

Product Information

H1O / H1O1 / H1Z1

Flow Indicator H1O / H1O1 / H1Z1



- No electrical supply required
- Individually calibrated display
- 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	0.1...85 l/min	for details see table "Ranges"
Pressure loss	0.4...1.6 bar at Q _{max.}	
Q _{max.}	To 100 l/min	
Tolerance	±5 % of full scale value	
Pressure resistance	PN 200 optionally PN 500	
Media temperature	-20...+120 °C	
Ambient temperature	-20...+70 °C	
Media	water (oil, 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	H1O: CW614N nickelled, PC H1O1/Z1: PC, acrylic	
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.

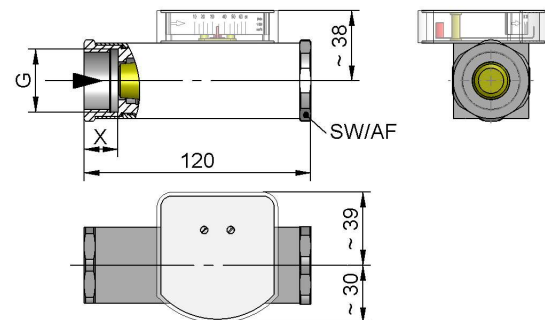
Display range l/min H ₂ O	Q _{max.} recommended	Pressure loss bar at Q _{max.} H ₂ O
0.1 - 1.2	6	0.4
0.5 - 6.0	10	0.5
1.0 - 12.0	20	0.6
2.0 - 23.0	30	0.4
3.0 - 34.0	40	0.4
4.0 - 45.0	60	0.8
6.0 - 65.0	80	1.4
20.0 - 85.0	100	1.6

Special ranges are available.

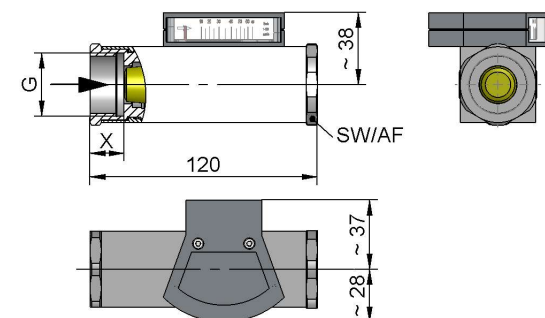
Dimensions and weights

	G	Types	AF	X	Weight kg	
Brass	G ¹ / ₄	H1x-008GM	40	15	1.4	
	G ³ / ₈	H1x-010GM			1.3	
	G ¹ / ₂	H1x-015GM		18		1.2
	G ³ / ₄	H1x-020GM				
	G 1	H1x-025GM				
Stainless steel	G ¹ / ₄	H1x-008GK	41	15	1.3	
	G ³ / ₈	H1x-010GK			1.2	
	G ¹ / ₂	H1x-015GK		18		1.1
	G ³ / ₄	H1x-020GK				
	G 1	H1x-025GK				

H1O



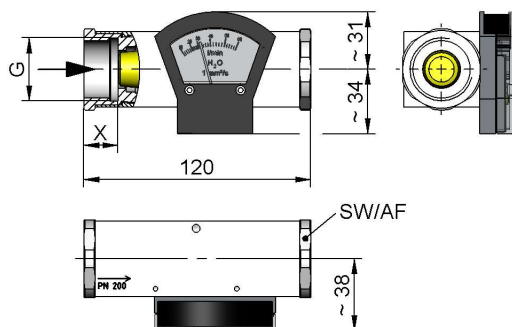
H1O1



Product Information

H10 / H101 / H1Z1

H1Z1



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

H1 1. 2. 3. 4. 5.

1. Display	
O	with measurement display at side O
O1	with measurement display at side O1
Z1	with frontal measurement display Z1
2. Nominal width	
008	DN 8 - G $\frac{1}{4}$
010	DN 10 - G $\frac{3}{8}$
015	DN 15 - G $\frac{1}{2}$
020	DN 20 - G $\frac{3}{4}$
025	DN 25 - G 1
3. Process connection	
G	female thread
4. Connection material	
M	brass
K	stainless steel
5. H1 - Display range H₂O for horizontal inwards flow	
001	0.1 - 1.2 l/min
005	0.5 - 6.0 l/min
010	1.0 - 12.0 l/min
020	2.0 - 23.0 l/min
030	3.0 - 34.0 l/min
040	4.0 - 45.0 l/min
060	6.0 - 65.0 l/min
080	20.0 - 85.0 l/min

Options

- Special ranges/special scaling
- Pressure resistance PN 500
- Temperature display 0...120 °C
- reinforced piston

Ordering information

- Specify direction of flow, medium, and display range.