



All Metal Flow Switches for Liquids



measuring
•
monitoring
•
analysing

Low
switchpoint
at high flow



- Max. flow range:
1 - 100 L/min
Switch point at
approximately 1 L/min
water falling flow rate
- p_{max} 350 bar
 t_{max} 100°C
- Connection: G 1 female
- Material:
Brass or stainless steel



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Model:
SMN



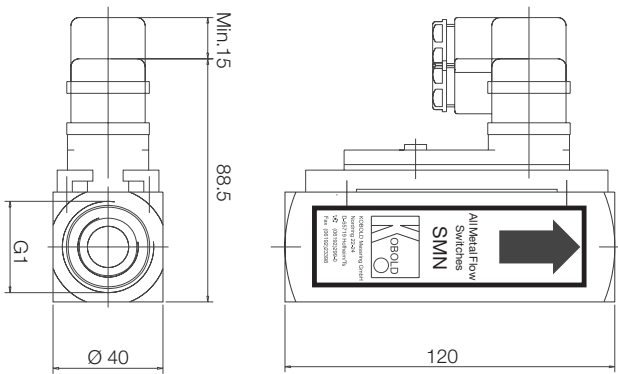
Description

The KOBOLD model SMN flow switch is used when extremely low flow switch points are required together with minimum pressure loss at high flow rates.

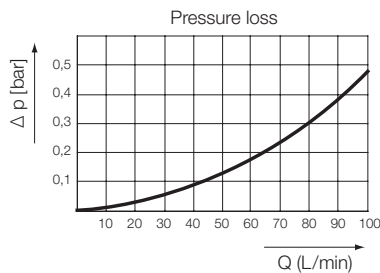
The flow switch operates on the well-known float principle. An orifice float with its integral circular magnet moves within a cylindrical flow tube in the direction of flow and against a spring.

The magnetic field of the float activates a reed contact which is mounted on the outside of the instrument in a sliding protective casing. The special construction of the float and flow tube means that only a low flow is required to raise the float and hence activate the reed contact. If the flow rate increases further and the float reaches the top of its travel an additional flow path opens allowing high flow rates without a significant increase in the pressure loss.

Dimensions (Model SMN with N/O contact)



Pressure loss



Technical Details

- Housing: SMN-11...: Brass, Ms 58
SMN-12...: Stainless steel, 1.4301
- Float: SMN-11...: Brass, Ms 58
SMN-12...: Stainless steel, 1.4301
- Pin: SMN-11...: Brass, Ms 58
SMN-12...: Stainless steel, 1.4301
- Spring: Stainless steel
- Magnets: Ceramic
- Max. temperature: 100 °C
- Max. pressure: SMN-11...: 250 bar
SMN-12...: 350 bar
- Installation position: horizontal or
vertical (upward direction)
flow in direction of the arrow
- Contact components: 1 bistable reed contact
N/O contact, Changeover contact
- Electrical connection: Connector DIN 43 650
- Electr. switching values: N/O contact (CSA)
max. 240 V_{AC} / 100 VA / 1.5 A
Changeover contact (CSA)
max. 240 V_{AC} / 60 VA / 1 A
N/O contact (UL)
max. 250 V_{AC} - 0.4 A /
200 V_{DC} - 0.25 A
max. 50 V_{DC} - 1 A
Changeover contact (UL)
max. 250 V_{DC} - 0.136 A /
30 V_{DC} - 1 A
- Ex range: ATEX-Zone 1 as "simple operator"
- Accuracy: ±5% f. s.
- Protection: IP 65

Applications

- Water cycles
- High pressure purifiers
- Sanitary technology
- Pumps
- Heating installations
- Cooling circuits
- Prevention of low water levels
- Confining fluid control

Order Details (Example: SMN-1150 R R25)

| Function | Brass version | St. steel version | Type of contact | Connection |
|---|---------------|-------------------|---|--|
| Max. Flow: 100 L/min Fix Switch point at approx. 1 L/min with falling flow rate | SMN-1150H... | SMN-1250H... | ..R0.. = 1 N/O contact ..U0.. = 1 Changeover contact ..C0.. = 1 N/O contact (UL) ..D0.. = 1 Changeover c. (UL) | ...R25 = G 1 female ...N25 = 1 NPT female |