

## Introduction of Company

- Established in the year 2005, we “Vallabh engineers”, is one of the leading manufacturers and suppliers of precision engineered range of Bellows and Expansion Bellows. Our wide range of products is designed using superior quality raw material, which are procured from the reliable vendors.
- Our range is fabricated using quality material and is demanded in the market for features like tensile strength, high efficiency and longer service life. These are widely used in engineering and automobile industry. We have developed a sophisticated manufacturing unit, which is equipped with modern tools and machines. Further, we have a well developed warehousing unit which is maintained by our able team members and design our range keeping the parameters of durability, products functionality and productivity.

**Design:** We Posses In House Facility to Achieve Most Suitable Bellows design based on EJMA Standard to withstand Design Pressure and Design Temperature to absorb Axial Movement, Lateral Movement Depending upon the Requirement of Piping System or Exhaust System.

### Type of Bellows:

1) Circular Expansion Bellows.

2) Rectangular Type Bellows.

3) Square Expansion Bellows.

4) Hing Expansion Bellows.

5) Single Axial Bellows.

6) Universal Expansion Bellows.

### MOC of Expansion Bellows.

**SS304, SS304L:** It resists Organic Chemical, it's us used extensively in piping system to Conveying Petroleum Product compressed air, Fuel Gas etc, The Temperature range is 400 Degree C

**SS316:** It contains More Nickel then SS304, the Addition of 2% and 3% molybdenum gives it improved corrosion resistance Compared to SS304, It is Used convey fluid such is Crude Oil with high Slufer, Heat Exchangers, Etc.

**SS321:** The Addition of titanium to this stainless steel act as a carbide Stabilizing element that prevents carbide precipitation when the material is heated and cooled through the temperature range to 400 Degree C to 800 Degree C. SS321 finds uses in many of same application as type as SS304, where they attend safeguard from intergranular corrosion is desired. In most Exhaust System SS321 Material is used for High Temperature.

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## Images for Finish Products

### Metal Bellows



### Bellows



### Universal Bellows



### Square Bellows



### Rectangle Bellows



### Swivel Bellows





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## ANFD Bellows



## Generator Bellows



## Expansion Bellows



## Compressor Bellows



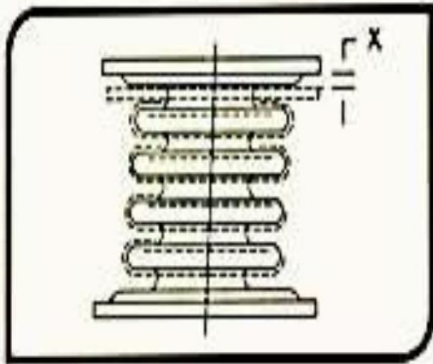
## Current Transformer



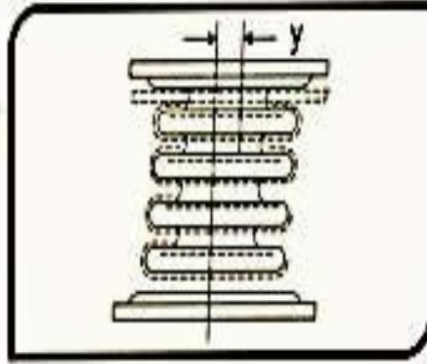
## SS Bellows



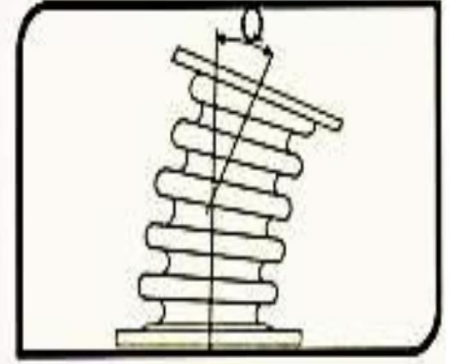
## Types of Movement in Bellows:



**Axial Movement**



**Lateral Movement**



**Angular Movement**

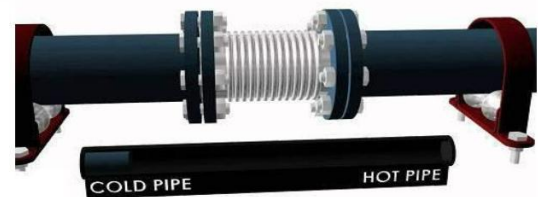
## Working of Expansion Joint or Metallic Bellows.

The function of Metallic Expansion Bellows is to Absorb Thermal Expansion or Contraction of a pipe Line while, at the same time, continuing the flowing media and withstanding the design temperature and Pressure.

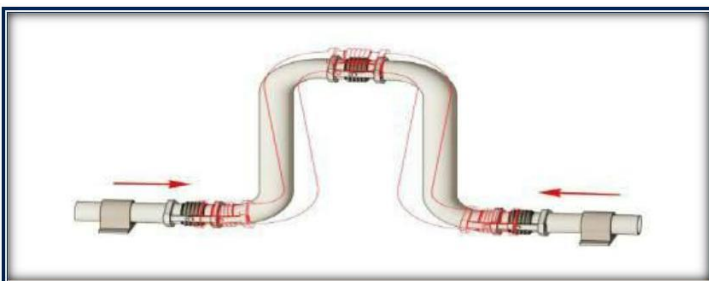
**Figure: 01** Axial types of Metallic Bellows is used, here it takes Axial Movement and absorb Thermal Expansion and contraction.



**Axial Type Bellows**



**Figure: 02** Here Bellows as design to take only Lateral Movement cause by thermal Expansion. In this Piping System Hing type of Bellows are used to take Lateral Movement.



**Hing Type Bellows**





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We are here...



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