

Hinged or Angular

Expansion Joints

Angular expansion joints incorporate a hinge assembly so as to allow angulation in a single plane. Hinged expansion joints are predominantly used in combination with other hinged or gimbal expansion joints to create '2-pin' or '3-pin' systems, by effectively converting relatively large amounts of axial movement in to relatively small amounts of angulation.



As a 'restrained' expansion joint, the integral hinge design on an angular expansion joint restrains the pressure thrust generated by pressurisation of the system, therefore relatively light anchors and guides may be utilised as only minimal forces are transferred to the adjacent pipe work installation. Hinged expansion joints can also be manufactured as

'Double' hinged expansion joints so as to allow lateral deflection in one plane only through

Angulation of each of the bellows elements. Bellows Technology hinged angular expansion joints are often utilised on pipe systems carrying steam, water, oil and condensate.

Construction options can include;

- 50mm - 3000mm DN inclusive
- Lengths to suit
- Multiply convoluted membranes
- Bellows Technology stainless steel expansion joints can be supplied with flanged, weld-end or slotted terminations in line with our customers' requirements
- Material combinations can include stainless steels, carbon steels and high alloy 'Exotic' materials
- Internal flow sleeves and liners
- Fixed and/or Swivel flanges
- External protective shrouds
- Specialist flange coatings
- Non Destructive Testing

Call on our experience

+44 (0) 1663 745873

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