

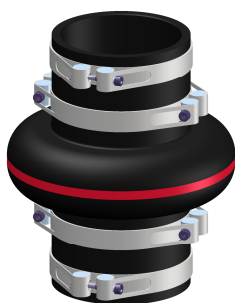


## DOCUMENTATION SHEET

### Rubber Bellows

#### Type 3K Red

3K RED



### General

Our rubber bellows are made from various elastomers and provide the flexible element in pipe work that is indispensable in today's technically advanced plant and machinery spaces.

By using the best quality proven rubber compounds and a construction based on many years of experience, our rubber bellows are produced to a high quality standard to guarantee maximum safety and performance.

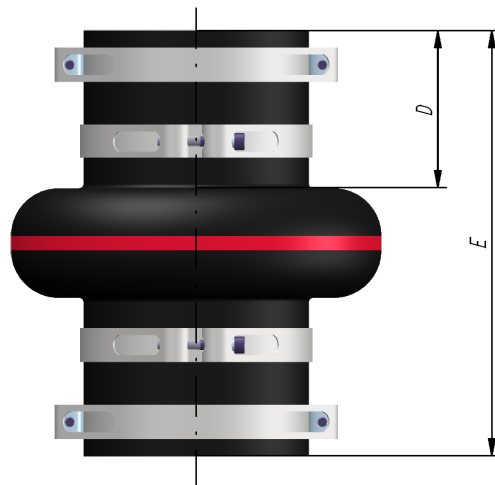
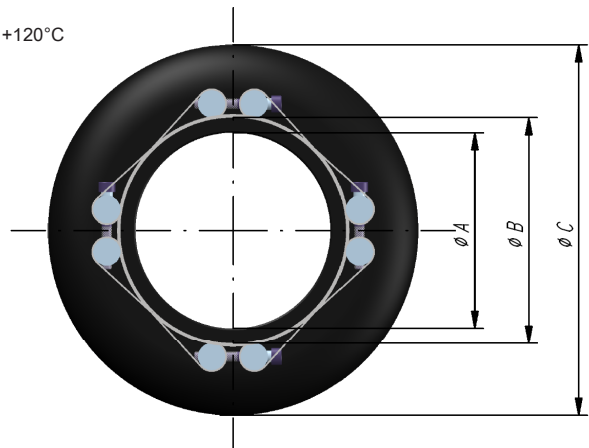
Rubber bellows are used in various fields of industry like shipbuilding, offshore, dredging, power plants, chemical industry, water works etc.

The rubber bellows provide:

- Compensation of thermal or mechanical movement of pipe work in axial, lateral and/or angular directions.
- Absorption and isolation of vibration combined with damping of pipe work borne sound transmission.
- Reduction of pressure pulses in pipe work.
- Compensation for pipe work misalignment on flexibly mounted installations.

Our program consists of rubber bellows with flanges, according all known standards as well as special connections, and rubber and silicone bellows for installation with hose clamps.

Maximum temperature: +120°C



### DIMENSIONS



# Rubber Design

vibration and noise control

As an addition to the flanged bellow range our 3K and 3K2 rubber bellows have been designed especially to provide small, low weight bellows which are both very flexible and simple to install.

The 3K ranges accommodate misalignment, axial and lateral pipe work movements and dramatically reduce the transmission of noise, vibration and shock.

High tensile strength aramide cord plies combined with proven synthetic rubber mixes guarantee maximum reliability and an extended working life.

The burst pressure safety factor is 5 times the working pressure of 4 Bar. The minimum work pressure is 70 kPa ( abs ) and can be lowered by fitting a vacuum support ring. Average installed insulation is about 25 dB, a figure which is further improved by compressed installation.

| 3K<br>RED<br>RING     | Bellows<br>dimensions |          |         |         |         | Allowable<br>Displacement |       |      | Weight | Min.     | Max. | Advised<br>Hose<br>clamp |
|-----------------------|-----------------------|----------|---------|---------|---------|---------------------------|-------|------|--------|----------|------|--------------------------|
|                       |                       |          |         |         |         |                           |       |      |        | Pressure |      |                          |
|                       |                       |          |         |         |         | Ax.                       | Lat.  | Ang. |        | ( abs )  |      |                          |
| Art.nr without clamps | ØA<br>mm              | ØB<br>mm | C<br>mm | D<br>mm | E<br>mm | mm                        | mm    | °    | kg     | kPa      | MPa  |                          |
| KV025.0K1000          | 25,0                  | 44       | 82      | 44      | 140     | -15/+7                    | +/-10 | 7    | 0,8    | 70       | 0,4  | 30-40                    |
| KV026.9K1000          | 26,9                  | 45       | 84      | 44      | 140     | -15/+7                    | +/-10 | 7    | 0,8    | 70       | 0,4  | 36-45                    |
| KV030.0K1000          | 30,0                  | 48       | 87      | 44      | 140     | -15/+7                    | +/-11 | 7    | 0,8    | 70       | 0,4  | 40-50                    |
| KV032.0K1000          | 32,0                  | 50       | 95      | 44      | 140     | -15/+7                    | +/-11 | 7    | 0,8    | 70       | 0,4  | 40-50                    |
| KV033.7K1000          | 33,7                  | 52       | 97      | 44      | 140     | -15/+7                    | +/-12 | 7    | 0,9    | 70       | 0,4  | 45-55                    |
| KV038.0K1000          | 38,0                  | 57       | 108     | 44      | 140     | -15/+7                    | +/-12 | 7    | 0,9    | 70       | 0,4  | 50-60                    |
| KV040.0K1000          | 40,0                  | 59       | 111     | 52      | 160     | -19/+9                    | +/-14 | 7    | 0,9    | 70       | 0,4  | 50-60                    |
| KV042.4K1000          | 42,4                  | 61       | 115     | 52      | 160     | -19/+9                    | +/-14 | 7    | 0,9    | 70       | 0,4  | 55-65                    |
| KV044.5K1000          | 44,5                  | 63       | 117     | 52      | 160     | -19/+9                    | +/-14 | 7    | 0,9    | 70       | 0,4  | 55-65                    |
| KV048.3K1000          | 48,3                  | 67       | 121     | 52      | 160     | -19/+9                    | +/-14 | 7    | 0,9    | 70       | 0,4  | 60-70                    |
| KV050.8K1000          | 50,8                  | 69       | 124     | 52      | 160     | -19/+9                    | +/-14 | 7    | 1,0    | 70       | 0,4  | 60-70                    |
| KV054.0K1000          | 54,0                  | 73       | 137     | 52      | 160     | -19/+9                    | +/-14 | 7    | 1,0    | 70       | 0,4  | 65-75                    |
| KV057.0K1000          | 57,0                  | 76       | 140     | 52      | 160     | -19/+9                    | +/-14 | 7    | 1,2    | 70       | 0,4  | 70-80                    |
| KV060.3K1000          | 60,3                  | 78       | 142     | 62      | 180     | -19/+9                    | +/-14 | 7    | 1,3    | 70       | 0,4  | 70-80                    |
| KV063.5K1000          | 63,5                  | 81       | 145     | 62      | 180     | -19/+9                    | +/-14 | 7    | 1,3    | 70       | 0,4  | 75-85                    |
| KV076.1K1000          | 76,1                  | 94       | 158     | 62      | 180     | -19/+9                    | +/-14 | 7    | 1,4    | 70       | 0,4  | 85-95                    |
| KV088.9K1000          | 88,9                  | 107      | 171     | 85      | 225     | -20/+10                   | +/-15 | 7    | 1,7    | 70       | 0,4  | 100-110                  |
| KV101.6K1000          | 101,6                 | 121      | 195     | 90      | 250     | -25/+12                   | +/-16 | 7    | 2,1    | 70       | 0,4  | 115-125                  |
| KV108.0K1000          | 108,0                 | 128      | 212     | 90      | 250     | -25/+12                   | +/-16 | 7    | 2,5    | 70       | 0,4  | 120-130                  |
| KV114.3K1000          | 114,3                 | 134      | 219     | 90      | 250     | -25/+12                   | +/-16 | 7    | 2,5    | 70       | 0,4  | 125-135                  |
| KV115.8K1000          | 115,8                 | 135      | 218     | 90      | 250     | -25/+12                   | +/-16 | 7    | 2,5    | 70       | 0,4  | 130-140                  |
| KV127.0K1000          | 127,0                 | 146      | 229     | 90      | 250     | -25/+12                   | +/-16 | 7    | 2,6    | 70       | 0,4  | 130-140                  |
| KV133.0K1000          | 133,0                 | 154      | 236     | 90      | 250     | -25/+12                   | +/-16 | 7    | 2,7    | 70       | 0,4  | 145-155                  |
| KV139.7K1000          | 139,7                 | 160      | 243     | 90      | 250     | -25/+12                   | +/-16 | 7    | 2,9    | 70       | 0,4  | 155-165                  |
| KV168.3K1000          | 168,3                 | 187      | 272     | 90      | 250     | -30/+14                   | +/-21 | 7    | 3,3    | 70       | 0,4  | 180-190                  |

TABLE

#### Remark

Rubber bellows reinforced with aramide cord.

#### Pressure

The maximum working pressures are guaranteed by using the recommended power clamps in steel ( galvanized ) or stainless steel according to the table.



TYPE APPROVAL

3K RED



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