

WHY USE KURBO FABRIC EXPANSION JOINT?



What is Kurbo Fabric Expansion Joint?

Kurbo fabric expansion joints are designed to provide stress relief in ducting systems by absorbing movement caused by thermal changes. They also act as vibration isolators, shock absorbers and make up for minor misalignments of adjoining ducting or equipment. They are fabricated from a wide variety of non-metallic materials, including synthetic elastomers, fabrics, insulation materials and fluoroplastics, depending on the designs.

Industry Application

Kurbo fabric expansion joints with the competitive advantage mentioned above against metallic expansion joints are widely used in many industries which convey gases such as following application/system

Application

- Power Generations
- Pulp and Paper Plants
- Foundries
- Cement Plants
- Food Processing and many others
- Refineries
- Steel Mill
- Smelters
- Incinerators

System

- Gas turbine exhausts
- Heat recovery
- Stack hot air
- Scrubber
- Air pollution and fume control
- Exhaust gas and air
- Precipitator
- Flue gas duct
- Baghouse
- Low pressure process gas and air



Features

• Large Movements:

Kurbo fabric expansion joints offer multi-plane movement in a shorter face to face dimension. The ability to accommodate axial, lateral, torsional and angular movements concurrently is an inherent capability of Kurbo fabric expansion joints designs

• Low Loads:

The spring rates generated by the movements or required to move the expansion joints are very low.

• Corrosion Resistance :

Kurbo fabric expansion joint's use of the wide variety of elastomers, fabrics and fluoroplastics allows the selection of the correct materials for each application. The superior corrosion resistance of flexible rubbers and fluoroplastics can extend the life of the expansion joint

• Sound and Vibration Elimination:

The outstanding vibration and sound attenuation characteristics of elastomers help prevent premature system degradation.



- **High Temperature:**

With the use of special materials, Kurbo fabric expansion joints can withstand over 1000°C operating temperatures

- **No Gaskets Required:**

Since most installations are either welded into place or use integral rubber flanges, the use of gaskets may not be required (For those installations utilizing metal flanges bolted into place, gaskets will be required.).



Benefits

- **Lower System Design Costs:**

Since Kurbo fabric expansion joints can accommodate all of the types of movements concurrently, the resultant system cost can be reduced as follows:

- The number of total expansion joints may be reduced to take advantage of the large, multi-plane movements.
- The same movements can be derived in shorter face-to-face dimensions than metal expansion joints.
- The system geometry can be simplified.
- The use of costly toggles, hangers, support structures and guides can be extensively reduced.
- The engineering time required to design the system is significantly reduced.

- **Low Material Costs:**

The use of high alloy metals may not be required to meet the corrosion resistance required by the application. The variety of elastomers and plastics available will allow the selection of the precise, least expensive material.

- **Lower Shipping and Installation Costs:**

Kurbo fabric expansion joint can be factory pre-assembled and shipped to the jobsite for ease of installation. They are relatively light weight and can be hoisted into place with a minimum of field assembly required.

- **Lower Replacement Cost:**

Changing Kurbo fabric expansion joints can be done with a minimum of downtime. The expansion joint can be provided either factory spliced or open ended for field splicing.

