



## DOCUMENTATION SHEET

### Rubber Bellows

#### Type 3K Blue

3K BLUE

#### 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.

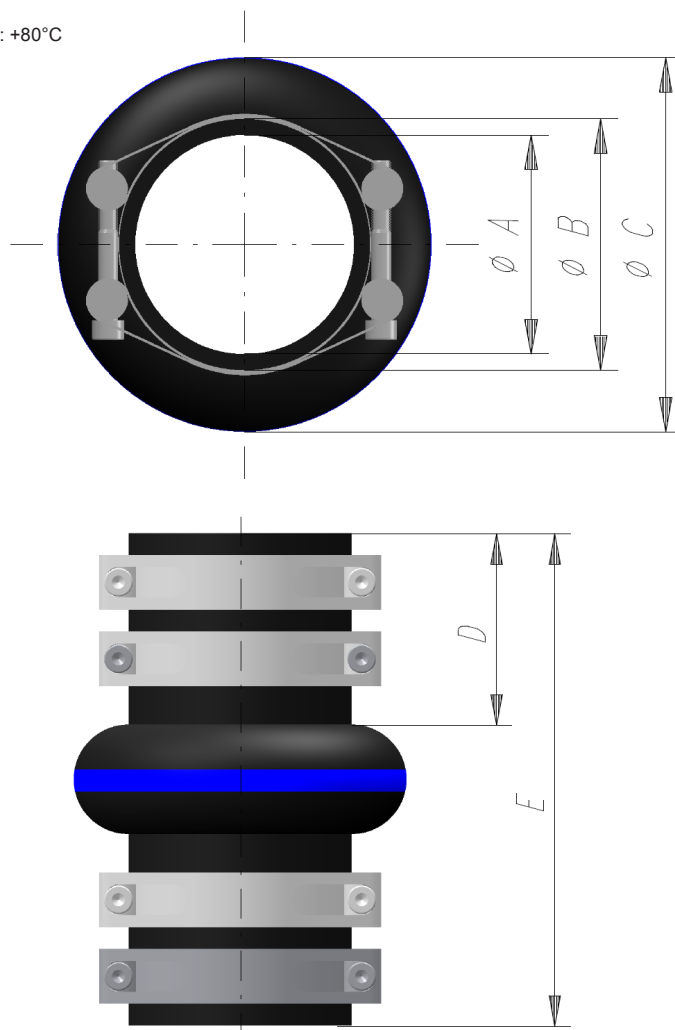
Rubber bellows are used in various fields of industry like shipbuilding, offshore, dredging, power plants, chemical industry, water works etc.

The rubber bellows provide:

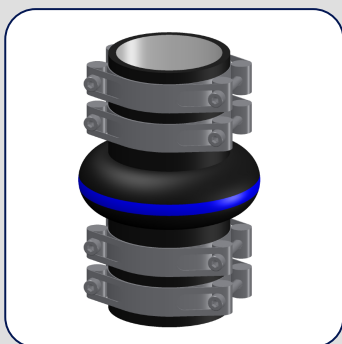
- Compensation of thermal or mechanical movement of pipe work in axial, lateral and/or angular directions.
- Absorption and isolation of vibration combined with damping of pipe work borne sound transmission.
- Reduction of pressure pulses in pipe work.
- Compensation for pipe work misalignment on flexibly 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: +80°C



DIMENSIONS





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 BLUE

3K BLUE RING	Bellows dimensions					Allowable Displacement			Weight Min. Max.		Advised	
	ØA	ØB	C	D	E	Axial	Lat.	Ang.	kg	kPa	MPa	Hose clamp
Art.nr without clamps	mm	mm	mm	mm	mm	mm	mm	°				
KV025.0W1000	25,0	35	85	55	140	-15/+7	+/-10	7	0,2	70	0,4	40
KV032.0W1000	32,0	45	94	55	140	-15/+7	+/-11	7	0,3	70	0,4	45
KV033.7W1000	33,7	47	96	55	140	-15/+7	+/-12	7	0,3	70	0,4	45
KV038.0W1000	38,0	50	116	50	140	-15/+7	+/-12	7	0,3	70	0,4	45
KV042.4W1000	42,4	55	123	60	160	-19/+9	+/-14	7	0,4	70	0,4	55
KV044.5W1000	44,5	58	124	60	160	-19/+9	+/-14	7	0,4	70	0,4	55
KV048.3W1000	48,3	61	125	60	160	-19/+9	+/-14	7	0,4	70	0,4	60
KV054.0W1000	54,0	67	130	60	160	-19/+9	+/-14	7	0,5	70	0,4	65
KV057.0W1000	57,0	70	130	60	160	-19/+9	+/-14	7	0,5	70	0,4	65
KV060.3W1000	60,3	73	131	70	180	-19/+9	+/-14	7	0,6	70	0,4	70
KV063.5W1000	63,5	74	134	70	180	-19/+9	+/-14	7	0,6	70	0,4	70
KV076.1W1000	76,1	89	155	70	180	-19/+9	+/-14	7	0,8	70	0,4	85
KV088.9W1000	88,9	102	169	95	225	-20/+10	+/-15	7	0,9	70	0,4	95
KV108.0W1000	108,0	125	202	100	250	-25/+12	+/-16	7	1,6	70	0,4	115
KV114.3W1000	114,3	131	205	100	250	-25/+12	+/-16	7	1,7	70	0,4	125
KV115.8W1000	115,8	133	205	100	250	-25/+12	+/-16	7	1,7	70	0,4	125
KV139.7W1000	139,7	157	234	100	250	-25/+12	+/-16	7	2,0	70	0,4	150
KV168.3W1000	168,3	185	292	100	250	-30/+14	+/-21	7	2,6	70	0,4	170

TABLE

### Pressure

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

### Rubber Design B.V.

Industrieweg 21  
2995BE Heerjansdam  
The Netherlands  
Phone: +31 ( 0 ) 78 677 87 78  
Fax: +31 ( 0 ) 78 677 10 38  
Email: info@rubberdesign.nl  
Web: www.rubberdesign.nl