STAINLESS STEEL EXPANSION JOINT

GIMBAL

PRODUCT SHEET

> DESCRIPTION

The gimbal expansion joint is a standard angular expansion joint with a construction around it with two hinge points so that it can only absorb angular movements. All other movements are prevented by the assembly.

This configuration is always equipped with fixed flanges. On request pipe-end configurations can also be offered.

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

> KEY FEATURES

- Absorbs angular movements in all directions
- Pressure thrust is retained
- Stable construction

> MOVEMENT TABLE

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

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

X= suitable for movement
O= not suitable for 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 are possible in steel paint coated and stainless steel.

> 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 European standard (EN 1092-1) or ANSI standard (ASME B16.5).
Flanges according JIS standard (JIS B2220) are also possible on request.

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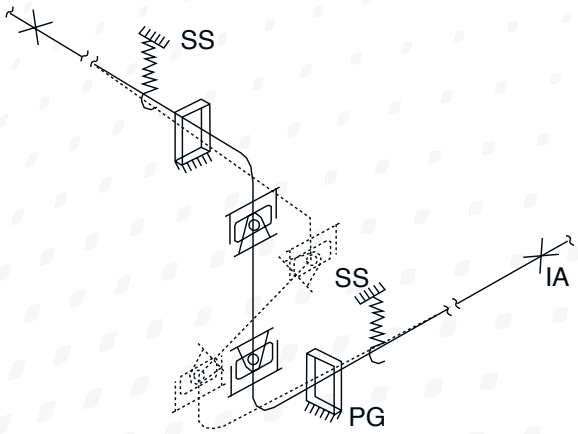
> TYPICAL APPLICATIONS



Gimbal expansion joints are often used in pairs to absorb lateral movement in multiple planes. These movements are caused by the expansion / contraction in a 3D piping system between the intermediate anchors (IA).

> POSSIBLE ACCESSORIES

- Liner
- Heat protection sleeve
- PTFE lining

All options are explained in detail on page 125-128