

EXPANSION JOINTS

Fabric, Metal, & Rubber Expansion Joints

Regardless of material type, expansion joints are essential components in piping and duct systems, designed to accommodate movement caused by thermal expansion, contraction, vibration, and other dynamic forces. Without these joints, rigid piping and ductwork could experience excessive stress, leading to cracks, leaks, tearing, and even mechanical failure. Expansion joints help mitigate these risks by absorbing movement and reducing strain on the system.

Fabric Expansion Joints

These type are commonly used in duct systems to absorb thermal growth and mechanical shock while isolating vibrations. While being cost-effective, these joints can withstand extreme temperatures and can be manufactured using materials resistant to chemicals, ensuring durability.

Metal Bellows Expansion Joints

Metal type expansion joints are constructed from corrosion-resistant metals like stainless steel or Inconel, allowing them to withstand extreme temperatures and pressures. These joints accommodate dimensional changes due to temperature fluctuations, preventing structural damage. Metal joints can be customized to specific applications and designed to manage axial, lateral, and angular movements, ensuring flexibility in complex piping systems.

Rubber Expansion Joints

Rubber joints are flexible, lightweight, and highly durable, making them ideal for absorbing vibrations and compensating for misalignments. Rubber joints are resistant to corrosion and abrasion, making them suitable for harsh environments. They also help accommodate shifts or misaligned piping, preventing leaks and failures.

Expansion Joint Selection

The selection of an expansion joint depends on various factors, including the operating temperature, pressure, and the type of media or gas being transported. Comprised of experienced and professional engineers, specialists, technicians, and managers, our team has over 30 years experience with fabrication, installation, and inspections of your expansion joints. Let us help you ensure long service life and reliability of your expansion joints.



Expansion Joints for Power Generation:

- Combustion Turbine Exhaust (All Turbine Types)
- GE 7F Flex Seal Upgrades
- HRSG Penetration Seals
- HRSG Inlet & Duct Work Expansion Joints
- Stack Inlet Expansion Joints
- Custom Designs
- Installation, Repair & Inspection Services

