







CENTRAL HEATING SYSTEM PIPE EXPANSION JOINTS







FABRIC EXPANSION JOINTS



pressure

17



elimination

temperature

































METAL HOSES







STANDARD EXPANSION JOINTS

Please contact us for non-standard expansion joints





manufacture

We can manufacture bellows from various materials such as 304, 316, 321, 309S, 310S, 904L, duplex 2205, duplex 2507, alloy 625 and other nickel alloys.

quality

Politeknik is fully committed to a quality management process with quality as a fundamental business principle. Core of the process is achieving customer satisfaction by meeting our internal and customer requirements on time.

design

Designing for a wide range of parameters allows product solutions to be developed both quickly and effectively.

We are

With over 40 years of experience in the design and manufacturing of expansion joints, we are proud of producing qualified, fast and economical solutions with our powerful engineering group which utilizes modern technologies.

In 2016, Politeknik became part of Klinger Group.

KLINGER was founded in 1886 as a family business and is known as a pioneer in sealing technology. Serving a global client base, it delivers trusted products worldwide for petro-chemical, chemical, process industries, infrastructure, and transportation applications. Today, the Group comprises of 40 companies and more than 60 manufacturing, distribution and service hubs worldwide.





Expansion Joints

Expansion joint is a device containing one or more flexible element used to absorb dimensional changes such as those caused by thermal expansion or contraction of a pipeline, duct or vessel.

Bellows type expansion joints require little to no maintenance and are capable of absorbing axial, lateral and angular types of movements in a compact space.

Since expansion joints are generally custom designed, they are highly specialized products. It is necessary to supply the expansion joint manufacturer with the necessary information for correct design. As a minimum the following information must be given: Diameter, design movements, pressure and temperature, materials of construction, connection type and length.































Manufacturing of expansion joints

FINISH



Bellows material is cut from sheet or coil

Material is rolled to required diameter



Rolled tubes are longitudinally welded



If bellows is multiply each tube is put inside each other





Convolutions are manufactured by mechanical or hydroforming.















Lens Expansion Joints

Dents and gouges create stress risers in thin ply bellows which result in fatigue cracks over time. Lens bellows have the advantage of holding up to mechanical damage better than thin wall bellows. Other advantages of lens bellows are:

- Weld repair can be performed by plant maintenance staff on thick walled bellows.
- Thicker wall of lens bellows holds up better to corrosion attacks
- Common use of carbon steel material
- Drain couplings can be added to the bottom of the convolution to prevent condensate build up

Thick walled, high convolution is durable and lasts for a long time.





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