



HENNLICH

Moderne Dichtungstechnik

...mit dem Beratungsplus!

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RUBBER-DISK-BELLOWS

express-program



RUBBER DISK BELLOWS

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HENNLICH – express rubber disk bellows – quick and flexible

Our rubber disk bellow is a high graded, versatile applicable bellow. Material, fabrication-technique and shaping are in an exceptional position concerning the whole product line of bellows.

Completely sealed

As the name reveals, rubber disk bellows are made of single disks, which are composed of CSM rubber. These single disks are – alternately on the inner- and outside-diameter – vulcanized. The material shows a symbiotic homogenous connection, which is unresolvable and completely sealed. Flanges or collars can be planted on both ends.

Enormous tensibility

Through special construction, the material is not folded. Compressed on block, sheet lies directly on sheet. Thus the rubber bellow got the smallest possible L min and according to the numbers of folds, and depth of the folds the greatest possible L max. In most cases a valuable advantage.



Attractive design

After the process of vulcanizing, the outer contour of the bellow is grounded. The result is a smooth and regular outer contour. Through the vulcanizing a circular zone with double wall results in each single fold depth and fold peak. Therefore the rubber bellow folds exactly and stays form stable.

The material

CSM-rubber 1 mm – this material can be bent infinitely but does not infract. Further advantages are its high weather resistance as well as its sufficient proof against oil- and chemicals. The admissible operating temperature lies between -20°C and +110°C.

Typical applications

Due to the technical advantages, rubber disk bellows are preferably used as protective covering for:

- Hydraulic- and pneumatic bars
- Screwjack- and circular racks as well as
- Processing- and measuring machines

The machine components are protected reliably from:

- Dust and dirt
- Wood- and metal shavings
- Fluids like water, oil, emulsions und chemicals

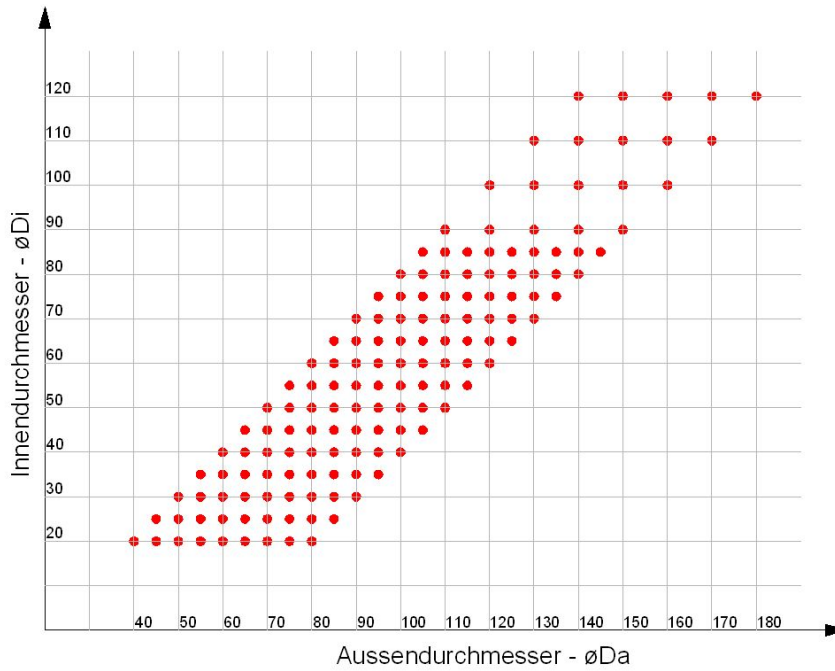
Beyond that, rubber bellows prevent humans from being hurt by moving machine parts. Due to the option possibility of different sizes and the aesthetic design, rubber bellows are applied in more application areas for example electrical engineering, medical technology and chemical industry.



RUBBER DISK BELLOWS

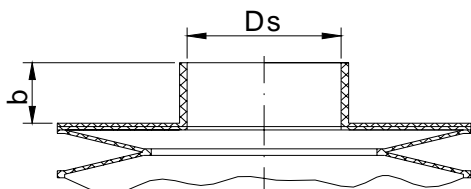
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Available Sizes – The building set

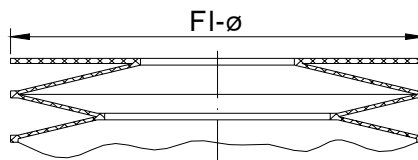


The connections – versatile and flexible

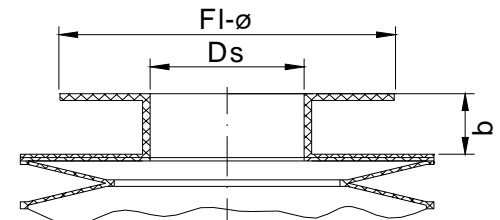
There are 3 different connection types:



COLLAR – for attachment with hose clip



FLANGE – made of the last disk. Attached through metalring and countersunk-head screws

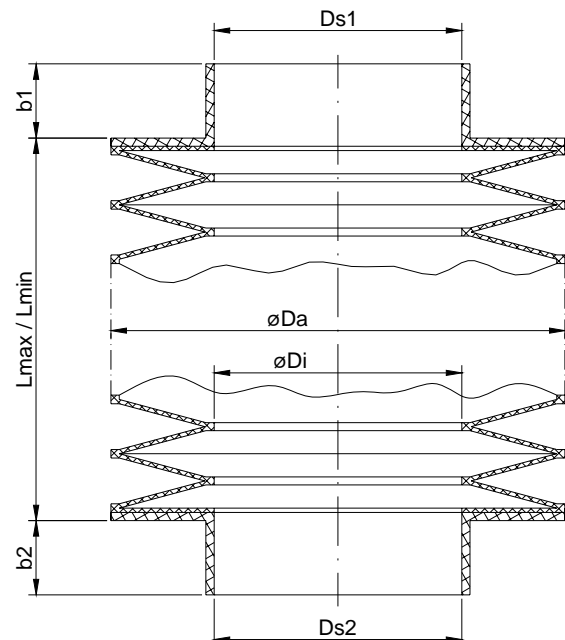


DISTANCE-FLANGE – Attached through metal flange and screws

The formulas - for your responsible shelter

- Fold depth Ft = $(Da - Di) : 2$
- Fold number Fz = $Lmax : Ft$
- Minimal Length Lmin = $Fz \times 2,5$
- Maximal Length Lmax = $Hub + Lmin$

- Di = inner diameter
- Da = outer diameter
- Lmax = maximal length
- Lmin = minimal length
- Ds1 = collar diameter 1
- b1 = collar length 1
- Ds2 = collar diameter 2
- b2 = collar length 2
- FI-ø = flange diameter 1 or 2



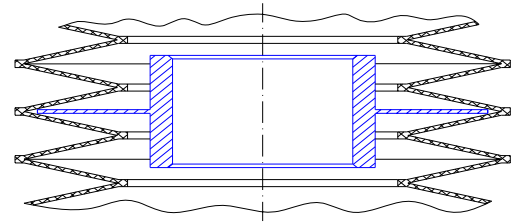


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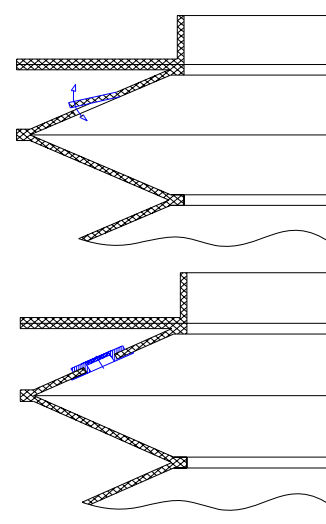
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Accessory – “pimp up” my rubber bellow

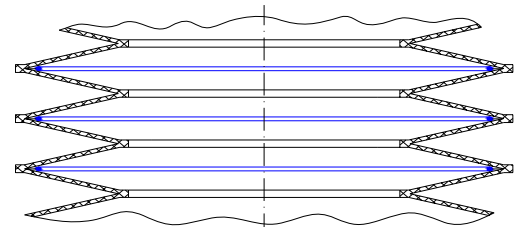
Sliding shoes – are used under horizontal and slanted integrated installation conditions. They protect the rubber disk bellow from being destroyed by the spindle.



Venting Valve, stamped – in huge bellows and in bellows that work with fast lift, a lot of air is displaced and aspirated. Rubber disk bellows are sealed. For this reason there has to be an offset for the volume. This happens through one or more embossed venting valves.



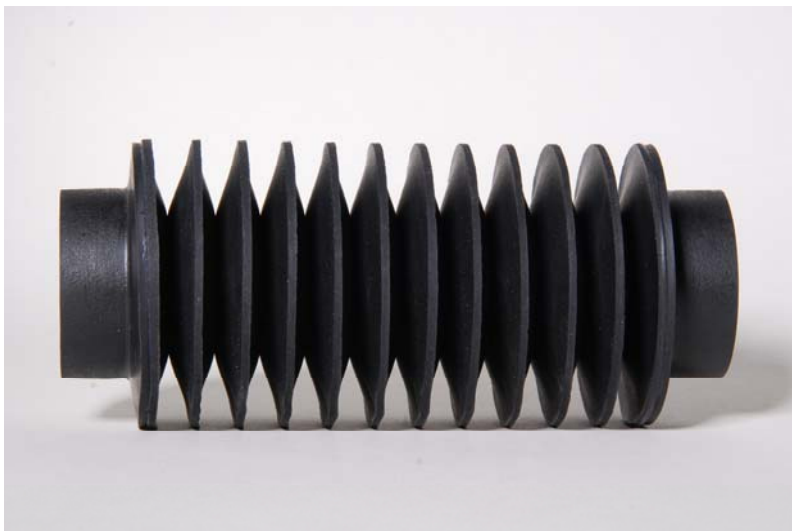
Venting Sieve – instead of a stamped venting valve. A venting sieve can also be placed in the rubber disk bellow. Dirt (>1 mm) is prevented from getting into the bellow.



Wire rings – gives the bellow more stability; therefore very long bellows can be implemented vertical.

Pullout locks – provide a regular pullout of the rubber disk bellow.

In case of need, do not hesitate to contact our experienced technicians. We will be pleased!



Delivery time – minimum 48 hours

After vulcanization, the bellow has to „rest“. We can deliver the bellow after the material reached the gauge block. This means a minimum delivery time of 48 hours. Delivery time also depends on the raw material on stock and on the average utilization of our express production. We'll likely make you a free offer.



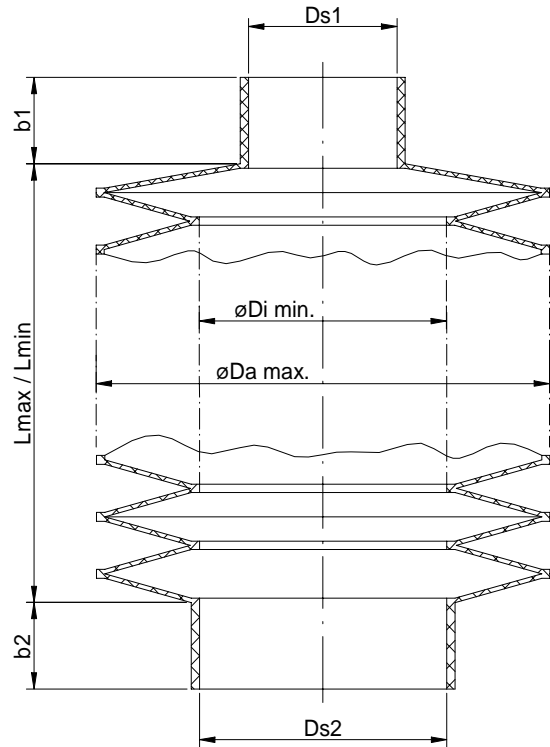
BELLOWS - questionnaire

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Company _____
 Mr. / Mrs. _____
 street _____
 ZIP code _____ town _____
 telephone _____ fax _____
 e-mail _____

DIMENSION in mm

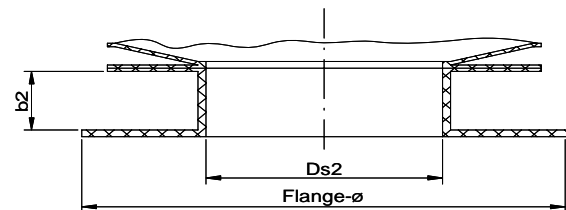
Lmax _____ \varnothing Di min. _____
 Lmin _____ \varnothing Da max. _____
 stroke _____
 Connection 1: Ds1 _____ b1 _____
 Connection 2: Ds2 _____ b2 _____
 Flange- \varnothing _____



PIECES _____ (prototype / series / spare part)

WHAT WILL BE PROTECTED?

rod \varnothing _____ mm
 shaft \varnothing _____ mm \Rightarrow rpm _____
 jackscrew \varnothing _____ mm \Rightarrow rpm _____



Situation of Installation?

horizontal
 vertical
 diagonal

APPLICATION?

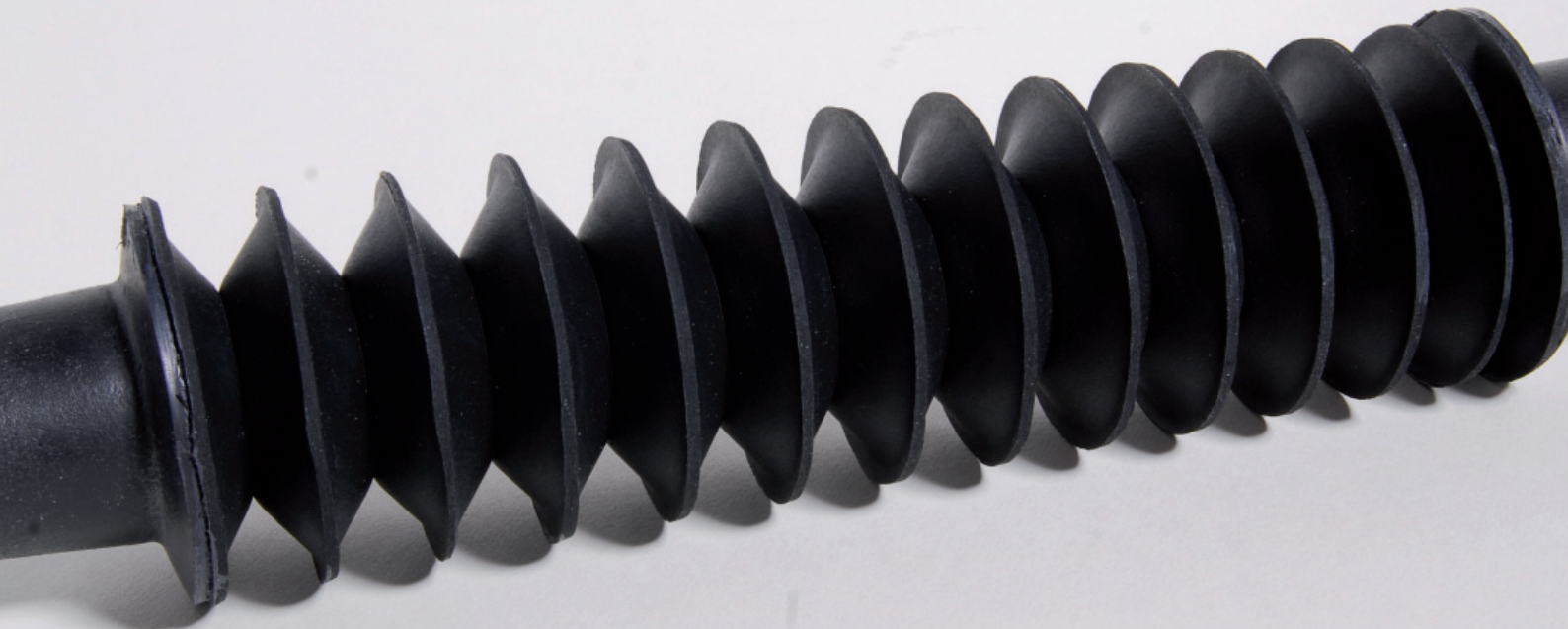
dust shield
 water shield
 other _____

DETAILS ?

temperature T= _____
 pressure p= _____
 welding splashes
 oil / grease
 weather / UV-light



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Further informations you will find in our detailed catalogues...

...or at: www.hennlich.at

Bellows-stocklist

Way covers

Expansion joints

Loading equipments

Tube systems

Gaskets

braided packings

Seals for hydraulic and pneumatic

O-rings and backrings

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