

STAINLESS STEEL EXPANSION JOINT

DOUBLE GIMBAL

GENERAL PRODUCT SHEET

> DESCRIPTION

The double gimbal lateral expansion joint is a double standard lateral expansion joint equipped with a construction with a four hinge points built around it. The hinge points are intersecting with the axis of the piping and rotate 90 degrees relative to each other. All movements except for axial movements are possible.

An advantage of this configuration is that the forces of the pressure inside the bellow are retained by the hinge construction.



This type of expansion joint is always assembled with fixed flanges. On request also pipe-end configurations are possible.

> KEY FEATURES

- Prevention of Axial movements
- All other movements possible
- Pressure thrust restrained
- Controlled movements

> MATERIAL PROPERTIES

Standard grade of bellow is AISI 316. Flanges are made out of standard carbon steel with corrosion protection for fixed flanges. On request stainless steel flanges are also available. Pipe-ends and bund rings are manufactured in AISI 316 grade. The additional construction of the threaded rods is possible in steel paint coated and stainless steel.

> MOVEMENT TABLE

Axial	Lateral	Angular	
O	Single plane	X	Single plane
	Multi-plane	X	Multi-plane

This table will indicate the possible movements for each type of expansion joint

X= suitable for movement
O= not suitable for movements

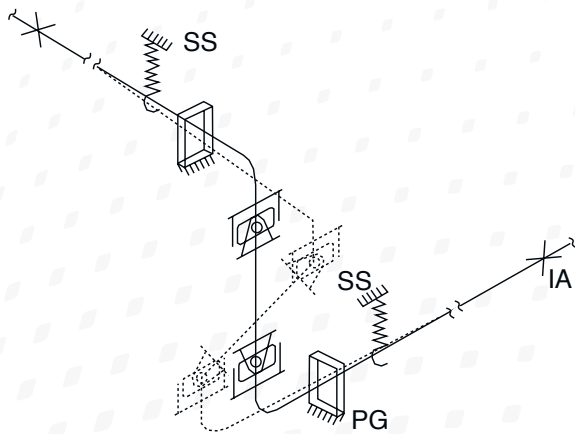
> STANDARD

The bellow is designed according to the most recent EJMA standards. Assembly is done according to EN 14917 / ISO 15348. Assemblies are possible with welding ends (ASME B36.10), flanges according to European standard (EN 1092-1) or ANSI standard (ASME B16.5). Flanges according to JIS standard (JIS B2220) are also possible on request.

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> TYPICAL APPLICATIONS



Double gimbal expansion joints are often used in the same applications as pairs of single gimbals to absorb lateral movements in multiple planes.

These movements are caused by the elongation / contraction in a 3D piping system between the two intermediate anchors (IA).

> POSSIBLE ACCESSORIES

- Liner
- Braid
- Heat protection sleeve

All options are explained in detail on page 125-128