

## 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

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

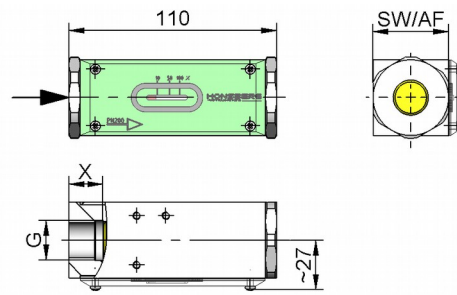
Scaling is via a 10..100 % display.

Display range l/min H <sub>2</sub> O	Q <sub>max.</sub> recommended	Pressure loss bar at Q <sub>max.</sub> H <sub>2</sub> 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
<b>Brass</b>	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			
<b>Stainless steel</b>	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			



## Product Information

M1J-008..025GM / K

### 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  -

<b>1. Display</b>	J	with frontal measurement display J
<b>2. Nominal width</b>	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
<b>3. Process connection</b>	G	female thread
<b>4. Connection material</b>	M	brass
	K	stainless steel
<b>5. Display range H<sub>2</sub>O for horizontal inwards flow</b>	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)