

Single Sphere Rubber Expansion Joint

FIG. 8101

Specifications

- With single structure so that the vibration absorption is better and noise reduction efficiency is significant.
- High working pressure, anti-burst and good elasticity.
- To avoid damage caused by stretching, compressing, deflecting or displacing of pipes.
- Carbon steel flanges, Zinc plated to BS4504 PN16 (Other flanges available).
- EPDM rubber suitable for hot water, steam, oxidant, animal and vegetable oils. Good for high and low temperature applications.
- NBR is suitable for most hydrocarbons, good for high and hydraulic fluids. Not good for sunlight ageing, ozone and flame.
- Neoprene suitable for water, sewage, oxidant and non-aromatic hydrocarbons. Good for oil resistance and weathering.
- Certificated to ANSI / NSF 61 & 372.

Working Pressure

Size DN32 to DN300:

- Maximum Working pressure 16 bar.
- Bursting pressure 48bar.
- Vacuum rating 750mmHg.

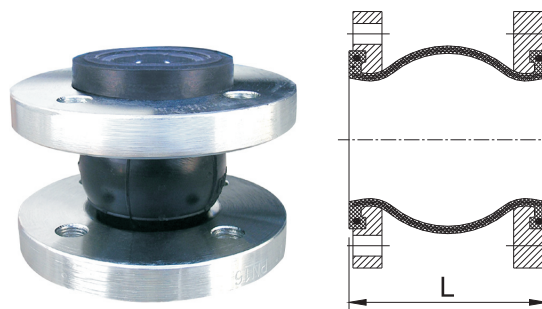
Size DN350 to DN600:

- Maximum Working pressure 10 bar.
- Bursting pressure 30 bar.
- Vacuum rating 500mmHg.

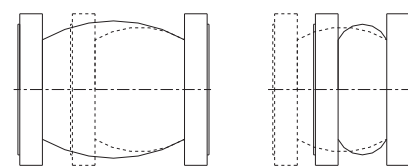
Material Specifications

| Part | Material |
|------------------|-------------------|
| Rubber | EPDM |
| Carcass | Nylon Cord Fabric |
| Reinforcing wire | Spring Steel Wire |
| Flange | Carbon Steel |

Schematic

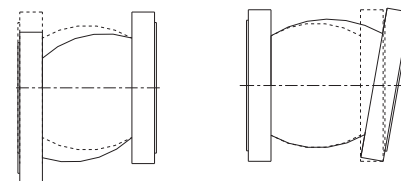


Permits Movement



Axial Elongation

Axial Compression



Lateral Movement

Angular Movement

Main Dimensions(mm)

| Size | L±5 | Axial Compression | Axial Elongation | Lateral Movement | Angular Movement |
|-------|-----|-------------------|------------------|------------------|------------------|
| DN32 | 95 | 9 | 6 | 9 | 15° |
| DN40 | 95 | 10 | 6 | 9 | 15° |
| DN50 | 105 | 10 | 7 | 10 | 15° |
| DN65 | 115 | 13 | 7 | 11 | 15° |
| DN80 | 130 | 15 | 8 | 12 | 15° |
| DN100 | 135 | 19 | 10 | 13 | 15° |
| DN125 | 165 | 19 | 12 | 13 | 15° |
| DN150 | 180 | 20 | 12 | 14 | 15° |
| DN200 | 205 | 25 | 16 | 22 | 15° |
| DN250 | 240 | 25 | 16 | 22 | 15° |
| DN300 | 260 | 25 | 16 | 22 | 15° |
| DN350 | 265 | 25 | 16 | 22 | 15° |
| DN400 | 265 | 25 | 16 | 22 | 15° |
| DN450 | 265 | 25 | 16 | 22 | 15° |
| DN500 | 265 | 25 | 16 | 22 | 15° |
| DN600 | 265 | 25 | 16 | 22 | 15° |

Notes

- Designs, materials and specifications shown are subject to change without notice due to the continuous development of our products.