

Product Information

VD-015..050GK

Flow Switch VD-...GK

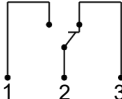


- **Highly reproducible**
- **Precise, stepless adjustment of the switching value**
- **Insensitive to dirt**
- **Short installation length**

Characteristics

The volume flow raises a piston (fitted with a magnet) out from a valve seat against a spring force. The piston actuates a hermetically separated reed switch.

Technical data

Switch	reed switch	
Nominal width	DN 15..50	
Process connection	female thread G 1/2..G 1	
Switching range	1..200 l/min	for details see table "Ranges"
Q_{max}	to 290 l/min	
Tolerance	±5 % of full scale value	
Pressure resistance	PN 100 bar	
Medium temperature	-20..+120 °C	
Ambient temperature	-20..+70 °C	
Media	water (oils, gases and aggressive media available on request)	
Wiring	changeover no. 0.213 	
Switching voltage	Max. 175 V DC / 120 V AC	
Switching current	Max. 0.25 A DC / 0.18 A	
Switching capacity	AC Max. 5 W / VA	
Protection class	2 - safety insulation	
Ingress protection	IP 44, optionally IP 65	
Connection	Plug DIN 43650-A / ISO 4400	
Materials medium-contact	1.4305, 1.4571, 1.4310, FKM, hard ferrite	
Non-medium-contact materials	PTFE-coated	
Weight	see table "Dimensions and weights"	

Installation location

Standard: horizontal inwards flow; switching head not recommended underneath; other installation positions are possible; the installation position affects the switching point and range.

Ranges

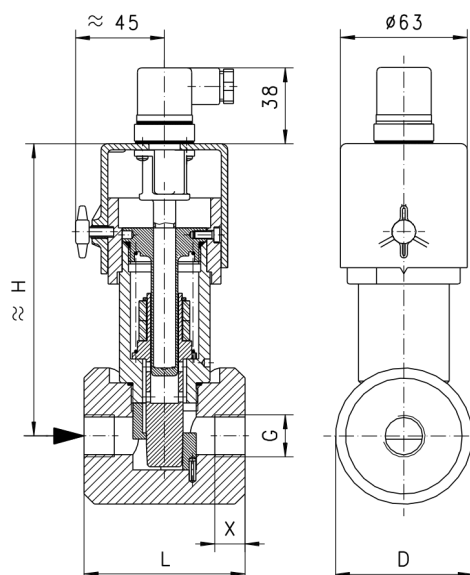
Details in the table correspond to horizontal inwards flow with decreasing flow rate.

G	Nominal width	Switching range l/min H ₂ O	Q _{max} recommended	Type
G 1/2	DN 15	1 - 10	20	VD-015GK010
			30	VD-015GK020
G 3/4	DN 20	4 - 20	40	VD-020GK020
			60	VD-020GK040
G 1	DN 25	10 - 40	85	VD-025GK040
			100	VD-025GK060
G 1 1/4	DN 32	20 - 60	145	VD-032GK060
			150	VD-032GK100
G 1 1/2	DN 40	30 - 100	220	VD-040GK100
			250	VD-040GK150
G 2	DN 50	50 - 150	290	VD-050GK150
			290	VD-050GK200

Special ranges are possible

Dimensions and weights

G	Types	H	L	D	X	Weight kg
G 1/2	VD-015GK	176	80	68	15	2.8
G 3/4	VD-020GK				16	2.6
G 1	VD-025GK				18	2.5
G 1 1/4	VD-032GK	180	95	78	24	3.7
G 1 1/2	VD-040GK	186	105	88	25	4.8
G 2	VD-050GK	194	120	102	27	7.0



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Fibra Óptica Cabo Rede Instrumentação Energia Ferramenta



VD-015..050GK

Ordering code

	1.	2.	3.	4.	5.
VD -		GK			

- | | | | | | | | | |
|-----------|---|-------------------------------------|--|--|--|--|--|----|
| 1. | Nominal width | | | | | | | |
| | 015 | DN 15 - G ⁺ ₂ | | | | | | |
| | 020 | DN 20 - G ⁺ ₄ | | | | | | |
| | 025 | DN 25 - G 1 | | | | | | |
| | 032 | DN 32 - G ⁺ ₄ | | | | | | |
| | 040 | DN 40 - G ⁺ ₂ | | | | | | |
| | 050 | DN 50 - G 2 | | | | | | |
| 2. | Process connection | | | | | | | |
| | G | female thread | | | | | | |
| 3. | Connection material | | | | | | | |
| | K | stainless steel | | | | | | |
| 4. | Switching range H₂O
for horizontal inwards flow | | | | | | | |
| | 010 | 1 - 10 l/min 4 | | | | | | |
| | 020 | - 20 l/min 10 - | | | | | | |
| | 040 | 40 l/min 10 - | | | | | | |
| | 060 | 60 l/min 20 - | | | | | | |
| | | 60 l/min 20 - | | | | | | |
| | 100 | 100 l/min 30 - | | | | | | |
| | | 100 l/min 50 - | | | | | | |
| | | 150 l/min 100 - | | | | | | |
| | 150 | 200 l/min | | | | | | |
| | 200 | | | | | | | |
| 5. | Optionally for ATEX | | | | | | | |
| A | for switching head ATEX A-V1
(The switching head is ordered in addition) | | | | | | | Ex |

Adjustment
To adjust the switching point, the fixing screw for the switching head must be loosened. The switching head can then be rotated. Turning to the right increases the switching point, and vice-versa. Then retighten the fixing screw.



- Special plugs, Tuchel / Harting
- Signal lamp red or red / green in the plug DIN 43650-A
- Other signal lamp
- Ingress protection P 65
- Temperature display 0..120 °C
- Temperature monitoring 40..90 °C
- Temperature resistant up to 150 °C
- Metal cap
- Switch contact SPDT change over 250 V AC 0.35 A 30 VA-
increased hysteresis depending on switching value. Only
available with fixed switch point.
- Switching ranges for oil
- Special values

- Specify direction of flow, medium, and switching range.
- For oils. State viscosity, temperature and designation (e.g. ISO VG 68) (enquire about switching range).