

Flex Hose USA

Expansion Joints

~Please email us the information for questions 1-5 below~

Info on American Made custom fabricated Expansion Joints

Metal expansion joints are being successfully utilized in refineries, chemical plants, fossil and nuclear power systems, heating and cooling systems, and cryogenic plants. Service conditions have ranged from pressures of 25 microns to 1,000 PSIG and -420°F to +1800°F. These types of expansion joints are a highly engineered product and can perform their intended function safely and reliably.

Unlike most commonly used piping components, bellows are constructed of a relatively thin gauge material in order to provide the flexibility needed to absorb mechanical and thermal movement expected in service.

For selection of the proper metal expansion joint, the following steps should be

followed:

1. Select applicable Pipe Size
2. Select applicable Pressure Range.
3. Determine type and amount of movement to be absorbed.
4. Select bellows (single or dual and number of convolutions) to satisfy deflection requirements.
5. Determine end fittings and hardware required.

Warning: Expansion joints may operate in pipelines or equipment carrying fluids and/or gases at elevated temperatures and pressures. Precaution should be taken to insure proper installation and regular inspection. Care is required to protect personnel in the event of leakage or splash.

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