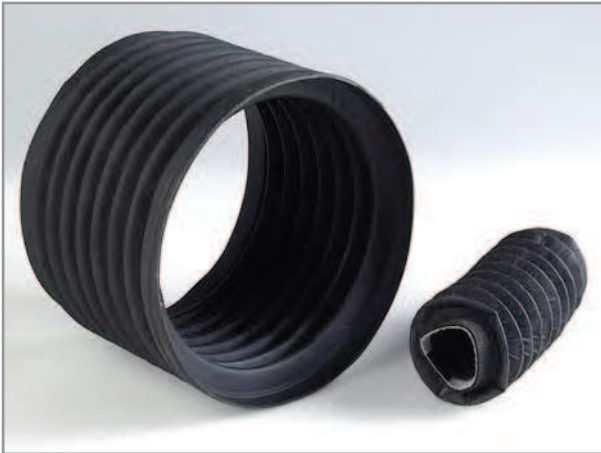


# FABRIC BELLOWS

If bellows are subject to especially heavy wear, high pressure conditions or high temperatures up to 200°C, fabric bellows can be used.



Fabric bellow coated with synthetic material

Typical fields of application are piston rods with high ambient temperatures, or cardan shafts. Fabric bellows consist of a laminated structure, whereby the supporting fabric is coated with a synthetic material.

In contrast to the rubber disk bellows, the fabric bellows have a structural reinforcement which withstands the mechanical forces acting. The external protective effect of the rubber is maintained completely.

Nevertheless, the supporting fabric changes the character of the surface, so that the smoothness of the rubber disk type is lost.



Fabric bellow coated with Alu/Glass fibre coating

## Material

Fabric bellows are delivered as standard in CR rubber coated fabric. All materials can be laminated with Teflon foil.

A speciality are fabric bellows made from leather and carbon fibre with Aramid or Alu/Glass fibre.

## Types

The fabric bellows will be normally produced in round shapes. As an alternative, square, rectangular or oval profiles can also be produced.

The bellows are fastened like the rubber disk bellows.

## Construction

Calculation formulae (material with 1 mm thickness)

$$L_{\max} = FZ \times FB \times 1,4$$

$$L_{\min} = FZ \times 6$$

$$FB = \frac{(AD - ID)}{2}$$

$$FZ = L_{\max} : FB : FZ$$

## Legend

FB	Fold width/depth
FZ	Number of folds
$L_{\min}$	Minimum Compression of bellow
$L_{\max}$	Maximum extension of bellow
AD	Outer diameter
ID	Inner diameter



Fabric bellow - sample of larger size

## Dimension

We manufacture fabric bellows in the standard sizes with inside diameters of 30 to 2900 mm and an outside diameter of 50 to 3000 mm.

SERVICE & QUALITY 02

STANDARD BELLOWS 08

SAUWRAI BELLOWS 18

SPECIAL BELLOWS 31

BACKWALL SYSTEMS 32

GLADIATOR STEEL COVERS 38

ROLLER SYSTEMS 46

DURASPRING SPIRAL SPRINGS 58

VIEWING SYSTEMS 68