Garlock
an EnPro Industries family of companies

Expansion Joint Accessories

METAL RETAINING RINGS

» Retaining rings are required for all expansion joint installations. The metal surface of the ring equally distributes the bolting pressure, preventing flange damage during bolt tightening.

» Rings should be installed against the expansion joint's external flange.

» Standard material of construction is mild steel with a corrosion-resistance coating; galvanized and stainless steel options available upon request.

CONTROL UNITS

» Control units are recommended for most applications to prevent damage to the expansion joint from excessive pipe movement.

» A control unit assembly consists of two or more tie rods connected between pipe flanges.

» Triangular end plates (gussets) come complete with two holes for secure bolting to the flange and one hole to accommodate the connecting tie rod.

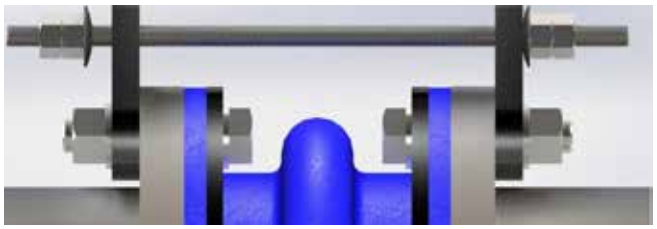
» Spherical washers are incorporated to accommodate moderate piping misalignment and to assist with angular, torsional, and lateral movements.

» Each rod incorporates double nuts on each end to prevent over-elongation of the expansion joint.

» When excessive axial compression is a concern, compression nuts can be incorporated to prevent damage as a result of over-compression.

» Please note, control units are NOT intended as a replacement for adequate pipeline anchoring.

TYPICAL CONTROL UNIT FOR RUBBER EXPANSION JOINT



METAL FLOW LINERS

» A metallic flow liner can extend service life by protecting the expansion joint from abrasive materials or solids, particularly in high-velocity applications.

» Flanged at one end, flow liners are installed with the flange at the head of the media flow. They are designed with a 5 degree taper to allow for lateral movement.

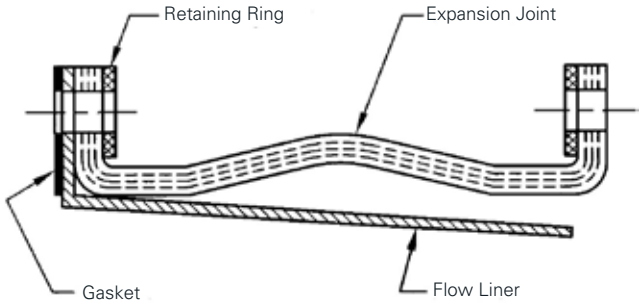
» Liner flange thickness:10 gauge
Liner body thickness: 12 gauge

» Recommended for Flow Rates: 8 fps

» Available in 304/316 stainless steel; also, titanium, Hastelloy C, and other materials upon request

» Special configurations available for reducing and multi-arch designs. Please contact Garlock for additional information.

METAL FLOW LINER INSTALLATION



FIRE RESISTANT COVERS

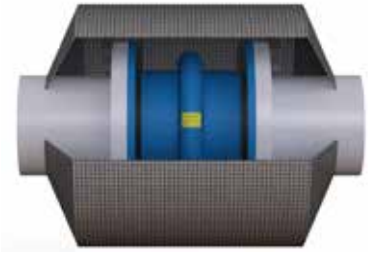
Recommended on applications where flammable liquids are being used or in fire water systems.

» Constructed from several layers of fiberglass fabric with a surface layer of silver-covered, high-temperature resistant silicone aluminum-glass fabric.

» Tested to ISO 15540 at 1472°F (800˚C) for 30 minutes for fire resistance

» Provided as a split design to allow for easy installation and inspection.

» The cover is oil-resistant, providing added protection against weather and aging of the expansion joint.



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