



**THERMAL PRODUCTS INC.**  
Engineered Solutions To Industrial Applications

# Fabric Expansion Joints

*Flexibility & Quality for the Global Market*

Fabric expansion joints are often used in ducts which carry hot gases at low pressures and will normally accommodate large movements over relatively short installation lengths. Their use in large ducting systems in place of metallic units reduces cost and weight, and allows for a fast, simple replacement.



ISO 9001:2008 Certified  
P/N: 501002



ASME Stamp Holder



Member



Member



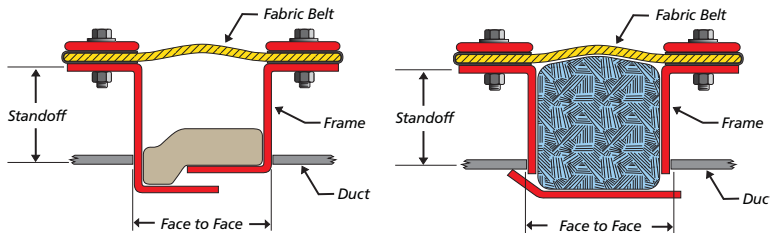
Member

## Our Product

Flexider Fabric Expansion joints are Customized Engineered Expansion Joints. Designed and built as per customer specification and requirements and can be Circular or Rectangular. Designed for applications up to 1600°C and for pressure up to 3 psi.

## Applications

- Fossil Fired Power Plants
- Pulp and Paper Plants
- Cement Plants
- Refineries
- Chemical Plants



## Materials

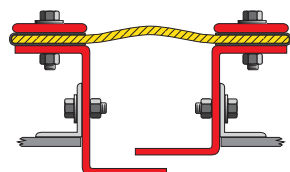
Fabric belt material selection is a critical factor in the successful design of each expansion joint. A number of materials are widely accepted for use in fabric expansion joints, and are selected based on their elasticity, thermal strength and chemical resistance. These materials fall into two general families:

- Fluoroplastics (PTFE) – The chemical resistance of this material is unequaled.
- Elastomers – A general name for the group of synthetic “rubber” materials that are characterized by their elastic property. These materials are also known by their commercial names as FKM, EPDM, and Chlorobutyl.

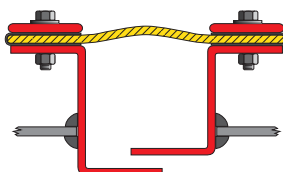
## Installation Type

Expansion joints can either bolt or weld directly to the duct or duct flanges.

- Framed EJs that weld-in are less expensive to manufacture than framed bolt-in designs.
- Weld-in designs reduce potential problems in field fit-up.
- Weld-in designs, when factory integrated into purchased ducting, reduce installation costs.
- U-shaped designs are an alternative to framed EJs, but should be used in limited applications.



*Bolt-in Design*



*Weld-in Design*



*Bolt-in U-Shape Design*

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