

Product Information

Flow Switch VD-...GR



- **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 8..80 | |
| Process connection | female thread G 1/4..G 3 | |
| Switching range | 1..600 l/min | for details see table "Ranges" |
| Q_{max.} | to 720 l/min | |
| Tolerance | ±5 % of full scale value | |
| Pressure resistance | G 1/4..G 1 - PN 25 bar G 1 1/4..G 3 - PN 16 bar | |
| Medium temperature | -20..+120 °C | |
| Ambient temperature | -20..+70 °C | |
| Media | water (oils and gases available on request) | |
| Wiring | changeover no. 0.213 | |
| Switching voltage | max. 250 V AC | |
| Switching current | max. 1.5 A | |
| Switching capacity | max. 50 VA | |
| Protection class | 2 - safety insulation | |
| Ingress protection | IP 44, optionally IP 65 | |
| Connection | plug DIN 43650-A / ISO 4400 | |
| Materials medium-contact | Rg 5 / Rg 6 nickelled, POM, 1.4310, CW614N, NBR, hard ferrite | |
| Non-medium-contact materials | ABS, PA | |

| | |
|------------------------------|---|
| 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 1/4 | DN 8 | 1 - 10 4 - 20 10 - 40 20 - 60 | 15 | VD-008GR010 |
| | G 3/8 | | DN 10 | 25 |
| 20 | | | | VD-010GR010 |
| G 1/2 | DN 15 | | 30 | VD-010GR020 |
| | | | 20 | VD-015GR010 |
| G 3/4 | DN 20 | | 30 | VD-015GR020 |
| | | | 20 | VD-020GR010 |
| | | | 40 | VD-020GR020 |
| | | | 60 | VD-020GR040 |
| G 1 | DN 25 | | 80 | VD-020GR060 |
| | | 20 | VD-025GR010 | |
| | | 40 | VD-025GR020 | |
| | | 60 | VD-025GR040 | |
| G 1 1/4 | DN 32 | 85 | VD-025GR060 | |
| | | 10 - 40 | 90 | VD-032GR040 |
| | | 20 - 60 | 100 | VD-032GR060 |
| | | 30 - 100 | 145 | VD-032GR100 |
| G 1 1/2 | DN 40 | 50 - 150 | 200 | VD-032GR150 |
| | | 20 - 60 | 100 | VD-040GR060 |
| | | 30 - 100 | 150 | VD-040GR100 |
| | | 50 - 150 | 220 | VD-040GR150 |
| G 2 | DN 50 | 250 | VD-050GR150 | |
| G 2 1/2 | DN 65 | 290 | VD-050GR200 | |
| | | 100 - 200 | 400 | VD-065GR200 |
| G 3 | DN 80 | 475 | VD-065GR330 | |
| | | 180 - 330 | 600 | VD-080GR330 |
| | | 300 - 600 | 720 | VD-080GR600 |

Special ranges are available

