

Bellow with round folds

Type: FR

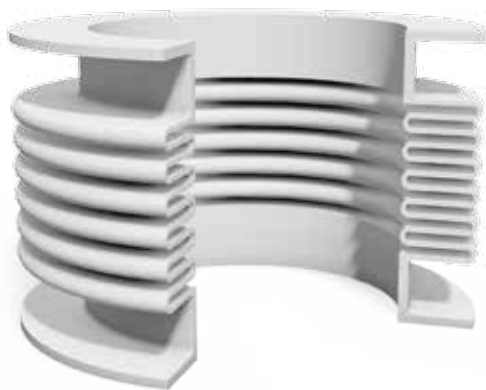


The FR type bellow with round folds is a machined product. It possesses high rigidity and allows only short strokes. This makes it suitable mainly for applications with medium pressure stresses.

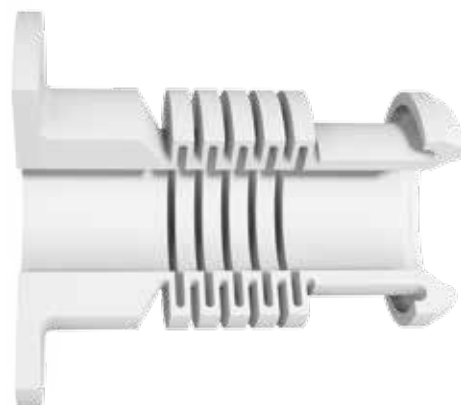
Advantages of this bellow are the stable walls and very good cleanability. In addition, it can be mounted both vertically and horizontally. Frequently encountered connection types are flange, thread, and ball/socket connections. Further connections depending on customer-specific modifications are possible.

Areas of application are expansion and vibration compensation between pipelines, protection of shafts and rods in aggressive environments and also in fluid streams. This is why the bellow is used foremost in chemical and process engineering and mechanical engineering applications and also in the food and pharmaceutical industry. The temperature range lies between $-120\text{ }^{\circ}\text{C}$ and $+150\text{ }^{\circ}\text{C}$.

Examples of construction designs



- round folds
- double-sided flanges



- round / angular folds
- 1 side: flanged end
- 2nd side: tri-clamp end



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 to 5 bar (abs.)
Temperature	– 120 °C to + 150 °C

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

Connection types

Flange end (standard)	Ball socket end
Threaded end	Also completely assembled with stainless steel flanges

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. The template can be found on our website under the menu item **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.