Zertifiziertes QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

All Metal Flow Switches

for liquids

measuring • monitoring • analysing

SMN

Low switchpoint
at high flow

- Max. flow:
  1-100 l/min
  switch point at
  approx. 1 l/min water
  water falling flow rate
- p_{max}: 350 bar; t_{max}: 100 °C
- Connection: G 1 female,
  1" NPT female
- Material:
  brass or stainless steel

S2

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Description

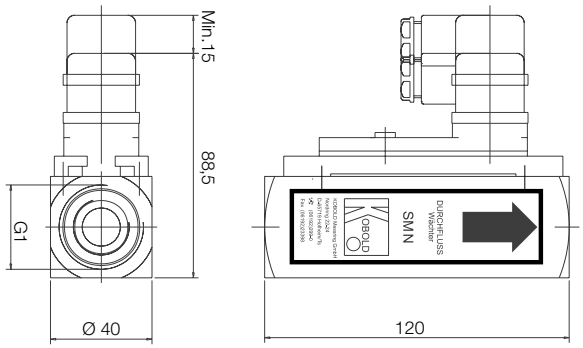
The KOBOLD model SMN flow switch is used when extremely low flow switch points are required together with minimum pressure loss at high flow rates.
The flow switch operates on the well-known float principle. An orifice float with its integral circular magnet moves within a cylindrical flow tube in the 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.

Technical Details

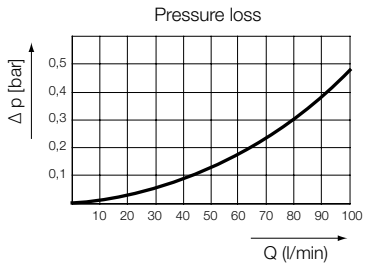
Housing:	SMN-11...: brass, Ms 58 SMN-12...: stainless steel, 1.4301
Float:	SMN-11...: brass, Ms 58 SMN-12...: stainless steel, 1.4301
Pin:	SMN-11...: brass, Ms 58 SMN-12...: stainless steel, 1.4301
Spring:	stainless steel
Magnets:	ceramic
Max. temperature:	100 °C
Max. pressure:	SMN-11...: 250 bar SMN-12...: 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 EN 175301-803
Electrical switching values:	N/O contact max. 250 $V_{AC/DC}$ / 1,5 A / 100 W / 100 VA changeover contact max. 250 $V_{AC/DC}$ / 1 A / 30 W / 60 VA N/O contact and changeover contact (cCSAus) max. 230 V_{DC} / 0,26 A / 60 W, 60 V_{DC} / 1 A / 60 W, max. 240 V_{AC} / 0,42 A / 100 W, 100 V_{AC} / 1 A / 100 W
Ex range:	ATEX-Zone 1 as »simple apparatus«
Accuracy:	± 5% of full scale
Protection:	IP 65

Dimensions [mm]

(Model SMN with N/O contact)



Pressure loss



Applications

- Water cycles
- Heating installations
- High pressure purifiers
- Cooling circuits
- Sanitary technology
- Prevention of low water levels
- Pumps
- 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 (cCSAus) **..D0..** = 1 changeover contact (cCSAus)	**...R25** = G 1 female **...N25** = 1" NPT female

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