

Metallic Expansion Joint

Metallic expansion joints (also called compensators) are compensating elements for thermal expansion and relative movement in pipelines, containers and machines. They consist of one or more metal bellows, connectors at both ends, and tie rods which restrain pressure thrust. Expansion joints could be applied in various sectors, such as energy production, paper industry, chemical industry, water treatment, and oil and gas industry. Expansion joints can be used wherever thermal movements or vibration is occurred in pipelines.



Single Type

Restrained



Un Restrained



Universal Type

PantoGraph



Restrained



Generally Used for absorbing all kind of movements

Generally Used for absorbing large amount of Lateral movement

Manufacturing capacity | Max. Diameter : 10,000mm, Max. Pressure : 50bar, Bellows material : S.S. 3** series / Inco** / Hastelloy / Monel / Ti gr-*

Hinge Type

Double Hinge



3D Hinge



Gimbal Type

Double Gimbal



Double Gimbal



Absorbing only 1 plane angular movement
Generally used 2 or 3 pcs to absorb lateral movement in piping system

Absorbing 2 planes angular movement
Generally used 2 or 3 pcs to absorb lateral movement in piping system

Manufacturing capacity | Max. Diameter : 10,000mm, Max. Pressure : 50bar, Bellows material : S.S. 3** series / Inco** / Hastelloy / Monel / Ti gr-*

Pressure Balanced Type

Pressure Balanced Type



Pressure Balanced Type



Rectangular Type

Round Corner



Camera Corner



Used where Fix Point (Anchor) can not be installed
L-Type or S-Type is used in Piping system

Used for square ducting system
There are 3 types of bellows corner shape
Max. Size : No limit

Ordering Information

When you need Expansion joints, please inform us as follow

Pipe/Duct Size _____ Design Pressure _____ Design Temperature _____ Flow Medium _____

Required Movements

Axial Compression _____ Axial Extension _____ Lateral Offset _____ Angular Rotation _____

Bellows Material _____ Other requirement _____ End Connection Type _____



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