

Double Sphere Rubber Expansion Joint Fig. VA8102

Specification



- ✓ With multi-sphere 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
Excellent resistance to sunlight. Good for high and low temperature applications
- ✓ NBR is suitable for most hydrocarbons, oils, petroleum fuels and hydraulic fluids
Not good for sunlight ageing, ozone and flame
- ✓ Neoprene suitable for water, sewage, oxidant and non-aromatic hydrocarbons

Material Specification

Item	Part Name	Material	Specification
1	Rubber	EPDM	
2	Carcass	Nylon Cord Fabric	BS EN ISO 2076
3	Reinforcing Wire	Spring Steel Wire	BS EN 10270-1:2024
4	Flange	Carbon Steel, Zinc Plated	BS EN 1092-1:2018

Pressure & Temperature Ratings

- ✓ Maximum Working Pressure: 16 bar
- ✓ Burst Pressure: 48 bar
- ✓ Vacuum Rating: 750 mmHg
- ✓ EPDM Temperature Range: -10°C to +120°C
- ✓ NBR Temperature Range: -10°C to +82°C
- ✓ Neoprene Temperature Range: -10°C to +110°C
- ✓ Flange: EN 1092-1 PN16; other flange standards available upon request

Main Dimensions (mm)

Size	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150
L±5	175	175	175	175	175	255	255	255
Axial Compression	20	20	20	20	20	30	30	30
Axial Elongation	10	10	10	10	10	15	15	15
Lateral Movement	20	20	20	20	20	25	25	25
Angular Movement	30°	30°	30°	30°	30°	30°	30°	30°

Size	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
L±5	325	325	325	350	350	350	350	350
Axial Compression	40	40	40	40	40	45	45	45
Axial Elongation	20	20	20	20	20	25	25	25
Lateral Movement	30	30	30	30	30	30	30	30
Angular Movement	30°	30°	30°	30°	30°	30°	30°	30°

Technical Specification

- ✓ Type: Double Sphere Rubber Expansion Joint
- ✓ Flange Connection: EN 1092-1 PN16
- ✓ Rubber Options: EPDM (Standard), NBR and Neoprene

Permissible Movement

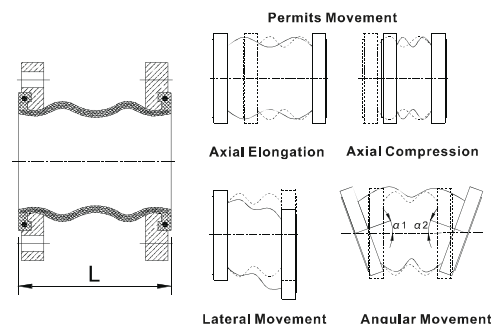
- ✓ Axial Extension
- ✓ Axial Compression
- ✓ Lateral Movement
- ✓ Angular Movement

Options:

- ✓ EPDM (Standard); NBR or Neoprene available upon request

Features & Benefits

- ✓ Double-sphere design provides effective vibration absorption and noise reduction
- ✓ High pressure resistance with excellent elasticity and reliable performance
- ✓ Accommodates axial, lateral and angular movements, helping to reduce stress on piping systems
- ✓ Compensates for pipe expansion, contraction and minor misalignment
- ✓ Helps protect piping systems and connected equipment from vibration and mechanical stress
- ✓ Increased movement capability compared with single-sphere designs
- ✓ Different rubber compounds are available to suit various service conditions



Notes

Specifications, materials and dimensions shown are subject to change without prior notice

