

STAINLESS STEEL EXPANSION JOINT

DOUBLE HINGED

GENERAL PRODUCT SHEET

> DESCRIPTION

The double hinged lateral expansion joint is a double standard lateral expansion joint with a construction with a two hinge points built around it. The hinge points are intersecting with the axis of the piping. Only lateral movement and some angular rotation in a single plane are possible. All other movements are prevented by the construction.

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 assembled with fixed flanges. On request pipe-end configurations are also possible.

> KEY FEATURES

- Absorption of large lateral deflections and angular rotation in one plane
- Controlled movements
- No other movements possible
- Pressure thrust restrained

> MATERIAL PROPERTIES

Standard grade of bellow is AISI 316. Flanges are 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.

> MOVEMENT TABLE

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

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

X= suitable for movement
O= not suitable for movements

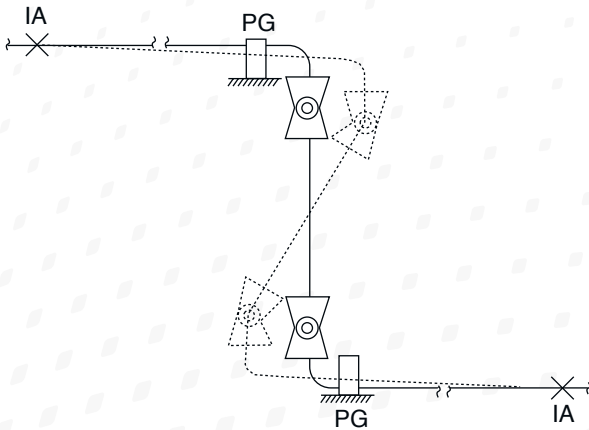
> STANDARD

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



This type of expansion joint is applied in specific systems which require a limitation of the movement to single plane lateral movements and some angular movements.

Double hinged joints are often used instead of pairs of angular expansion joints to absorb a linear deflection. The pipes are fixed in points IA and kept in the same plane by the guiders (PG).

> POSSIBLE ACCESSORIES

- Liner
- Heat protection sleeve

All options are explained in detail on page 125-128