

SEISMIC LIMIT ROD

Expansion Joints

In addition to thermal movements in pipelines, there are mechanical movements due to earthquakes, ground settlements and landslides. These type of movements can cause significant damage to the piping systems in dilatation points of buildings, pipe junctions between vessels and boilers.

These mechanical movements can be absorbed by using seismic expansion joints.

Advantages

- » Seismic expansion joints with rods is to absorb lateral and axial movements of both thermal and seismic origin.
- » With its limit rods, the expansion range can be set in adjusted range
- » High movement capacity and resistance to high temperatures and chemicals
- » Rotating flange, fixed flange or welding neck connection type are available

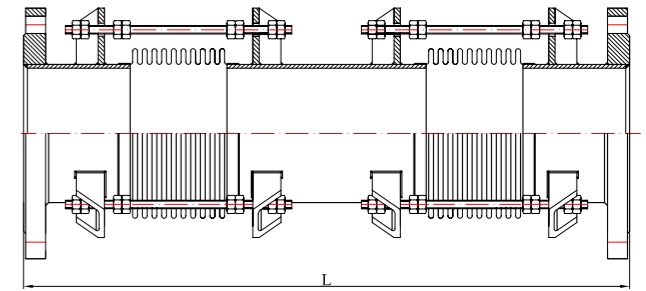
Applications

- » Hot & Cold water pipelines
- » Fire fighting systems
- » Superheated water
- » Steam and condensate pipelines
- » Industrial Applications
- » Marine & Exhaust systems
- » HVAC lines



DESIGN VALUES

| | |
|---------------------|-------------------------------|
| DN | 32 – 250 |
| Bellows Material | 304, 316, 321 |
| Balance of Material | Carbon Steel, Stainless Steel |
| Design Pressure | 16 barg |
| Design Temperature | 400°C |



| Nominal Diameter | | Type 1 | | | Type 2 | | | Type 3 | | |
|------------------|--------|------------------|--------------------|------------|------------------|--------------------|------------|------------------|--------------------|------------|
| | | Movements (mm) | | Length (L) | Movements (mm) | | Length (L) | Movements (mm) | | Length (L) |
| (DN) | | Axial (+/-) (mm) | Lateral (+/-) (mm) | (mm) | Axial (+/-) (mm) | Lateral (+/-) (mm) | (mm) | Axial (+/-) (mm) | Lateral (+/-) (mm) | (mm) |
| 32 | 1 1/4" | 15 | 25 | 595 | 15 | 50 | 620 | 15 | 75 | 690 |
| 40 | 1 1/2" | 15 | 25 | 620 | 15 | 50 | 650 | 15 | 75 | 720 |
| 50 | 2" | 15 | 25 | 580 | 15 | 50 | 615 | 15 | 75 | 690 |
| | | 15 | 25 | 620 | 15 | 50 | 660 | 15 | 75 | 735 |
| 65 | 2 1/2" | 23 | 25 | 665 | 23 | 50 | 705 | 23 | 75 | 780 |
| | | 30 | 25 | 710 | 30 | 50 | 750 | 30 | 75 | 825 |
| 80 | 3" | 15 | 25 | 700 | 15 | 50 | 730 | 15 | 75 | 790 |
| | | 23 | 25 | 750 | 23 | 50 | 780 | 23 | 75 | 835 |
| 100 | 4" | 30 | 25 | 795 | 30 | 50 | 830 | 30 | 75 | 885 |
| | | 15 | 25 | 750 | 15 | 50 | 790 | 15 | 75 | 825 |
| 125 | 5" | 23 | 25 | 805 | 23 | 50 | 840 | 23 | 75 | 860 |
| | | 30 | 25 | 860 | 30 | 50 | 895 | 30 | 75 | 915 |
| 150 | 6" | 15 | 25 | 765 | 15 | 50 | 810 | 15 | 75 | 865 |
| | | 23 | 25 | 810 | 23 | 50 | 875 | 23 | 75 | 910 |
| 200 | 8" | 30 | 25 | 875 | 30 | 50 | 920 | 30 | 75 | 950 |
| | | 15 | 25 | 840 | 15 | 50 | 890 | 15 | 75 | 945 |
| 250 | 10" | 23 | 25 | 890 | 23 | 50 | 940 | 23 | 75 | 995 |
| | | 30 | 25 | 940 | 30 | 50 | 985 | 30 | 75 | 1040 |
| 200 | 8" | 15 | 25 | 885 | 15 | 50 | 960 | 15 | 75 | 1050 |
| | | 23 | 25 | 935 | 23 | 50 | 1015 | 23 | 75 | 1100 |
| 250 | 10" | 30 | 25 | 990 | 30 | 50 | 1065 | 30 | 75 | 1150 |
| | | 15 | 25 | 885 | 15 | 50 | 930 | 15 | 75 | 1040 |
| 250 | 10" | 23 | 25 | 930 | 23 | 50 | 985 | 23 | 75 | 1095 |
| | | 30 | 25 | 985 | 30 | 50 | 1040 | 30 | 75 | 1150 |

Please consult with our technical department for different working conditions and design parameters.

Movements are non-concurrent