

QV-MADS-K

Swelling cable separator for 2 to 4 cables

Accessories for sealing cushions group 16, 19, 20

Self-sealing swelling
cable separators
for sealing gaps between
cables and microducts



Choice of the swelling cable separator type

For a high concentration of cables			For a low concentration of cables		
Many, thin cables inside a „small“ duct (Ø up to 100 mm)			Few, thicker cables inside a duct (Ø ≥ 100)		
Swelling cable separator type ... 2.0 x .. swellable material – weight 200 g/m ²			Swelling cable separator type ... 4.2 x .. swellable material – weight 480 g/m ²		
Compartment size for cable-Ø			Compartment size for cable-Ø		
2,0 x 50 x 100	< 15 mm	< 0.6 in.	4,2 x 50 x 100	< 25 mm	< 1.0 in.
2,0 x 70 x 100	15 – 25 mm	0.6 – 1.0 in.	4,2 x 70 x 100	15 – 50 mm	0.6 – 2.0 in.

Technical Data

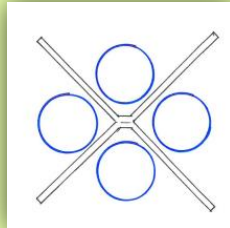
Swelling material

Self-sealing swelling material is a mechanically prefabricated thermoset nonwoven made of PP fibres and special superabsorbent UV-stabilised fibres	
Geotextile robustness class TL Geok EstB 05	3
Weight per unit area dry/swollen/ dry	EN ISO 9864 450/ 8200/ 435 g/m ²
Thickness EN ISO 10319 wet/ dry	2 kPa 20 kPa 200 kPa 2.2/ 9.5/ 4.2 mm 1.5/ 7.0/ 1.9 mm 0.9/ 33/ 0.92 mm
Water permeability Initial swelling Dry/wet cycle Frost/melt cycle (4 cycles)	< 5.0 x 10 ⁻⁹ m/s < 3.0 x 10 ⁻⁹ m/s < 3.9 x 10 ⁻⁹ m/s
Static puncture resistance Dry/swollen/ dry	EN ISO 12236 1.7 / 1.0/ 1.6mm
Swelling pressure	approx. 170kN/m ²
Penetration test Damage Ø 5 mm: pressureless circular diffusion < 1 cm Under increased water pressure 7 m water column, no further diffusion Damage Ø 5 mm: 7 m water column: < 2.0 cm diffusion, practically circular	
Resistance • Resistance to acid or alkaline liquids • Weather resistance • Microbiological resistance • Oxidation resistance 110°C/ 28 days • Resistance to hydrolysis 95°C	Standard DIN EN 14030:2003-11 12224: 2000-11 12225:2000-12 13438:2005-02 12447:2002-03
Resistance of the Wolf swelling cables and duct seals against environmental factors	
FO Test report FO7 Part 54 PB 65/2014	
• Premium grade petrol 30 days / 20 ± 3°C	Tightness
• Diesel 30 days / 20 ± 3°C	Tightness
• Kerosene 30 days / 20 ± 3°C	Tightness
• Paraffin 30 days / 20 ± 3°C	Tightness
• Acid and alkaline liquids pH2 (HCl) 30 days / 20 ± 3°C pH12 (NaOH) 30 days / 20 ± 3°C	Tightness Tightness
FO Test report FO7 Part 54 PB 68/2014 "Tightness with cycling" Temperature cycling -15°C to +45°C, 10 cycles	
• Overpressure air at 45°C/ 0.35 bar	Overpressure can be released in a controlled way
After temperature cycling • Pressing water ≤ 0.5 bar/ 2 days < 5 m water column	Tightness
FO- Test report PB 27/2014 • Mechanical wear and tear (notching) resistance ≤ 39 N/cm ²	
	Tightness; no penetration
WO03/11 current (results of practical tests) • Gas diffusion	
	Tightness t
• Pressureless smoke	Tightness

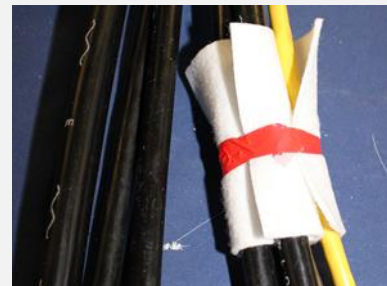
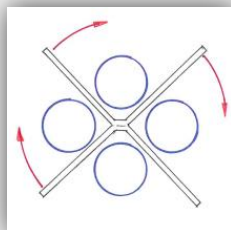
Installation- quick, easy and reliable (extract from the installation instructions)

1. Gap sealing for configurations with 2-4 cables/ducts

- Spread the cables/microducts apart
- Fit the cables into the notches of the QV-MADS-K swelling cable separator



- Lay the QV-MADS-K swelling cable separator round the cables as shown in the picture and fix loosely with adhesive tape or similar material. Insert the cable separator to approx. 3 cm under the sealing cushion.



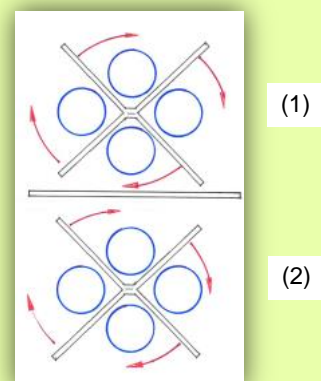
2. Gap sealing for configurations with > 5-8 cables/ducts

Case 1:

If it is possible to cover all cables/ducts with the swelling material of the QV-MADS-K swelling cable separator (1), then the sealing for cables/ducts Nos. 5 to 8 is carried out as described in point 1.

Case 2:

If the cables/ducts could not all be completely covered by the swelling material of the QV-MADS-K cable separator (1), then an extra piece of swelling sealing tape must be inserted between the QV-MADS-K cable separators (1, 2) or cable/duct bundles (1) and bundle (2).



Product range

Artikel No.	Notch measurement (QV thickness x width x length [mm])	Packaging unit [per unit]
22.5 QV-MADS-K 2.0 x 50 x 100	2.0 x 50 x 100	5
22.5 QV-MADS-K 2.0 x 70 x 100	2.0 x 70 x 100	5
22.5 QV-MADS-K 4.2 x 50 x 100	4.2 x 50 x 100	5
22.5 QV-MADS-K 4.2 x 70 x 100	4.2 x 70 x 100	5

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