

Safety notes

Safe installation, operation and maintenance procedures must be established for this equipment based on the procedures of the site and environment in which it operates. These procedures must be in place before installation, operation and maintenance occurs.

Prior to starting any procedure check health and safety requirements with the person responsible for the area and ensure all required precautions, PPE and permissions are in place.

The following list of potential risks is not exhaustive; all those working with the equipment must take the necessary steps and advice to ensure safety:

- Pressurised equipment
- Hazardous fluids
- High temperatures
- Unrestrained piping and equipment
- Handling and lifting

Resolve pipe misalignment and flange hole orientation before installation.

These expansion joints are untied and will exert a pressure force on the piping and equipment they are connected to.

Inspect the entire system to insure that anchors, guides and pipe supports are installed in strict accordance with piping system drawings.

Anchors must be designed for the test pressure thrust loads.

Expansion joints exert a force equal to the test pressure times the effective area of the bellows during hydro test. Hydrostatic test pressure should not exceed 1.5 times the rated working pressure unless the expansion joint was specifically designed for this test pressure.

Cleaning agents, soaps and solvents may contain chlorides, caustics, or sulfides and can cause stress corrosion which appears only after a bellows is put into service. Wire brushes, steel wool and other abrasives should not be used on the bellows element.

Some types of insulation leach chlorides when wet. Only chloride free insulation materials should be used for insulating an expansion joint.

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HVAC Metal Bellows

Installation: Copper Ended

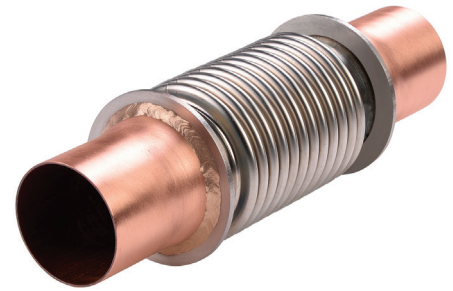
Take care when installing the bellow to ensure no torsion (end to end twist) is applied.

The unit is supplied at full length for axial compression only, no cold pull to be applied. The bellows can be installed in any flow direction.

These expansion joints require the pipe work to be suitably anchored and guided for correct operation.

Take care when soldering or brazing to ensure no soldering flux comes into contact with the bellow convolutions. Doing so could cause a corrosive chemical reaction and premature failure.

Do not use this bellows to correct for misalignment of piping.



Copper Ended

Installation: Union Ended

Take care when installing the bellow to ensure no torsion (end to end twist) is applied.

The unit is supplied at full length for axial compression only, no cold pull to be applied. The bellows can be installed in any flow direction.

These expansion joints require the pipe work to be suitably anchored and guided for correct operation.

Do not use this bellows to correct for misalignment of piping.



Union Ended

Installation: Flanged

Take care when installing the bellow to ensure no torsion (end to end twist) is applied. The bolt holes must be fully aligned with mating pipe work flanges at both ends so that torsion is not introduced.

The unit is supplied at nominal length for axial extension and compression, cold pull may be applied.

The flange bolts must not come into contact with the bellows convolutions when installed. Take care not to cause damage to the bellow convolutions when tightening the bolts.

The bellow is supplied with an internal flow liner so the expansion joint must be installed in the correct orientation for the direction of flow.

These expansion joints require the pipe work to be suitably anchored and guided for correct operation.

Do not use bellows to correct for misalignment of piping.



Flanged

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