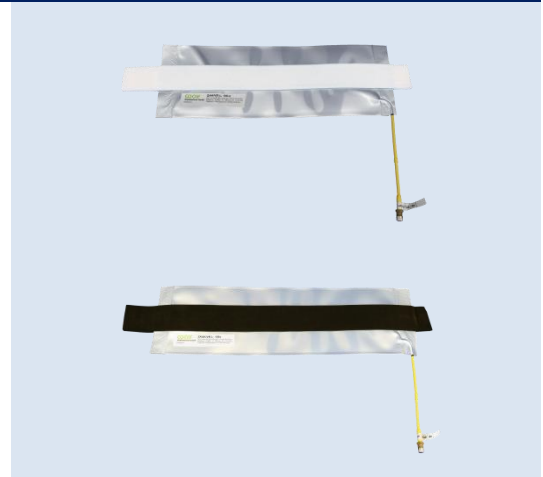


Part 3.1: Installation accessories

QAK/V | ZKAK/V | QADEV | ZKADEV
Sealing elements/valve with swelling material or cellular rubber

Sealing cushions with swelling material
 16.1 and 16.2 QAK/V
 20.5 and 20.6 QADEV

Sealing cushions with cellular rubber
 16.3 and 16.4 ZKAK/V
 20.3 and 20.4 ZKADEV



Sealing

For retro-sealing the space between an outer conduit and cable(s) or duct(s) against gas diffusion and 5 m water column.

Notes on use

For reliable retro-sealing of empty or occupied conduits, the following information is required and **in some cases, installation accessories:**

1. Inner Ø of the outer protective conduit
2. Number and Ø of multiple cable entries in the conduit
3. Distribution of the cable entries
4. Number and outer Ø of cables and/or ducts
5. Sealing areas and filling pressure **MA 05 Part 2.1**

Please note: minimum sealing area:
 The specified min. configuration for the sealing area (see label or Table 1) must always be reached. Otherwise, a dummy tube must be inserted.

Components

Reusable sealing element with a valve and coated with swelling tape or cellular rubber

Art. No.	Art. No.
16.1 + 16.2 QAK/V L 40 - 300 16.3 + 16.4 ZKAK/V L 40 - 300 Temperature range: -30 °C - +45 °C (+70 °C*) * for a short period (4 h)	20.3 + 20.4 ZKADE/V L 40 - 150 20.5 + 20.6 QADE/V L 40 - 150 Temperature range: -15 °C bis +30 °C (+45 °C*) * for a short period (4 h)

Accessories for gap-sealing, in the case of more than one cable or duct

No. 1



3 cables/ducts:

Sealing insert coated with swelling material

Art. No.	3-chambers: notch-Ø, to fit cable-Ø [mm]			
	Supplied with 1 layer of 22.2 QV-DBK 4.2 x 50/...		+ additional 1 layer of sealing tape (in the notch) 22.2 QV-DBK 4.2 x 50/...	
	Cable	Bundle	Cable	Bundle
22.9 QV-ADS2-3K	48 - 50	---	52 - 54	109
22.9 QV-ADS1-3K	43 - 45	97	45 - 47	94
22.9 QV-ADS0-3K	34 - 38	84	38 - 40	80
	Supplied with 1 layer of EPDM + additional 1 layer of 22.2 QV-DBK 4.2 x 50/...			
22.9 QV-ADS2-3KG			38 - 40	106
22.9 QV-ADS1-3KG			32 - 34	96
22.9 QV-ADS0-3KG			26 - 28	81

No. 2



2 - n cables/ducts:

Swelling sealing insert

Art. No.	Notch Ø for cable Ø [mm]	Dimensions for 4 notches [mm]
22.5 QV-MADS-K 2.0 x 50 x 100	< 30	2.0 x 50 x 100
22.5 QV-MADS-K 2.0 x 70 x 100	< 50	2.0 x 70 x 100
22.5 QV-MADS-K 4.2 x 50 x 100	< 30	4.2 x 50 x 100
22.5 QV-MADS-K 4.2 x 70 x 100	< 50	4.2 x 70 x 100

No. 3

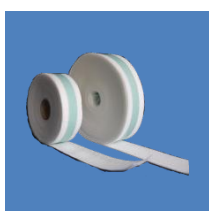


2 - n cables/ducts:

Swelling sealing tape for sealing gaps between cables etc.

Art. No.	Cable Ø [mm]	Dimensions thickness x width [mm]	Length [m]
22.1 QV-DB 2.0 x 100/10	6 - 15 mm	2.0 x 100	10 m
22.1 QV-DB 4.2 x 135/10	≥ 10 mm	4.2 x 135	10 m

No. 4



Accessory:

Self-adhesive swelling sealing tape for wrapping round dummy tubes on-site. (Refurbishment of sealing elements, for corrugated tubes with corrugation of > 18 mm)

Art. No.	Dimensions thickness x width [mm]	Length [m]
22.2 QV-DBK 2.0 x 50/10 m	2.0 x 50	10
22.2 QV-DBK 4.2 x 50/10 m	4.2 x 50	10
22.2 QV-DBK 4.2 x 135/10 m	4.2 x 135	10

Accessory for when the minimum required configuration area is not reached

No. 5



Cellular rubber sealing tape, self-adhesive

For wrapping round cables and ducts during duct sealing.
Sealing cushion refurbishment.

Art. No.	Dimensions thickness x width [mm]	Length [m]
24.2 ZK-DBK	2.0 x 50/10 m	2.0 x 50
24.2 ZK-DBK	3.0 x 50/10 m	3.0 x 50
24.2 ZK-DBK	3.0 x 135/10 m	3.0 x 135

Inflation

No. 6



Flexible valve extension, adaptable > 1 m

Example
Art. No. 21.5 AF-VV/M L xx

No. 7a



Compressor:

Suction capacity 150 l/min., max. working pressure 8 bar, voltage 230 V, spiral hose 2.5 m, tyre inflation gauge 0-4 bar

Example
Art. No. CPM170-8-6 WOF

No. 7b

33 E-VAS-3000



Filling tool (extension nozzle):

Length 3 m, for use in combination with filling adapter EMS-150 and automatic fill-stop No. 9

33 EMS-150



Example
Art. No.
33 EMS-150
33 E-VAS-3000

No. 8



Automatic fill-stop:

– essential for sealing element types 40 bis 60

Art. No. 33 DB VG8-M8

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WOIF[®] GmbH
Zazenhäuser Str. 52
70437 Stuttgart, Germany

Tel. ++49 (0) 711 87 39 41
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Email: service@wolf-systems.com
Internet: www.wolf-systems.com

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