



VALVES INSTRUMENTS PLUS

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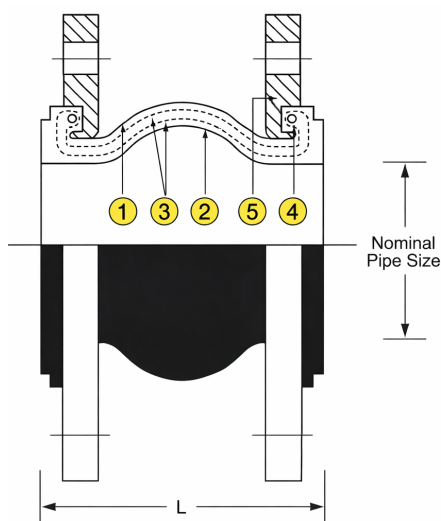
Rubber Bellows



Approval No.
2310920



VIP Product Code
00/0599



Issued 05/2026

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PN6 Flanged Untied EPDM Rubber Flexible Connectors

VIP Rubber pump flexible connectors are designed for installation onto vibrating equipment to reduce the transmission of noise and vibration to the attached pipeline system.

Specification

- **Working Temperature:** -10°C - 80°C
- **Max Working Pressure:** 6 Bar (Ambient)
- **Vacuum Rating:** 700 mmHg
- **Applicable Fluids:** Water, Warm Water, Sea Water, Air, Weak Acid
- **Test Pressure:** 1.5x Working Pressure (9 Bar Max)
- **Flanges Standard:** Drilled to BS4504 PN6

*VIP rubber pump flexible connectors should not be used at both their maximum working temperature and pressure simultaneously.

Part No.	Part	Material
1	Body (Outer Layer)	EPDM
2	Body (Inner Layer)	EPDM
3	Reinforcing Fabric	Nylon
4	Wire	Hard Steel Wire
5	Flanges	Galvanised Steel

VIP Part Code	Nominal Pipe Size	Neutral Length (L)	Axial Compression	Axial Elongation	Lateral Deflection	Angular Deflection
	mm	mm	mm	mm	(+/- mm)	(+/- Degrees)
00/0599/040	40	130	12	10	12	15
00/0599/050	50	130	12	10	12	15
00/0599/065	65	130	12	10	12	15
00/0599/080	80	130	12	10	12	15
00/0599/100	100	130	12	10	12	15

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Installation

Please refer to the VIP Rubber Bellows Installation Sheet for guidance as to the correct handling and installation of these flexible connectors.

For options such as alternative sizes, end fittings or materials, or to discuss a specific application requirement, please contact the VIP office.

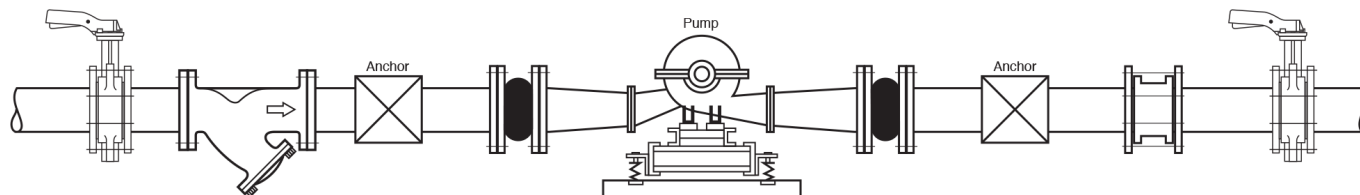


Table 1 - Rated Movement

Nominal Pipe Size		mm	32	40	50	65	80	100	125	150	200	250	300
		in	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
Travel Movement	Neutral Length	-	130	130	130	130	130	130	130	130	130	130	130
	Axial Compression	-	12	12	12	12	12	12	12	12	12	12	12
	Axial Elongation	-	10	10	10	10	10	10	10	10	10	10	10

Table 2 - Tied Recommendations

Tied units are recommended when the operating pressures achieve the following values:	Nominal Pipe Size	Operating Pressure
	15 to 100mm	8 Bar
	125 to 250mm	6 Bar
	300 to 350mm	4 Bar
	400mm & Above	2.5 Bar

Notes

- Higher temperatures affect movement and pressure. As temperature increases, rated value must be reduced accordingly.
- Pressures shown are recommended 'operating' - test pressure is 1.5 times 'operating'
- Vacuum rating is based on neutral installed length without external load. Products shall not be installed 'elongated' on vacuum applications.
- Rubber Bellows may operate in pipelines or equipment carrying fluids at evaluated temperatures and pressures.
- Normal precautions shall be taken to make sure these parts are installed correctly and inspected regularly.
- Precautions should be taken to protect personnel in event of leakage or splash.
- Bellows for fluids other than those above are available on request.
- EPDM Rubber Bellows are suitable for a maximum 40% ethylene glycol concentration. Consult VIP Technical department if your system has higher concentrations.

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