

## **INSTALLATION INSTRUCTIONS HYSpan SERIES 1500 and 2500 SINGLE OR DUAL CENTER ANCHOR BASE EXPANSION JOINTS**

### **APPLICATION**

Single Expansion Joints are designed for applications where the principal movement is axial, and alignment must be maintained by proper anchoring and guiding. The amount of lateral movement is limited and becomes severely restricted as the ratio of length to diameter increases. If there is any doubt about correct application, please review the Hyspan product catalog, Hyspan bulletin 1213 or paragraph 3.4.1 of the EJMA Standard.

### **INSTALLATION**

**Operating Conditions** must be within the limits specified on the nameplate. All joints are factory tested to 1.5 times the design pressure – system tests shall not exceed this pressure.

**Shipping Restraints** have been welded into place at the factory to insure installation at the correct length and alignment. Whenever possible, leave these restraints in place during installation; however, they must be removed before operating the system. **CAUTION:** Provide protection of the bellows corrugations during removal – cutting or grinding sparks can damage the bellows.

**Flow Liners or Sleeves** that extend through the bore of the joint are included in some units. A stamp indicating the flow direction is on the external surface. The joint must be installed as directed. If there is any possibility of reversed flow or entrapment of solids, consult the design engineer or the Hyspan representative.

**Tie Rods or Control Rods** are included on some joints to (1) limit overtravel, (2) absorb the pressure thrust in the event of a main anchor failure, or (3) to absorb the pressure thrust for systems designed for lateral motion where no anchors are provided. These rods are factory preset. The system design should be carefully reviewed for correct use of these rods. They can restrict travel if used incorrectly.

**CAUTION:** This type of Expansion Joint is not designed for reacting torque or absorbing torsional movements (in a plane perpendicular to the centerline). Be certain these conditions do not exist due to system design or installation misalignment.

### **POST INSTALLATION INSPECTION**

The Piping System should be inspected for the following conditions:

- 1) Are anchors, guides and supports installed in accordance with the system design?
- 2) Is the expansion joint installed in the correct location?
- 3) Is the expansion joint installed with the correct flow direction?
- 4) Have all expansion joints shipping restraints been removed?
- 5) Are all guides, supports and expansion joints free to permit the movement required?
- 6) Has the expansion joint been damaged during handling or installation?
- 7) Is the expansion joint misaligned? Is the overall length correct, and are all clearances satisfactory for sufficient movement?