



Alfa - An Insight

30 countries
25 years experience
250 people dedicated
Over 100 products
ISO / TS 16949:2009 Certificate

ALFA Bellows have been engaged in design and manufacture of Bellows and Expansion Joints in sizes 40mm to 1500mm for the last 12 years and have supplied many thousand Bellows, Expansion Joints and compensators to hundreds of projects in the country to highest level of customer satisfaction.

Bellows / Expansion Joints are basically compensators in pipe lines that absorb thermal expansion and contraction of pipe lines due to temperature changes.

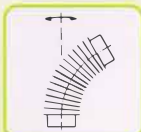
Bellows are made from thin wall Stainless Tubes in single or multi-ply and designed according to line pressure, linear expansion or contraction and various other factors. The bellow (Flexible Element of Expansion Joint) has number of convolutions, formed hydraulically on Stainless thin wall tubes.



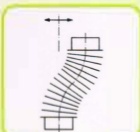
Movements



Axial Displacement



Angular Rotation



Lateral Deflection

Design Capability

Alfa has in house capabilities for design and manufacturing of Bellows and Expansion Joints. Alfa's design team consists of highly skilled engineers who have years of experience in the field of design and manufacturing of Flexible piping solutions. Alfa uses latest software and techniques for manufacturing of Bellows and Expansion Joints.



Alfa has been supplying large variety of Bellows in sizes 40mm to 1500mm to most of most projects for D.G. Set, Gas Based D.G. Sets, Steam and Gas Turbines, hot and cold air pipe lines, pumps and compressors and various other piping systems to take care of vibrations, thermal expansions and misaligned pipings.

Multiply Bellows

For high pressure and critical applications, where pressure thrust is more, **Multiply Bellows / Expansion Joints** are recommended. They are more durable, reliable and gives better results in High pressure.



Single-ply



Double-ply

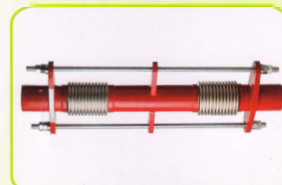


Triple-ply

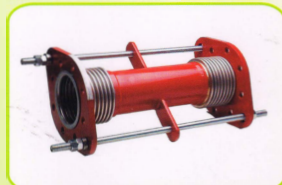
Expansion Joints are made in various types but most commonly used are:



Single Expansion Joint



Double Expansion Joint

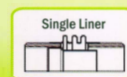


Universal Expansion Joint

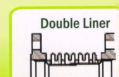


Hinged Expansion Joint

All these type of Expansion Joints are made from single ply or 2 ply Bellows for D.G. set and General Industrial application with Inner Liner or without Liner.



Single Liner



Double Liner

Alfa Metal Bellows

- Absorbs linear expansion and contraction in a pipeline.
- Helps in minimizing the misalignment in pipelines.
- Pressure stable and Vacuum tight.
- Temperature resistant.
- Reliable and economical.
- Single and Multi-pled design.
- Manufactured using modern forming & welding techniques.



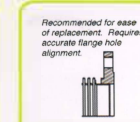
End Connections



Only Tangent



Welded End



Fixed Flange



Floating Flange

Stainless Steel Bellows are best suited over Rubber Bellows in temperature above 60°C and give longer life even if exposed to open atmosphere. Stainless Steel Bellows should not be used for acid pipe lines, raw water having high chloride contents or alkalies.

Environmental Policy

We, at Alfa hoses & bellows, works with a philosophy to carry out environmental friendly business activities taking environmental conservation into consideration.

We will achieve this by, design, manufacture and marketing of energy efficient products, increased use of ecofriendly process and materials. Reduction of waste generation, recycle, proper disposal and tree plantation.



Alfa's other Products

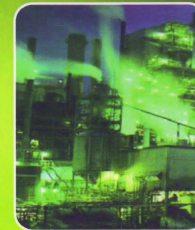
Metal Hoses and Hose Assemblies



Automotive Exhaust Flex Pipes



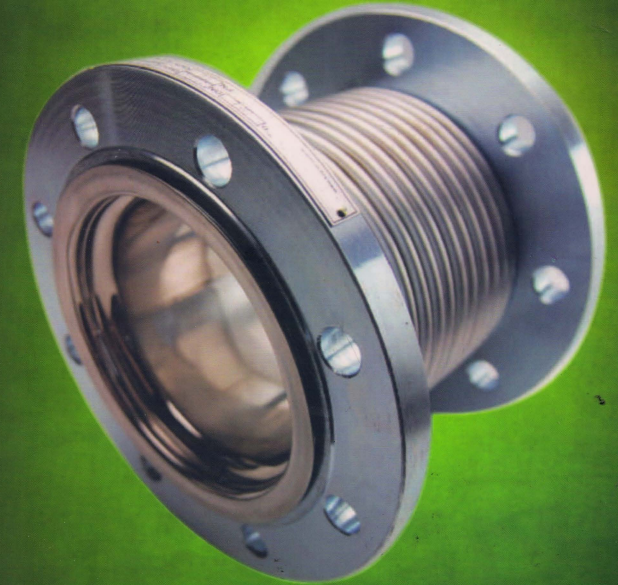
Industries Served



Power Generation
Chemical Processing
Pulp & Paper
Hot Metal Industries
Ship Building
HVAC
Water Treatment
OEM



Metal Bellows & Expansion Joints



ALFA HIGH-TECH METALLIC (STAINLESS STEEL) PIPING COMPENSATORS - BELLOWS EXPANSION JOINTS



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