Single unrestrained

MWA & MFA series

These expansion joints are made of one single bellows element with end connections.

Regardless of accessories, such as liners and covers, this model absorbs all of the movements in any one length of piping but it is mainly used to absorb axial movements.

It does not restrain pressure thrust so adequate anchors and guides must be provided and they can be used only in piping systems that incorporate correctly designed anchors and pipe alignment guides.These expansion joints are made of one single bellows element with end connections.

MWA

This type of Expansion Joint is made up of one single bellows provided with welding ends.

MFA

This type of Expansion Joint is made up of one single bellows equipped with fixed flanges.

MFG

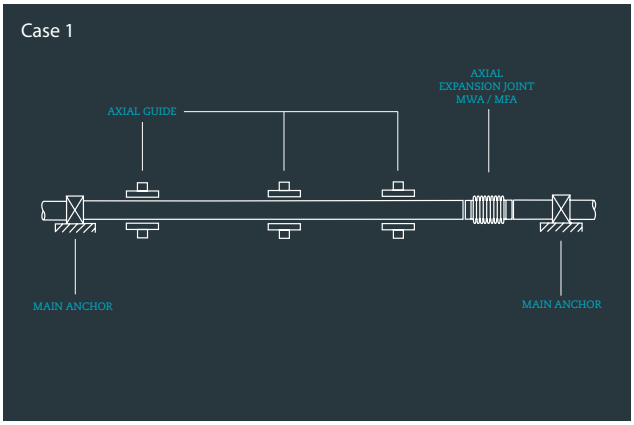
This type of Expansion Joint is made up of one single bellows equipped with floating flanges.

More Single unrestrained expansion joints on www.macoga.com

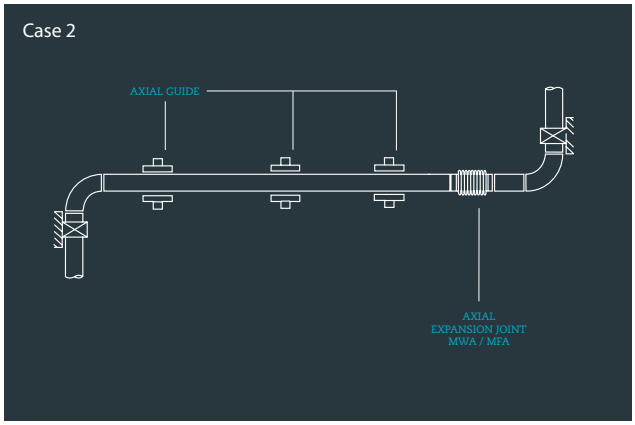
Features

Type	Series			
Single unrestrained	MWA, MFA, MTE, MTI, MQP, MFG			
Pressure thrust restraint	**Movements**			
✗	Axial		✓	Must be properly guided Requires main and directional anchors
	Lateral	Single-plane	✓	
		Multi-plane	✓	
	Angular	Single-plane	✓	
		Multi-plane	✓	

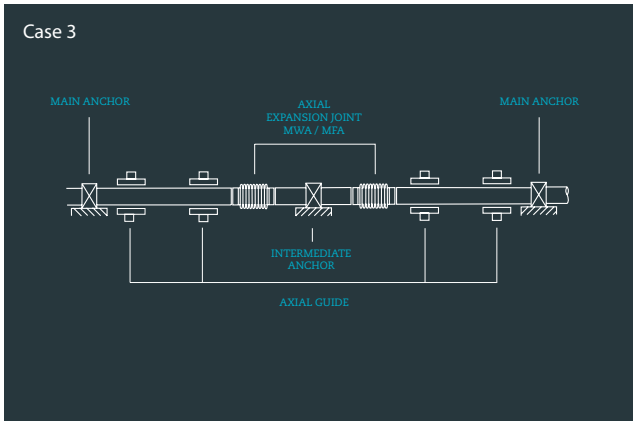
Typical applications



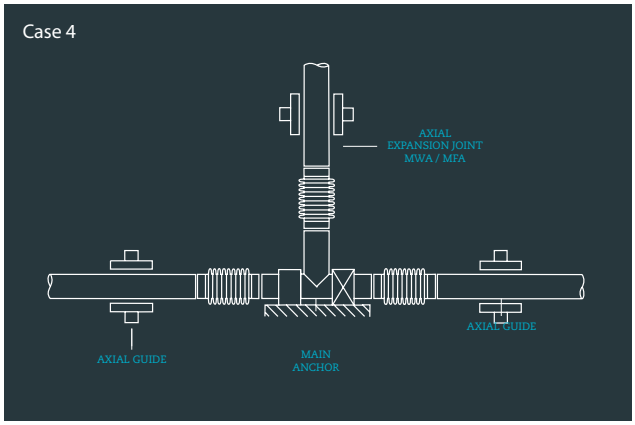
The classic case of an Expansion Joint located in a straight section of piping installed between two main anchors.



The main anchors are located where pipes change directions in order to consider the straight section as an individual section of piping taking us to case no. 1.



Owing to the size of the straight section of pipe, the Axial EJs are fitted in a way that they are joined together by an intermediate fixed point, thus forming a single unit, similar to an Axial EJ fitted between two main fixed points.



In this case the main fixed point is situated at the intersection where two sections of piping meet.

Typical applications