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Characteristics and Benefits of Rubber Bellows by James Blee

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Rubber bellows work as extension joints of rotating gears like siphon, pipelines and chillers. They are extremely flexible which helps in angular, lateral and axial movement. They are thin-walled that helps in decreasing the noise and vibration to the minimum possible. They found their wide use in Fluid Filling System, Chemical Plants, Hydraulic Ram Protections and adjustments in the Duct line. bellows are not too resistant to external factors like temperature, ozone, uv-rays of the sun etc. They change their dimensions owing to temperature and pressure. They should be tightly fixed to something to minimize their expansion as much as possible.

The bellows are generally made of Rubberized Canvas, Rubber and Rubberized Synthetic Fibers. Some other substances are also added with them to make them as hard as possible. Silicone and neoprene are the two most common polymers that are added with them as stiffener. They can be made into any desired shape. They are quite capable of working in both acidic and alkaline conditions and can withstand up to 250 degree Centigrade.

There are in general, two distinct varieties of rubber bellows are found. The first of them is the single arch extension bellows. They are quite durable in conditions like 40 bar temperature or 600 degree centigrade. They can be put into use in exhaust connectors of vehicles, heating and ventilating systems, nuclear fusions and etc. Some of it features are absorbing tremor and shock, reduction of noise up to a certain level and removal of pressure due to expansion and contraction. Then is the double arch extension bellows which has elastomeric neoprene as its chief component. All the features found in the above variety of bellows are again found in them but only to a greater level.

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