

Expansion Joints & Flexible Connectors

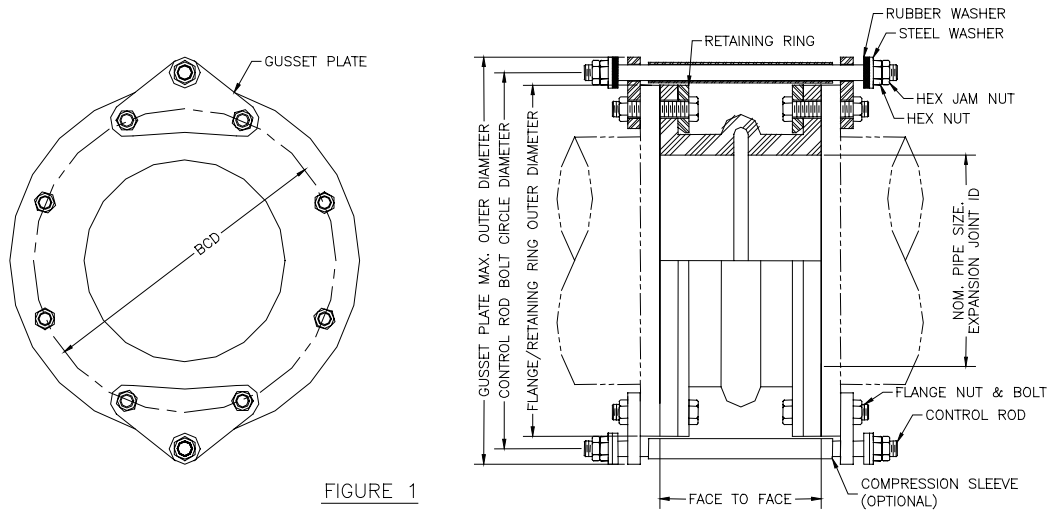
EXPANSION JOINT INSTALLATION GUIDE

1. Ensure that piping is securely anchored and supported; ***otherwise control units must be installed on the pipe flanges.***
2. Remove all burrs or sharp edges from the pipe flange faces and wipe clean of oil, grease, etc.
3. Measure lengths accurately, then install connector in exact normal length, avoiding compression or elongation (except for precompressed joints.) Install in a relatively straight line. Make sure that mating flanges standard steel flat faced, or no more than 1/16" raised face type. Do not use gaskets.
4. Apply a thin coat of graphite dispersed in glycerin or water to pipe flange faces. This will facilitate installation and allow for easy removal at a later date.
5. Slip rubber joint between flanges, position one section of retaining rings (with beveled inside dia. against rubber) and push two (2) bolts through to ensure alignment. Repeat with remaining sections, and assemble nuts to finger snugness, using washers at the split holes on the retaining rings.
6. Do not bolt directly to another component with an elastomer face or to a specialty flange, such as Victaulic type, without inserting a solid full-face metallic ring (gasket.)
7. Use two wrenches to prevent torque when installing connector, tighten bolts in equal steps using a proper tightening pattern until rubber flange bulges slightly between retaining ring and adjoining pipe flange. Check bolt tightness several days after initial operation and periodically thereafter, particularly in a hot and cold water system before change from one medium to the other. Washers must be used at the split points in the retaining rings
8. If bolt threads are facing the joint, trim the length of the bolts, so that they do not extend past the nut for more than 1/8" to avoid contact with the joint.
9. Self-curing rubber compound should be used on any significant cuts, gouges, etc. caused by shipping, handling, or installation. Contact factory to order.
10. Check temperature and pressure ratings. Do not exceed that shown on the nameplate.
11. Do not weld near connector, and do not paint or insulate the joints without consulting the factory.
12. **IMPORTANT:** On lines not properly anchored or supported, or on systems where wide temperature fluctuations occur, control units **must** be used.

Control Unit Assembly Instructions

INSTALLATION

1. Once the expansion joint is properly aligned and secured (see E.V.R. Expansion Joint Installation Guide), the control units can be installed.
2. The control unit assembly is shipped complete with control rod plates (gusset plates) installed on the tie rods. See Figure 1.



MAXIMUM ELONGATION & COMPRESSION

For setting the total elongation and compression, refer to Figure 2.

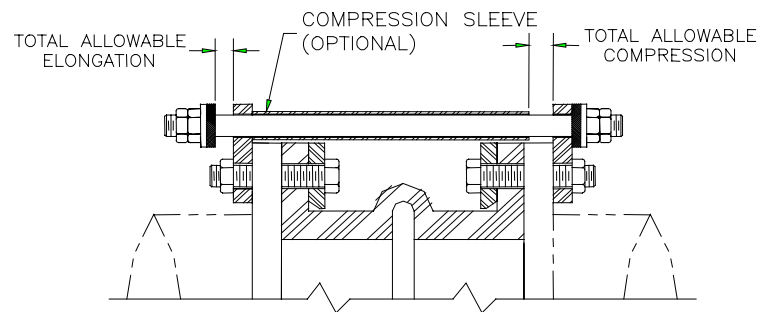


FIGURE 2

On any equipment which is subjected to continuous or occasional vibration, the hardware must be inspected regularly for fitness.