

## QAK/V

### Sealing element (valve), coated with swelling material for power cables

The universal sealing system for cable ducts, cable distributors, cable service entries and ring space sealing.

Predestined in the field of power cables.

For duct ID Ø 40 - 300 mm.

Extended range of temperature  
-30°C to +45°C  
(short-term +70°C/4h)

4 x usable.



### General information

ADE/V sealing elements with a valve (Fibre Optics CT patent, registered under EP 15154700.7) with petrolatum coating have been successfully used in practice since January 2006 and as a further development coated with swelling material for the extended temperature range for the use in the field of power cables for many years. The sealing element (valve) fulfils the requirements of the T-Com TS 0307/96b (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). The service life against reliable sealing of dust, smoke, noise and vibration, as well as up to 5 m water column and chemical mixtures pH2 to pH12 is > 20 years.

## 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 swelling material product group WO 22.2 QV-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)
- 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 (CO<sub>2</sub>-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 the sealing elements:

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

**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 230 V)  
 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



## Accessories for multi-configurations: swelling separators for 1-4 cables

#### For a high concentration of cables

The duct contains a lot of thin cables

#### Swelling cable separator type ... 2.0 x ..

Weight of the swelling material 200 g/m<sup>2</sup>

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

#### Swelling cable separator type ... 4.2 x ..

Weight of the swelling material 480 g/m<sup>2</sup>

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 16.1 QAK/V-L

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

\* Automatic fill-stop [33 DB VG8-M8] required • 16.1 QAK/V-L rolled up 1 piece or 10 pieces

### Special-conditions

**Optionally with framework contract** for binding annual purchase quantities:  
 Art.-No. 16.2 QAK/V-L-xx 5.000 items/ 10.000 items / 25.000 items etc.  
 (Packaging units: at least 300 items per type, laid flat)

### Installation instruction

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 5.1 Short instructions power cable

## Supplier

## Your local sales partner

### National sales



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