

VHS09, VK309 // for insertion installation



Your advantages

| Series | VHS09 / VK309 |
|--------|--|
| | <ul style="list-style-type: none"> • Universal flow switches for Kupferrohr Ø 32...88,9 • Adjustable for pipe size and setpoint by trimming the paddle • Soldering adapter for copper pipes |

| Technical data | VHS09 | VK309 |
|--------------------------------------|--|--|
| Switching function | Contact → closes at increasing flow → opens at decreasing flow Reversing possible | Contact → closes at increasing flow → opens at decreasing flow |
| Pressure rating | PN 25 | PN 10 |
| Temperature ranges | | |
| Medium | -25...110 °C | -25...100 °C |
| Ambient | -25...80 °C | -25...70 °C |
| Electrical data | | |
| Electrical connection | Plug connector DIN EN 175301-803-A incl. cable socket | 1.5 m PVC jacket cable |
| Switching current | Max. 1 A | |
| Switching voltage | Max. 230 VAC, 48 VDC | |
| Rating | Max. 26 VA, 20 W | |
| Degree of protection EN 60529 | IP65 | |
| Protection class EN 60730-1 | Class II | |

Approvals



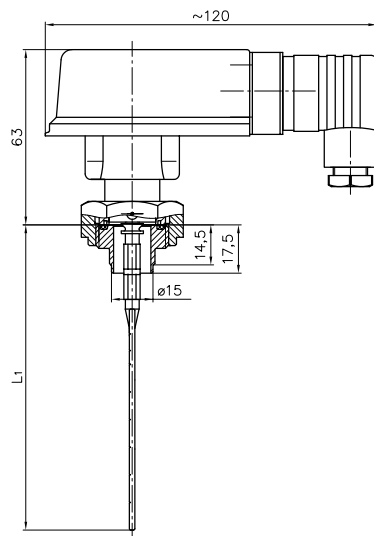
| Options | |
|-----------------|---|
| For type | See order code |
| VHS09 | → Plug connector DIN EN 175301-803-Aincl.cable socket with two LED for switching voltages 24 V...230 V AC/DC ±20 %, ambient temperature -20...70 °C → or 4-pin-sensor plug M12 x 1 |
| For type | On request |
| VK309 | → Reversed switching function → Recognized component ETL according to UL & CSA standards |

| Set point ranges | | | | | | | | |
|---|---|-----|------|------|------|-----|-----|-----|
| Paddle to be trimmed to | | | | | | | | |
| | Paddle mark | 9 | 15 | 20 | 30 | 40 | 50 | 60 |
| | Installation length L ₁ [mm] | 39 | 45 | 50 | 60 | 70 | 80 | 90 |
| Setpoints* / Max. flow rate [m ³ /h] | | | | | | | | |
| Ø 32 x 1 | Increasing flow ON** | 2 | | | | | | |
| | Decreasing flow OFF | 1.9 | | | | | | |
| | Max. flow rate | 10 | | | | | | |
| Ø 35 x 1 | Increasing flow ON** | 2.6 | 1.8 | | | | | |
| | Decreasing flow OFF | 2.4 | 1.6 | | | | | |
| | Max. flow rate | 20 | 13 | | | | | |
| Ø 35 x 1.5 | Increasing flow ON** | 2.5 | 1.7 | | | | | |
| | Decreasing flow OFF | 2.2 | 1.6 | | | | | |
| | Max. flow rate | 18 | 12 | | | | | |
| Ø 42 x 1.5 | Increasing flow ON** | 3.9 | 2.8 | 2.2 | | | | |
| | Decreasing flow OFF | 3.7 | 2.7 | 2.1 | | | | |
| | Max. flow rate | 30 | 20 | 15 | | | | |
| Ø 54 x 1.5 | Increasing flow ON** | | | | 3.2 | | | |
| | Decreasing flow OFF | | | | 3 | | | |
| | Max. flow rate | | | | 21 | | | |
| Ø 54 x 2 | Increasing flow ON** | | | | 3 | | | |
| | Decreasing flow OFF | | | | 2.9 | | | |
| | Max. flow rate | | | | 20 | | | |
| Ø 64 x 2 | Increasing flow ON** | | 8.6 | 7.2 | 5.2 | 4 | | |
| | Decreasing flow OFF | | 7.9 | 6.6 | 4.7 | 3.7 | | |
| | Max. flow rate | | 53 | 42 | 30 | 24 | | |
| Ø 76,1 x 2 | Increasing flow ON** | | 13.6 | 10.8 | 8 | 6.4 | 5.2 | |
| | Decreasing flow OFF | | 12.1 | 10 | 7.4 | 5.8 | 4.7 | |
| | Max. flow rate | | 80 | 65 | 46 | 35 | 31 | |
| Ø 88,9 x 2 | Increasing flow ON** | | | | 10.9 | 9 | 7.3 | 6.1 |
| | Decreasing flow OFF | | | | 10.7 | 8.4 | 6.9 | 5.9 |
| | Max. flow rate | | | | 67 | 52 | 42 | 39 |

* Water, 20 °C, horizontal pipe, tolerance ±15 %

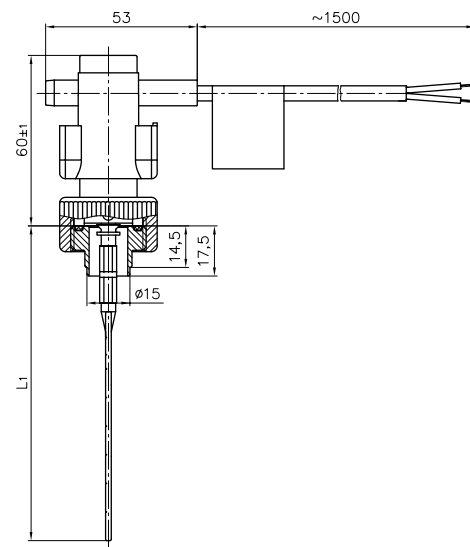
** Typical value

VHS09



Flow direction

VK309



Flow direction

Materials in contact with fluid

| Type | VHS09 | VK309 |
|---------------------------|---|---|
| Body | Brass CW614N | PPE+PS Noryl™ 30 % glass fibre reinforced |
| Paddle / Sleeve | PPE+PS Noryl™ 30 % glass fibre reinforced / Stainless steel | |
| Process connection | Brass CW614N | |
| Pin | Stainless steel 1.4571 | |
| Magnet | Hard ferrite | |
| O-ring | NBR | |

Order code

| Type | Order number |
|---|----------------|
| VHS09 | |
| Plug connector incl. cable socket (standard) | VHS09M2P171D11 |
| Plug connector incl. cable socket with LED (option) | VHS09M2P191D11 |
| 4-pin-sensor plug M12 x 1 (option) | VHS09M2P181D11 |
| VK309 | |
| 1.5 m PVC jacket cable | VK309M2P10PD11 |

BEST
SELLER

| Type | Order number |
|--------------|---|
| VHS09 | Plug connector (Standard), Paddle plastic |
| | VHS09M2P171D11 |

