion joint support any weight except its own. System piping **must be properly supported** and hung. Since the expansion joint is flexible, any extra weight will stress it.

**Never install an expansion joint** where its temperature or pressure ratings could be exceeded. Be sure you know the ratings of the expansion joint and of the system.

If you are welding the expansion joint into the pipeline, or if you are welding near or above the expansion joint, cover it with a **heat resistant protector** to prevent arc strikes, weld spatter, etc. from damaging the joint.

If the joint is installed vertically, be sure to **install the joint with the traveling pipe stub up** (at the top), to allow the joint to drain, preventing liquid and sediment from accumulating between the housing and the bellows.

When the expansion joint is used to absorb rated thermal expansion and contraction motion in a piping system, the adjacent piping **must be properly anchored and guided**. Refer to the anchor and guiding instructions following these expansion joint installation instructions.

### Notes:

**After installation, but before system pressurization**, remove all the shipping restraints and be sure all hangers, guides, and anchors are installed and functioning. The piping system must be restrained so that the movement will not exceed the axial movement rating of the expansion joint

Don't hydro-test the system at **pressures greater than the rated test pressure** of the expansion joint, the piping components or the anchor load design.