



Double Sphere Union Type Rubber Expansion Joint Fig. VA8701

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.
- ✓ Malleable iron fittings with Zinc plated, NPT or BSPT thread
- ✓ 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 , Zink 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

Main Dimensions (mm)

Size	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80
L	200	200	200	200	200	200	245	245
Axial Compression	22	22	22	22	22	22	22	22
Axial Elongation	5	5	6	6	6	6	6	6
Lateral Movement	22	22	22	22	22	22	22	22
Angular Movement $\alpha_1 + \alpha_2$	45°	45°	45°	45°	35°	25°	25°	25°

Technical Specification

- ✓ Type: Double Sphere Union Type Rubber Expansion Joint
- ✓ Connection: Threaded Union Ends, BSPT or NPT
- ✓ Rubber Options: EPDM (Standard), NBR and Neoprene

Permissible Movement

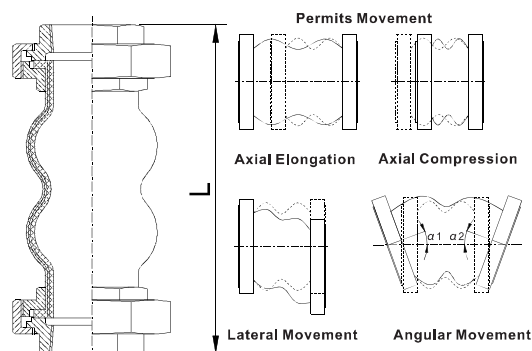
- ✓ Axial Extension
- ✓ Axial Compression
- ✓ Lateral Movement
- ✓ Angular Movement

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
- ✓ Union-type threaded connections allow easy installation and maintenance
- ✓ Different rubber compounds are available to suit various service conditions

Options:

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



Notes

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

