

Single Sphere Rubber Expansion Joint Fig. VA8101

Specification

- ✓ 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

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	95	94	105	115	130	135	165	180
Axial Compression	9	10	10	13	15	19	19	20
Axial Elongation	6	6	7	7	8	10	12	12
Lateral Movement	9	9	10	11	12	13	13	14
Angular Movement	15°	15°	15°	15°	15°	15°	15°	15°

Size	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
L±5	205	240	260	265	265	265	265	265
Axial Compression	25	25	25	25	25	25	25	25
Axial Elongation	16	16	16	16	16	16	16	16
Lateral Movement	22	22	22	22	22	22	22	22
Angular Movement	15°	15°	15°	15°	15°	15°	15°	15°

Technical Specification

- ✓ Type: Single Sphere Rubber Expansion Joint
- ✓ Available Rubber Materials: EPDM, NBR and Neoprene
- ✓ Permissible Movement: Axial Compression, Axial Extension, Lateral Movement and Angular Movement

Permissible Movement

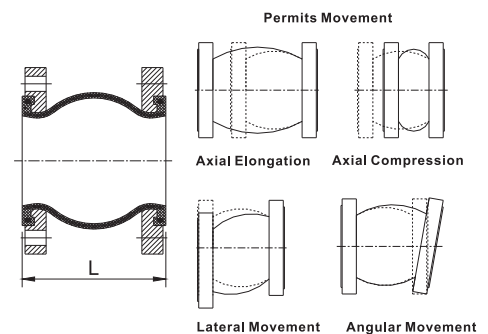
- ✓ Axial Extension
- ✓ Axial Compression
- ✓ Lateral Movement
- ✓ Angular Movement

Options:

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

Features & Benefits

- ✓ Single-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
- ✓ Different rubber compounds are available to suit various service conditions



Notes

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

