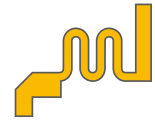


# Valve bellow

Type: FV

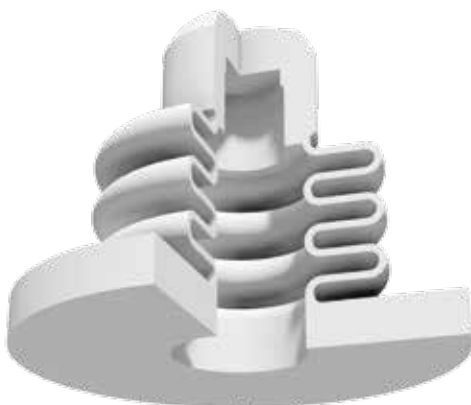


The FV type bellow can be manufactured both with sharp and round folds. This makes it adaptable to each separate application requirement. Round folds are most suited for applications with medium pressure stresses and where good cleanability is a specification. Sharp folds are better suited for low pressure stresses and high stroke frequencies.

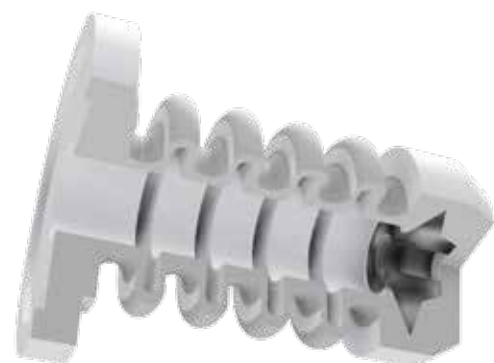
This bellow is mainly used as a pump element in metering pumps, control valves and shut-off valves and also in filling lines in chemical and process engineering, mechanical engineering and the food industry. The operating temperature range lies between  $-20\text{ }^{\circ}\text{C}$  and  $+150\text{ }^{\circ}\text{C}$ .

For increased resistance, the bellow head can be manufactured from a more pressure-resistant PTFE compound such as PTFE + glass fiber. Threaded bushings can be screwed or sintered into the bellow head for the mounting of shafts.

## Examples of construction designs



- round folds, with threaded bushing
- with taper connection



- with sintered stainless steel bushing
- PTFE compound head



Materials	Typical characteristics	Operating conditions
CCN-01 (PTFE pure)	Low gas permeability, universal chemical resistance, good reverse bending strength	Standard material, food environments
CCN-02 (PTFE modified)	Very low gas permeability, universal chemical resistance	For high requirements on gas tightness and surface quality
CCN-03 (PTFE modified)	Very good reverse bending strength, universal chemical resistance	For applications with high requirements on reverse bending strength
Conductive PTFE	Electrostatic dissipative	Where ATEX applies (ex-areas) limited reverse bending strength

### Application limitations

Pressure 0.25 bar to 2 / 5 bar (abs.) acc. to fold type

Temperature - 20 °C to + 150 °C

The application limitations stated are interdependent and must not occur simultaneously.

### Connection types

Flange end (standard)

Further customized adjustments are possible.

## Technical questionnaire for bellows

For a fast order of the correct type of bellow, we have prepared a technical questionnaire for your use.

Please enter your specifications and requirements in the questionnaire and send it to us. A template can be found on our website under the menu tab **Download**. We would also be happy to send you the document per e-mail. Please do not hesitate to contact our staff. We will be pleased to provide advice if you have any questions.