

Beaver Single-Arch Moulded Rubber Expansion Joint

A precision-moulded rubber expansion joint with a single sphere that provides flexibility in a piping system.

E11, E12, E13



Beaver Single-Arch Moulded Rubber Expansion Joint



Beaver E12 Expansion Joint

The Beaver Single-Arch Moulded Rubber Expansion Joint has a spherical design that gives it four-way movement. It allows for axial compression and extension, lateral deflection, angular and torsional movement.

Aside from absorbing directional movement, this expansion joint also dampens noise and vibration caused by mechanical equipment. It can be used to correct minor pipe misalignments during installation and relieve pipe stress caused by thermal expansion or mechanical movements.

This Beaver rubber expansion joint is suited to transporting fluids, slurries, or gases.

KEY FEATURES

- Spherical design distributes internal pressure in all directions, reduces turbulence, and prevents sediment build-up.
- Inner tube and outer lining use wide variety of elastomers to prevent leakage, provide thermal resistance, and offer protection from various media.
- Steel reinforcement embedded in grooved rubber ends provides strength under pressure or vacuum.
- High strength supporting canvas gives additional pressure resistance.
- Floating flanges ensure a reliable seal and are easy to install.

Need technical advice? Our friendly specialists are here to help.

E11, E12, E13

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Tables 1–2. E11–E13 Expansion Joint Specifications

Technical Specifications		Material Specifications	
Size range	DN25–1200 (1–48")	1 Cover	EPDM
Pressure class and model	PN10 (E11) PN16 (E12) PN25 (E13*) *Only for >DN300 and with limit rods	2 Reinforcing fabric	Nylon
End connections	DIN PN10, PN16, others flange drilling as BS EN1092, PN16 AS2129 Table D, E ANSI150 and JIS10K available on request	3 Tube (temperature range)	EPDM (-45°C to +129°C) Contact us for the following materials: Hypalon (-62°C to +82°C) Neoprene (-53°C to +68°C) NBR (-53°C to +79°C) Viton (-45°C to +179°C) PTFE and EPDM (-53°C to +148°C)
Vacuum	660mm Hg* *Anything higher requires a vacuum spiral or ring	4 Retain ring	Steel
		5 Flange material	Carbon steel

Diagram. E11–E13 Expansion Joint Parts

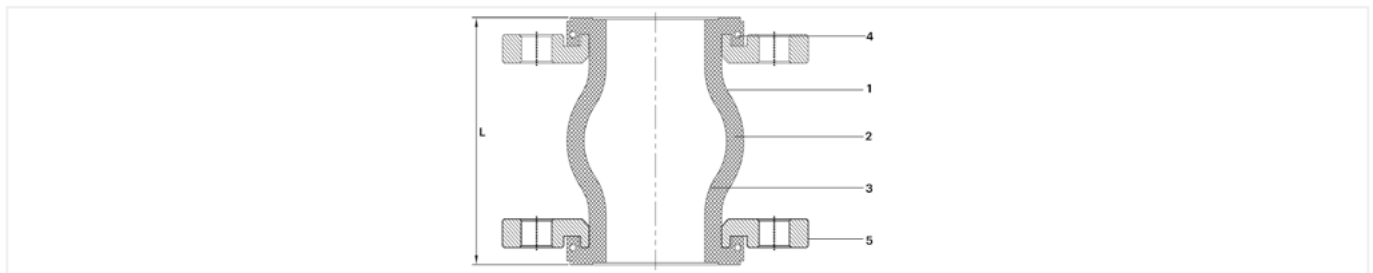


Table 3. E11–E13 Expansion Joint Dimensions

Product Dimensions												
Nominal diameter (mm)		25	32	40	50	65	80	100	125	150	200	250
Length (L)		95	95	95	105	115	130	135	170	180	205	240
Allowable movement (mm)	Axial compression	6	8	8	8	12	12	18	18	18	25	25
	Axial extension	8	4	4	5	6	6	10	10	10	14	14
	Lateral	8	8	8	8	10	10	12	12	12	22	22
	Angular (°)	15°	15°	15°	15°	15°	15°	15°	15°	15°	15°	15°
Max. pressure (bar)		16	16	16	16	16	16	16	16	16	16	10
Nominal diameter (mm)		300	350	400	450	500	600	700	800	900	1000	1200
Length (L)		260	265	265	265	265	265	265	265	265	265	265
Allowable movement (mm)	Axial compression	25	25	25	25	25	25	25	25	25	25	25
	Axial extension	14	16	16	16	16	16	16	16	16	16	16
	Lateral	22	22	22	22	22	22	22	22	22	22	22
	Angular (°)	15°	15°	15°	15°	15°	15°	15°	15°	12°	10°	10°
Max. pressure (bar)		10	10	7	7	7	7	7	7	7	7	7

Notes

- Movements shown are non-concurrent.
- Control rods must be installed when pressure exceeds the above pressure rating.



We're here to help

We know it's important for you to talk to someone who knows their stuff. So if you have technical questions or need help choosing the right products, talk to our team. We'll walk you through our proven problem solving process.

1. Tell us what you need.

Tell us about your project. What do you want to achieve? What problems do you need to overcome? Let's work back from there.

2. Choose the right solution.

Weigh up the options. We'll do the analysis, discuss the options with you, and make a recommendation—the choice we'd make in your shoes.

3. Get the job done.

Complete your project, with the right products, on time and to spec. We've got your back all the way, with support during installation and commissioning.

Tap into our expertise and talk to our friendly, expert team.

B | E | A | V | E | R

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