



**LONESTAR  
Industries**

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## General Information

### ▶▶ IGP PRODUCTS



### ▶▶ Group Of Companies

- ▶ IGP ENGINEERS
- ▶ ARUDRA ENGINEERS
- ▶ ARUCHEM
- ▶ CORI ENGINEERS
- ▶ INSAP ENGINEERS
- ▶ VP ENGINEERS
- ▶ INSAPLEX
- ▶ LONESTAR INDUSTRIES

## Profile

LONESTAR INDUSTRIES, a leading Engineering Organization based at Chennai, India.

LONESTAR offers a wide range of Metal Expansion Joints / Bellows.

LONESTAR with several years of experience, have successfully developed and supplied Metal Expansion Joints / Bellows for various applications which includes Pipe Lines, Process Ducts, Turbines, Heat Exchangers, Condensers, Exhaust Manifolds and other Equipments.

LONESTAR have supplied Metal Expansion Joints / Bellows for the above applications to various installations in Core-Sector Industries such as Refineries, Petrochemicals, Chemical, Fertilizer, Metallurgical, Steel, Power, Cement, Nuclear, Shipping etc.

LONESTAR with proven design & latest manufacturing technology supported by ISO 9001 accreditation, offers Quality Metal Expansion Joints / Bellows meeting Global Standards.



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## Capabilities

LONESTAR is capable of designing Metal Expansion Joints / Bellows from general applications to critical / extreme service applications.

LONESTAR offers Metal Expansion Joints / Bellows for pressures as high as 250 bar (g) (3550psig) and high temperatures as high as 1300o C (2372 F).

LONESTAR uses latest softwares for designing Metal Expansion Joints / Bellows with guidelines from EJMA, ASME & other International Standards.

LONESTAR employs FEA procedure for critical pressure parts design.

LONESTAR manufactures all types of Metal Expansion Joints / Bellows both in Circular & Rectangular shapes. The size covers up to 9000 mm in Circular and Rectangular to any size.

LONESTAR offers Metal Bellows both in **single ply and multiply** constructions.

LONESTAR adopts "state of the art" Hydro forming, Elastomeric forming and Roll forming techniques to manufacture Metal Expansion Bellows.

LONESTAR offers different convolution profiles such as '**U**' - **shape, Lyra, Toroidal and Diaphragm** according to service requirements.

LONESTAR manufacturers Metal Expansion Joints / Bellows using all grades of Austenitic Stainless Steel such as 304, 321, 316, 316L, 309, 310 etc., Duplex Stainless Steel such as 253 MA and High Performance Alloys such as Alloy 600, Alloy 625, Alloy 625 LCF, Alloy X 750, Alloy 800, Alloy 800H, Alloy 825, Alloy C276, Alloy 400, Cupronickel, Titanium alloys etc.

LONESTAR manufactures various **types** of Metal Expansion Joints / Bellows required for all applications.

**LONESTAR Single Expansion Joints**

**LONESTAR Universal Expansion Joints**

**LONESTAR Tied Lateral Expansion Joints**

**LONESTAR Hinged Expansion Joints**

### **LONESTAR Gimbal Expansion Joints**

### **LONESTAR Elbow Type Pressure Balanced Expansion Joints**

### **LONESTAR Inline Pressure Balanced Expansion Joints**

LONESTAR offers Metal Expansion Joints / Bellows of **special types** for critical and extreme service conditions such as,

### **LONESTAR Externally Pressurized Expansion Joints**

### **LONESTAR Penetration Seal Bellows / Expansion Joints**

### **LONESTAR Refractory Lined Expansion Joints**

### **LONESTAR Reinforced Expansion Joints**

### **LONESTAR Jacketed Expansion Joints**

LONESTAR Metal Expansion Joints / Bellows are subjected to routine NDT checks as per International Codes & Standards.

LONESTAR Metal Expansion Joints / Bellows are subjected to periodic Type test for design & performance evaluation.

LONESTAR can supply Metal Expansion Joints / Bellows on specific requests duly inspected by Internationally reputed Third Party Inspection Agencies





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## Achievements

LONESTAR is the first Metal Expansion Joints / Bellows manufacturer in India to obtain ISO 9001 accreditation.

LONESTAR have supplied a critical application Expansion Joint within 48 hours for a Petrochemical Industry in India, which includes a site study, manufacturing and shipment to user's location.

LONESTAR have developed and supplied Externally Pressurized Expansion Joints for accommodating large amount of movement at high pressure for Refineries in India.

LONESTAR have developed and supplied Reinforced Expansion Joints for very High Pressure Fixed Tube Heat Exchanger under Third Party Inspection for an OEM in India.

LONESTAR have developed High Pressure Expansion Joints for compensating large amount of Lateral movement for the Oil installations in Middle East Asia and India.

LONESTAR have been supplying Metal Expansion Joints / Bellows to various Shipping Industries / Ship Repairers with short delivery as low as 24 hours.