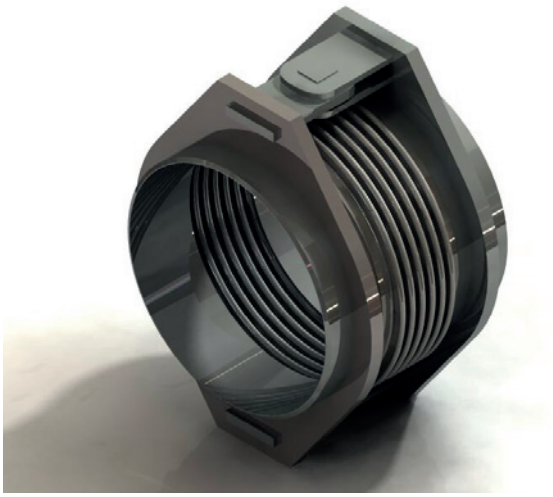
Single Hinged Expansion Joints
MWP & MFP Series

Description

These expansion joints are made of one single bellows element fitted with welding ends or flanges plus a system of articulated supports which allow for ANGULAR MOVEMENT IN ONE PLANE ONLY.
The hinge mechanism is designed to accept full pressure thrust.

These units do not allow axial movement however, some types of hinge systems can be provided with holes for the hinge pin that are slotted to allow limited axial displacement. These “slotted hinge” types can not resist the pressure thrust forces and therefore proper anchorage must be provided



MWP
Hinged expansion joint with welding ends.

Features

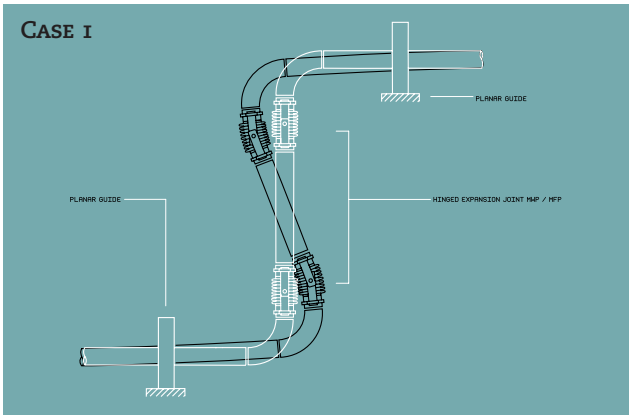
- Absorbs angular movements in a single plane
- Restrains pressure thrust forces
- Transmits shear and wind loads
- Supports dead weight
- Avoid twisting the bellows
- No main anchors required

MFP
Hinged expansion joint with flanges.

TYPE	SERIES	PRESSURE THRUST RESTRAIN	MOVEMENTS		
			AXIAL	LATERAL	ANGULAR
Single Hinged	MWP MFP	YES	NO	SINGLE-PLANE NO MULTI-PLANE NO	SINGLE-PLANE YES MULTI-PLANE NO

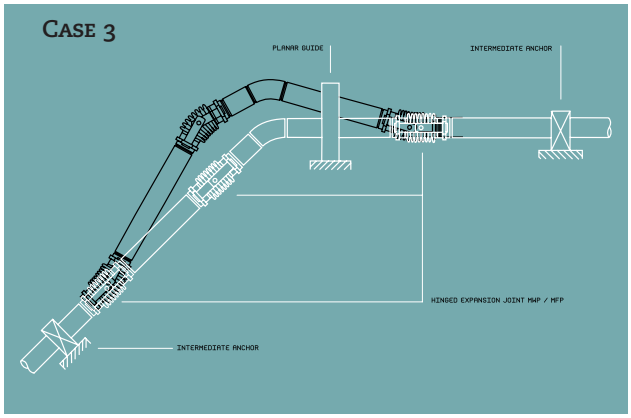
Typical applications of Single Hinged Expansion Joints

Case 1



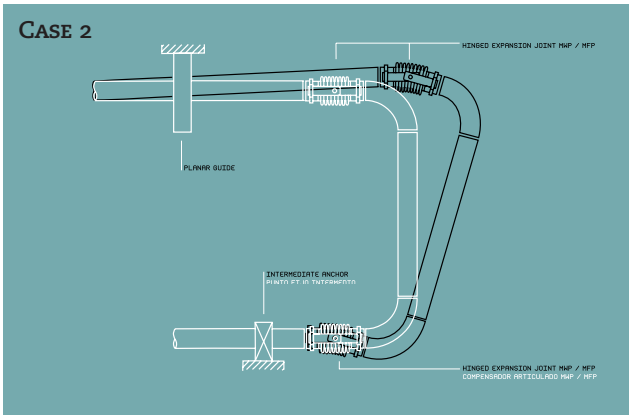
Two MWP/MFP Hinged Expansion Joints or one single MWY/MFY double Expansion Joint can be used to absorb the thermal expansion in a Z-shaped section of piping which only occurs in one plane.

Case 3

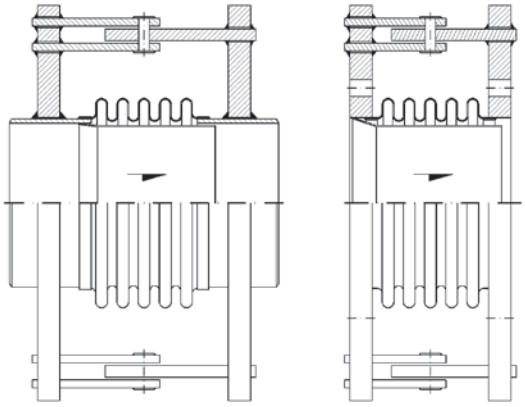


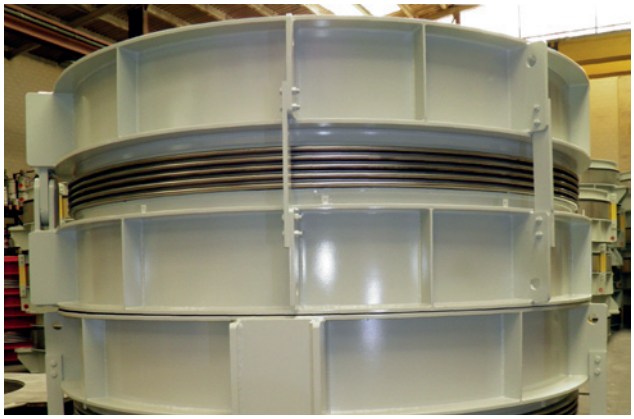
There is a different 90° angle in the section of piping.

Case 2



In the case of pure angular movement these Expansion Joints can be used to absorb expansion in a specific section of piping.





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