



VALVES INSTRUMENTS PLUS

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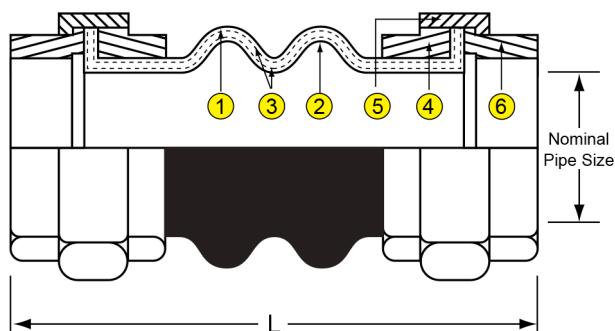
Rubber Bellows



Approval No.
2310920



VIP Product Code
00/0597



Issued 05/2026

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BSP Female 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:** 16 Bar (Ambient)
- **Vacuum Rating:** 500 mmHg
- **Applicable Fluids:** Water, Warm Water, Sea Water, Air, Weak Acid
- **Test Pressure:** 1.5x Working Pressure (24 Bar Max)
- **Connections:** BSP Female Ends

*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	Union Flange	Malleable Iron (Galv)
5	Union Nut	Malleable Iron (Galv)
6	Union Screw	Malleable Iron (Galv)

Operating Temperature against Operating Pressure					
Operating Temperature	Ambient	50°C	60°C	70°C	80°C
Max Operating Pressure (Bar)	16	9.6	7.5	6.2	5.0

VIP Part Code	Nominal Pipe Size	Neutral Length (L)	Axial Compression	Axial Elongation	Lateral Deflection	Angular Deflection
	mm	mm	mm	mm	(+/- mm)	(+/- Degrees)
00/0597/020	20	165	22	6	22	30
00/0597/025	25	175	22	6	22	30
00/0597/032	32	186	22	6	22	30
00/0597/040	40	186	22	6	22	30
00/0597/050	50	200	22	6	22	20

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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.

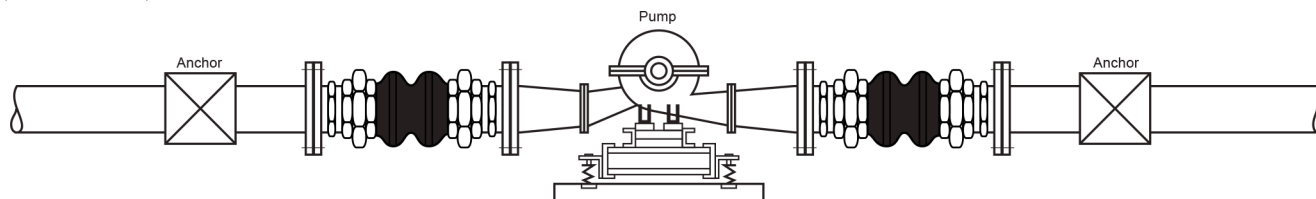


Table 1 - Rated Movement

Nominal Pipe Size		mm	20	25	32	40	50
		in	3/4	1	1 1/4	1 1/2	2
Travel Movement	Neutral Length	-	165	175	186	186	200
	Axial Compression	-	22	22	22	22	22
	Axial Elongation	-	6	6	6	6	6

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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