



**HAND-CAFTED &
MOLDED RUBBER
EXPANSION JOINTS &
BELLOWS**

Call us now on
9820808944 or write to
us at
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HAND-CASTED & MOLDED RUBBER EXPANSION JOINTS & BELLOWS

FILLED ARCH BUTYL RUBBER BELLOWS

A filled-arch butyl rubber bellow is a type of expansion joint used in piping systems to accommodate movement, reduce vibration, and compensate for thermal expansion. The term describes three key features of the component: its construction material, its internal shape, and its primary function.



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MULTIPLE ARCHED RUBBER BELLOWS

Multiple Arched Rubber Bellows are used exactly as their single sphere counterparts. However, its unique shape and longer length allows greater compression, elongation, lateral and angular movement. This minimizes water hammer, increases noise suppression and dampens hydraulic surge and shock in any system.





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STUB-END RUBBER CONNECTORS

A stub-end rubber connector is a flexible pipe fitting that uses a lap joint stub end to provide a cost-effective, durable, and easily disassembled connection. Unlike rigid flange systems, the rubber component offers flexibility, while the stub end allows for simple, rotatable bolt alignment, making maintenance easier.



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METAL FLANGED BELLOWS

A metal flanged bellow is an expansion joint designed to absorb movements and vibrations in piping and ducting systems, particularly in high-temperature and high-pressure applications. It consists of a flexible, corrugated metal element (the bellows) with flanged end connections for easy installation. These components are essential for maintaining the integrity and safety of systems by compensating for thermal expansion and contraction.



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FOOD & PHARMA GRADE SILICONE

Food and pharma-grade silicone bellows are flexible, accordion-shaped components designed for use in hygienic and sensitive environments where product purity is critical. They provide a reliable, contamination-free connection between processing equipment while accommodating movement, vibration, and thermal expansion.





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EPDM BELLOWS WITH P.T.F.E LINING

An EPDM bellows with a polytetrafluoroethylene (PTFE) lining is a flexible pipe connector designed to withstand both mechanical stress and highly corrosive chemicals. This combination pairs the excellent chemical resistance of a PTFE inner layer with the strong mechanical flexibility of an EPDM (ethylene propylene diene monomer) rubber body.

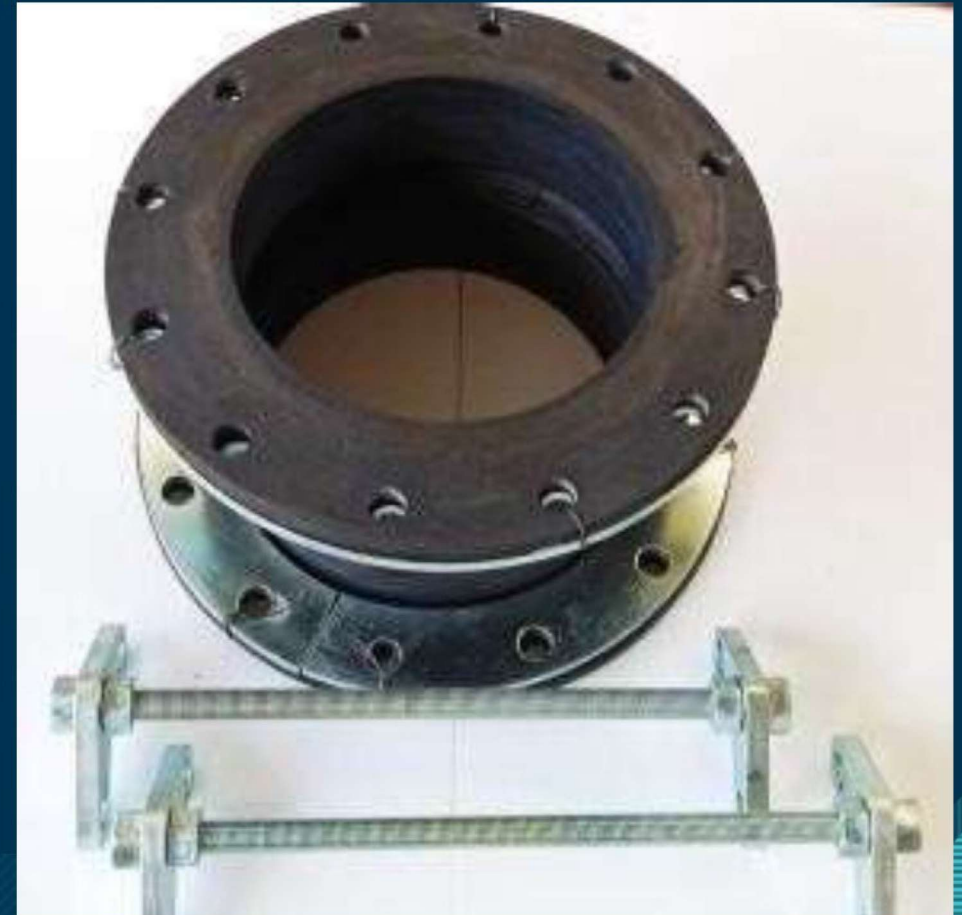




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SINGLE ARCH RUBBER BELLOWS

Single Arch Rubber Bellows are flexible connectors for pipelines and equipment that absorb vibration, dampen noise, and compensate for axial, lateral, and angular movements caused by thermal expansion and misalignment. They feature a self-cleaning, spherical, single arch design for uniform pressure distribution, are reinforced with fabric, and use floating steel flanges for easy installation. These bellows protect equipment in applications like HVAC, water systems, industrial plants, and power generation.





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SEAMLESS ELASTOMERIC SEALS

Seamless elastomeric seals are flexible, rubber-like sealing components used in various industries to prevent fluid or gas leakage between mating surfaces. Unlike traditional seals that may have joints or seams, seamless designs are continuous, eliminating potential leak paths and offering superior performance. Their inherent elasticity allows them to conform to irregular surfaces and maintain a tight barrier even under pressure, movement, and extreme temperatures.

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CUSTOMIZED BELLOW PATTERNS

Customized bellow patterns are precisely engineered flexible components designed for specific industrial applications that cannot be met by standard, off-the-shelf options. The customization is not a matter of pure aesthetics, but is based on modifying key design parameters, materials, and manufacturing processes to meet exact operational requirements for size, movement, media, pressure, and temperature.





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PTFE BELLOWS

PTFE bellows are flexible, corrosion-resistant conduits made from polytetrafluoroethylene (PTFE), also known as Teflon, designed to absorb movement, vibration, and misalignment in piping systems. Key features include exceptional chemical inertness, a wide operating temperature range (up to 260°C), high flexibility, and FDA approval, making them ideal for harsh industrial environments, particularly in the chemical, pharmaceutical, and food processing industries.



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CORRUGATED DUST SEAL PROTECTOR

A corrugated dust seal protector is a specific type of protective device designed to prevent the ingress of dust, dirt, and other contaminants into mechanical or electronic systems, often while accommodating movement.

The term "corrugated" refers to a design feature—a pleated or ribbed structure—which is typically found in the shape of a flexible material like rubber or plastic. This shape allows the seal to expand, compress, and flex with the movement of the protected part, all while maintaining a continuous and effective seal.

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BELLOWS FOR DUCTING

Bellows for ducting, often called duct expansion joints or compensators, are flexible components installed within ductwork systems (like those in HVAC and industrial ventilation) to manage movements and protect the system's structural integrity.

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MOLDED SILICONE BELLOWS

Molded Silicone Bellows are flexible, accordion-like protective covers made from high-grade silicone rubber. Their convoluted (ridged) design allows them to easily expand, compress, and bend, making them ideal for sealing moving parts in machinery and compensating for movement.

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FLANGED PIPE CONNECTOR

A Flanged Pipe Connector, or pipe flange, is a rigid, projecting rim, edge, or collar used to connect pipes to each other, to valves, or to various pieces of equipment, creating a secure and leak-proof joint. Flanged connections are the second most common joining method after welding, offering the critical advantage of being easily disassembled for maintenance, repairs, or system alterations.

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BELLOWS WITH CONTROL UNIT

They are set to restrict the maximum allowable extension or compression of the bellows (often called Limit Rods or Stops). This prevents the bellows from being over-extended or over-compressed, which could lead to premature failure.

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**OUR
MANUFACTURING
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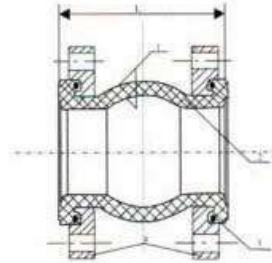
AMRUTHA VALVE TECH PVT LTD
509/510, 'A' Wing 4th Floor, Orchard Mall,
Royal Palms Estate, 169, Aarey Milk Colony
Road. Goregaon (E), Mumbai - 400065

+91 98208 08944

info@amruthavalvetech.com

sales@amruthavalvetech.com

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JOINTS & BELLOWS**



主要连接尺寸 Main connection dimensions

公称通径DN Nominal diameter DN		长度 Length L (mm)	轴向位移 Axial displacement		横向位移 Lateral displacement (mm)	偏转角度 Deflexion angle (a1+a2)
DN	inch		伸长 Extension	压缩 Compression		
32	1.25	95/130/152	6	9	9	15
40	1.5	95/130/152	6	10	9	15
50	2	105/130/152	7	10	10	15
65	2.5	115/130/152	7	13	11	15
80	3	130/135/152	8	15	12	15
100	4	130/135/150	10	19	13	15
125	5	130/152/165	12	19	13	15
150	6	130/152/180	12	20	14	15
200	8	130/152/180/200/210	16	25	22	15
250	10	130/200/230/240	16	25	22	15
300	12	130/200/245/260	16	25	22	15
350	14	200/255/265	16	25	22	15
400	16	200/255/265	16	25	22	15
450	18	200/255/265	16	25	22	15
500	20	200/255	16	25	22	15
600	24	200/260	16	25	22	15
700	28	260	16	25	22	15
800	32	260	16	25	22	15
900	36	260	16	25	22	15
1000	40	260	18	26	24	15
1200	48	260	18	26	24	15

注1、特殊要求可按用户图纸制作，法兰标准采用GB/T9115.1-2000，可选配(GB、HG、ANSI、DIN、BS、EN、JIS

等)法兰标准生产。橡胶球体可做天然橡胶、三元乙丙橡胶、氯丁橡胶、丁基橡胶、丁晴橡胶、氟橡胶等。

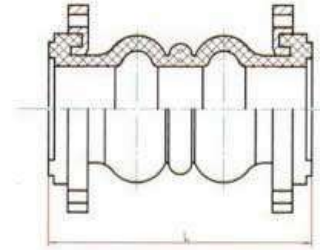
2、悬空给水使用DN200以上产品，管道必须有固定支撑或固定托架，否则产品应安装防拉脱装置。

3、用户使用橡胶接头，对应法兰应是阀门法兰或符合GB/T9115.1(RF)法兰

Note: 1, special requirements can be made according to user drawings, flange standard GB/T9115.1-2000, optional (GB, HG, ANS, DIN, BS, EN, JIS) standard production of flange. Rubber body to NR, EPDM, CR, IIR, NBR, VITON etc

2, the use of suspended water supply above DN200, the pipe must be fixed or fixed support bracket, or pull of device shall be installed

3, When using rubber joints, the corresponding flange should be the valve flange or GB/T9115.1 (RF) flange



主要连接尺寸 Main connection dimensions

公称直径DN Nominal diameter DN		长度 Length (L)	轴向位移 Axial displacement		横向位移 Lateral displacement (mm)	偏转角度 Deflexion angle (a1+a2)
DN	inch		伸长 Extension	压缩 Compression		
40	1.5	165	30	50	45	40°
50	2	165	30	50	45	40°
65	2.5	175	30	50	45	40°
80	3	175	30	50	45	40°
100	4	225	35	50	40	35°
125	5	225	35	50	40	35°
150	6	225	35	50	40	35°
200	8	325	35	60	35	30°
250	10	325	35	60	35	30°
300	12	325	35	60	35	30°
350	14	325	35	60	35	30°
400	16	340-400	35	60	35	30°
450	18	340-400	35	60	35	30°
500	20	340-400	35	60	35	30°
600	24	340-400	35	60	35	30°

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 2、悬空给水使用DN200以上产品，管道必须有固定支撑或固定托架，否则产品应安装防拉脱装置。
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