

ZKAK/V

Sealing element (valve), coated with cellular rubber for power cables

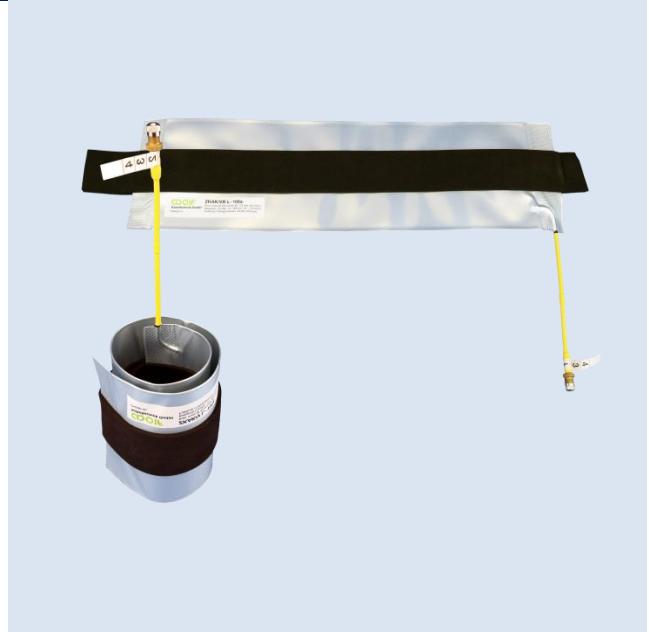
The universal sealing system for cable ducts, cable service entries with extended range of temperature -30 °C to +45 °C (short-term +70 °C/4h).

Predestined in the field of power cables.

For duct ID Ø 40 - 300 mm.

For installations in running or standing water and

4 x usable.



General information

ZKAK/V sealing elements with a valve are reusable seals (Fibre Optics CT patent, registered under EP 17972224.3) with a cellular rubber coating, equivalent to the coating with swelling material (QAK/V-L), which has had undiminished success for many years on the market.

Application-specific requirements, such as installation under running or standing water, created the need for the new technology with cellular rubber.

The sealing element (valve) fulfils the requirements of the T-Com TS 0307/96 (Approval No. Wolf 2005-08-11 ADE 100 (valve)).

Wolf sealing elements provide the user with a durable, reliable seal in a temperature range -30 °C to +45 °C (+70 °C for a short period of 4h).

Product description

Sealing cushion materials:

The flat tube cushion is made of a five-layered aluminium laminate.

The high quality of both material and processing guarantees a very low diffusion/leak rate of ~ 0.73 mbarl / year and ensures a long service life.

The filling unit:

In order to be able to fill the sealing cushion several times (4 times), a patented metal air valve with a plastic-coated valve extension is connected to the sealing cushion by means of a heat-seal welding process.

The pressure is filled via a pressure hose, which is plugged onto the sealing cushion to fill the car valve. After the pressure has been filled, the valve is sealed pressure-tight with the valve cap.

Product features

Tight against gas diffusion, dust, water (5 m water column) and chemical mixtures

- **The high-quality, robust aluminium laminate ...**

- adapts flexibly to the sealing area, independently of cable diameter and configuration or contamination by dirt
- ensures a long service life
- is resistant to chemical mixtures pH2 to pH12, fuels etc.

- **Coated with cellular rubber product group WO 24.2 ZK-DBK ...**

- ensures tightness up to 0.5 bar/5 m water column immediately on contact with water
- ensures tightness against gas diffusion (volatile halogenated hydrocarbons in soil air < 100 mbar)
- for installations in running or standing water
- allows quick, easy removal (< 2 min). No adhesion! Makes damage-free removal possible.

- **The patented car tyre valve construction ...**

- is simply inflated with compressed air (CO₂-free!)
- makes on-site overpressure inflation technology simple
- allows flexible adaptation of the inflated cushion to fit the surrounding space and prevents buckling of cables and ducts or changes in technical transmission properties.
- facilitates quick removal of air after cable retrofitting, by using accessory vacuum pump 33 VMSP or by changing the valve insert
- facilitates damage-free removal and re-installation

Installation video

See for yourself how quick and easy it is to fit and remove sealing elements:

<http://wolf-abdichttechnik.com/en/sealing-cushion/zkav-sealing-element/>

Installation cable duct seal
Ø ≤ 60 mm



Installation/ removal cable protection duct seal
Ø ≥ 80 mm



Tools (reusable)

No. 1 Box with valve installation set

Art. No. 33 VMSP-2/25	Box with valve installation set	
Art. No. 33 VDS2-30	1 item	valve torque screwdriver 20-30 Ncm
Art. No. 33-31.5007	25 items	valve inserts VG8
Art. No. 33-30.1509	25 items	round valve caps VG8



No. 2 Automatic fill-stop device

Art. No. 33 DB VG8-M8 incl. replacement seal.
Essential when inflating sealing elements types 40 to 60.



No. 3 Battery-operated compressor

Art. No. 33 EAR-S, consisting of:
 1 x Art. No. 33 ASI500 (12 V) battery-operated compressor
 (rechargeable with 230V)
 1 x Art. No. 33 EMS-150 air chuck adapter
 (can be replaced by a shut-off device)
 1 x Art. No. 33 E-VAS-3000 pressure hose, length 3 m
 Alternative a heavy duty compressor could also be used.



No. 4 For use with an existing compressor. Digital tyre pressure gauge:

Art. No. 33 DTI08 tyre pressure gauge 0-12 bar.
Illuminated digital display (switches off automatically after 50 sec), shock-resistant, G1/4 screw connection.



No. 5 Spray bottle or lubricant tube

Art. No. 40.2 spray bottle (for dish washing soap-water mixture)
or
Art. No. 40.1 Lubricant (tube 100 ml)



**Accessories for multi-configurations:
cellular rubber separators (only custom-made!) or swelling cable separators
for 1 to 4 cables**

For a high concentration of cables

The duct contains a lot of thin cables

Cable separator type ... 2.0 x ..

Weight of the cellular rubber -/ swelling material
200 g/m²

Art. No. 22.5 QV-MADS	Size of separator compartment for cable Ø	
2,0 x 50 x 100	< 15 mm	< 0.6 in.
2,0 x 70 x 100	15 - 25 mm	0.6 - 1.0 in.

For a low concentration of cables

The duct contains a few thick cables

Cable separator type ... 4.2 x ..

Weight of the cellular rubber -/ swelling material
480 g/m²

Art. No. 22.5 QV-MADS	Size of separator compartment for cable Ø	
4,2 x 50 x 100	< 25 mm	< 1.0 in.
4,2 x 70 x 100	15 - 50 mm	0.6 - 2.0 in.

Product range 16.3 ZKAK/V-L

Article No.	Ø of area to be sealed			Duct inner [mm]	Optimum [mm]	Minimum [mm]
	Duct inner [inch]	Optimum [inch]	Minimum [inch]			
16.3 ZKAK/V-L040*	1.6	0.87	0	40	22	0
16.3 ZKAK/V-L045*	1.8	1.26	0	45	32	0
16.3 ZKAK/V-L050*	2	1.3	0	50	33	0
16.3 ZKAK/V-L060*	2.4	1.7	0	60	42	0
16.3 ZKAK/V-L080	3	1.8	0	80	45	0
16.3 ZKAK/V-L090	3.5	2.2	0	90	55	0
16.3 ZKAK/V-L100	4	2.8	0	105	70	0
16.3 ZKAK/V-L115	4.5	3.2	0	115	80	0
16.3 ZKAK/V-L125	5	3.4	0.79	125	85	20
16.3 ZKAK/V-L150	6	4.1	1.66	150	105	42
16.3 ZKAK/V-L175	6.9	5.1	2.8	175	130	70
16.3 ZKAK/V-L200	7.9	6.1	3.6	200	155	90
16.3 ZKAK/V-L225	8.9	6.9	4.8	225	175	120
16.3 ZKAK/V-L250	9.8	7.5	5.5	250	190	140
16.3 ZKAK/V-L275	10.8	9.1	6.7	275	230	170
16.3 ZKAK/V-L300	11.8	9.8	7.5	300	250	190

* Automatic fill-stop [33 DB VG8-M8] required • 16.3 ZKAK/V-L rolled up 1 piece or 10 pieces

Special-conditions

Optionally with framework contract for binding annual purchase quantities :

Art.-No. 16.4 ZKAK/V-L-xx 5.000 items / 10.000 items / 25.000 items etc.

(Packaging units: at least 300 items per type, laid flat)

Installation instructions

- MA 05 1.1 Safety instructions
- MA 05 2.1 Cable-/duct- sealing range and filling pressure for cushions (valve)
- MA 05 3.1 Installation accessories / cable sealing
- MA 05 5.2 Short instructions power cable

Supplier

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