



Unit 1, Heol Cropin, Dafen Park, Llanelli,  
Carmarthenshire, SA14 8QW, United Kingdom

Tel: +44 (0)1554 744500

Fax: +44 (0)1554 746435

[www.tes.uk.com](http://www.tes.uk.com)

**TEDDINGTON ENGINEERED SOLUTIONS LTD.**



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## **Rubber Expansion Joint Installation Procedures**

### Installation of Rubber Expansion Joints - Some Important Points

#### Alignment

Measure the face to face distance of the location where Rubber Expansion Joints are to be installed and check misalignment of the pipe flange i.e. Lateral & Angular. If the Rubber Expansion Joints are to be installed with initial misalignment, compression or elongation then these values will reduce the allowable movements of the Rubber Expansion Joints during system operation.

The systems misalignment should not exceed 1/8". If the system cannot be aligned to within 1/8" offset expansion joint should be used.

#### Anchoring

Before assembling Rubber Expansion Joints, pipe anchors and flange supports are to be done to take care of end thrust etc. Pipe weight should not be allowed to act on the Rubber Expansion Joints.

#### Control Units

Always use Control Units to avoid excessive movements of the expansion joints. See enclosed drawings for fitment purpose.

#### Mating Flanges

Be sure that the mating flanges are clean before assembling with the Rubber Expansion Joints.

#### Bolting

Always use correct size bolt to avoid leakages in bolt holes. Washers must be used over splits in the retaining rings. Tighten bolts alternatively around the joint until all nuts are tight and the rubber flanges bulge slightly. Check the bolt tightness at least once in a month and periodically thereafter.

#### Improper Installation

Rubber Expansion Joints are to be installed properly without exceeding the movement capabilities. Improper installations of Rubber Expansion Joints reduce the normal expected life of a Rubber Expansion Joint.

Do not insulate over Rubber Expansion Joint. However, if insulation is required, it should be made removable to permit easy access to the flanges.

Rubber Expansion Joints should not be installed in inaccessible areas where inspection is impossible.

While assembling Rubber Expansion Joints with metal flanges, tighten bolts only enough to achieve a seal and never tighten to the point that there is metal to metal contact between the joint flange and the mating flange.



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## Maintenance

- Periodically re-torque bolts.
- Periodically inspect the expansion joint to confirm satisfactory installation and operation.
- When welding near the expansion joint, use protective device to prevent damage.

## Storage

- A minimum of five year shelf-life may be expected with ideal conditions.
- Store in a cool, dry area.
- Store flange face down evenly supported on a wooden platform.
- For outdoor storage, use a wooden platform of suitable height and cover the expansion joint with tarpaulin.
- Protect the flange faces and tube from nicks, cuts, dents, etc.
- Do not store near devices which produce ozone.
- Do not expose to greases, oils or solvents in liquid or vapour form.
- Do not place other heavy items on top of an expansion joint.
- Following extended storage, carefully inspect the expansion joint for damage.



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