

Flow Indicator M1J



- No electrical supply required
- Individually calibrated display range
- Compact design

Characteristics

A piston fitted with a magnet is pushed through the medium against the force of a spring. This activates the pointer of the measuring device by means of a magnetic coupling. Because of the hermetic separation from the medium, the display unit cannot be soiled by the medium.

Technical data

| | | |
|------------------------------|--|---|
| Switch | without | |
| Nominal width | DN 8..25 | |
| Process connection | female thread G 1/4..G 1 (further process connections available on request) | |
| Display range | 0.4..60 l/min | for details see table "Ranges" |
| Pressure loss | 0.4..1.4 bar at Q _{max} | |
| Q _{max} | to 80 l/min | |
| Tolerance | ±5 % of full scale value | |
| Pressure resistance | PN 200 bar | |
| Media temperature | -20..+120 °C | |
| Ambient temperature | -20..+70 °C | |
| Media | water (oils, gases and aggressive media available on request) | |
| Electrical data | none | |
| Materials medium-contact | Brass construction: CW614N nickelled, CW614N, 1.4310, hard ferrite, NBR | Stainless steel construction: 1.4571, 1.4404, 1.4310, hard ferrite PTFE-coated, FKM |
| Non-medium-contact materials | Acrylic, NBR | |
| Weight | see table "Dimensions and weights" | |
| Installation location | Standard: horizontal inwards flow from the left; other installation positions are possible; the installation position affects the display range. | |

Ranges

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

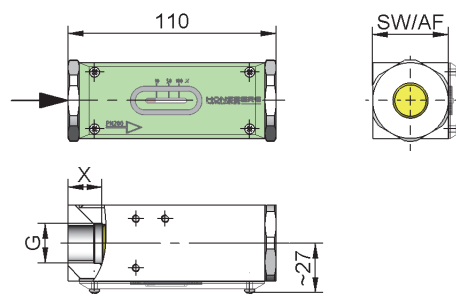
Scaling is via a 10..100 % display.

| Display range l/min H ₂ O | Q _{max} recommended | Pressure loss bar at Q _{max} H ₂ O |
|---|---------------------------------|---|
| 0.4 - 4 | 10 | 0.6 |
| 1.0 - 10 | 20 | |
| 2.0 - 20 | 30 | 0.4 |
| 3.0 - 30 | 40 | |
| 4.0 - 40 | 60 | 0.8 |
| 6.0 - 60 | 80 | 1.4 |

Special ranges are available.

Dimensions and weights

| | G | Types | SW | X | Weight kg |
|-----------------|-------|-----------|----|----|--------------|
| Brass | G 1/4 | M1J-008GM | 40 | 15 | 1.2 |
| | G 3/8 | M1J-010GM | | | |
| | G 1/2 | M1J-015GM | | 18 | 1.1 |
| | G 3/4 | M1J-020GM | | | 1.0 |
| | G 1 | M1J-025GM | | | 1.0 |
| Stainless steel | G 1/4 | M1J-008GK | 41 | 15 | 1.2 |
| | G 3/8 | M1J-010GK | | | |
| | G 1/2 | M1J-015GK | | 18 | 1.1 |
| | G 3/4 | M1J-020GK | | | 1.0 |
| | G 1 | M1J-025GK | | | 1.0 |



PLOVÁKOVÝ INDIKÁTOR PRŮTOKU M1J



Handling and operation

- Include straight calming section of 5 x DN in inlet and outlet
- If the media are dirty, install a filter
(use magnetic filter for ferritic components)

Ordering code

M1
M1 -

| | |
|-----|--|
| 1. | Display |
| J | with frontal measurement display J |
| 2. | Nominal width |
| 008 | DN 8 - G 1/4 |
| 010 | DN 10 - G 3/8 |
| 015 | DN 15 - G 1/2 |
| 020 | DN 20 - G 3/4 |
| 025 | DN 25 - G 1 |
| 3. | Process connection |
| G | female thread |
| 4. | Connection material |
| M | brass |
| K | stainless steel |
| 5. | Display range H ₂ O for horizontal inwards flow |
| 004 | 0.4 - 4 l/min |
| 010 | 1.0 - 10 l/min |
| 020 | 2.0 - 20 l/min |
| 030 | 3.0 - 30 l/min |
| 040 | 4.0 - 40 l/min |
| 060 | 6.0 - 60 l/min |

Options

- Special ranges/special scaling
- Temperature display 0..120 °C
- Reinforced piston

Ordering information

- Specify direction of flow, medium, and display range.
- For oils. State viscosity, temperature and designation (e.g. ISO VG 68) (enquire about display range).
- For gases, state pressure (relative or absolute), temperature and medium (e.g. air) (request display range)