



# HMP™ Range of Expansion Joints

## Overview:

The HMP™ Expansion joint is a custom designed piece of equipment that is designed to allow for contraction and expansion in vertical, inclined and horizontal installed piping.

There are two types of HMP™ Expansion joints, the first with jacking bolt arrangement. The jacking bolt arrangement simplifies installation and prevents the expansion joint from pulling apart. The second type has no jacking bolt arrangement. Should this type of expansion joint be used, extra care needs to be taken in the design of the piping system in order to prevent to expansion joint from pulling apart. The HMP™ Expansion joint can be produced in a double acting expansion joint with an anchor point in the middle.

## Materials Of Construction:

Part Name	Material Specification
Stationary body #1	Casting - BS3100 Grade A2 with 309 S/Steel overlay
Stationary body #2	Hollow bar - ST52 with 309 S/Steel overlay
Stationary body #3	ASTM A105 with 309 S/Steel overlay
Stationary body #4	431 S/Steel or 309 S/Steel
Sliding body #1	Casting - BS3100 Grade A2 with 309 S/Steel overlay
Sliding body #2	Hollow bar - ST-52 with 309 S/Steel overlay
Sliding body #3	ASTM A105 with 309 S/Steel overlay
Sliding body #4	431 S/Steel or 309 S/Steel
Bolts	Grade 8.8, Hot dipped galvanized
Seals	Polyurethane
Flanges	ASTM A105
Bolts	Studs, grade 8.8, Hot dipped galvanized



## Design & Manufacturing Standards:

The HMP™ Expansion Joint Range has been designed in accordance with various international standards as set out below:  
ASME Boilers and pressure vessels design code  
ANSI B16.3     ANSI N278.1  
ANSI B16.34    ANSI B16.37  
ANSI B16.5

Available sizes: DN50 / 2" to DN500 / 16"  
Pressure rating: up to 25MPa / 3 626 Psi

Available end connections: ANSI B16.5, BS4504, BS10, AS/NZS 4331.1 (ISO 7005-1) DIN, Victaulic, and other as per clients requirement.

