

STAINLESS STEEL EXPANSION JOINT

IN-LINE PRESSURE BALANCED

PRODUCT SHEET

> DESCRIPTION

The in-line pressure balanced expansion joints are designed to minimize pressure forces within the piping system. The pressure load is balanced by using a larger bellow between two smaller bellows. The middle one has an effective area double the size of the smaller ones. Therefore the force created by the pressure on the two smaller bellows is reduced to a minimum by the counter-acting force in the larger bellow.

The pipes experience less forces so there is less risk of kink in the pipes. This is often important when sufficient supports are not possible.

These types of expansion joints are always designed according to customer's specifications.



> KEY FEATURES

- Minimizes forces on piping system
- Single plane axial movement absorption

> 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 paint coated steel and stainless steel.

> MOVEMENT TABLE

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

This type of expansion joint is used in applications whereby the load as a result of internal pressure is not acceptable. This is often the case when only a few support points are possible. When there are few support points, the risk of kink is high if the pressure thrust is not restrained.

> POSSIBLE ACCESSORIES

- Liner

All options are explained in detail on page 125-128