

**Product Information**

**H1VZ1-032..065GM / K**

**Flow Indicator H1VZ1**



- Viscosity stabilised from 30 to 200 mm<sup>2</sup>/s
- No electrical supply required
- Individually calibrated display

**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 32..50	
<b>Process connection</b>	female thread G 1 1/4..G 2 (further process connections available on request)	
<b>Display range</b>	2..220 l/min	for details see table "Ranges"
<b>Q<sub>max.</sub></b>	to 250 l/min	
<b>Tolerance</b>	±5 % of the full scale value plus viscosity variation	
<b>Pressure resistance</b>	PN 200	
<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 <i>DN 32..40:</i> NBR	<i>Stainless steel construction:</i> 1.4571, 1.4404, 1.4310, hard ferrite PTFE-coated, <i>DN 32..40:</i> FKM
<b>Non-medium-contact materials</b>	PC, acrylic	
<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.

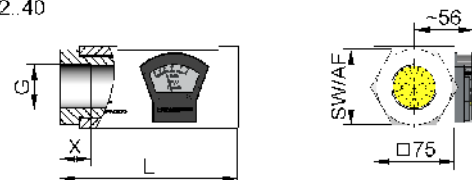
Display range l/min H <sub>2</sub> O or oil 30..200 mm <sup>2</sup> /s	Q <sub>max.</sub> recommended
2 - 15	50
5 - 25	60
10 - 45	100
20 - 65	150
30 - 110	200
50 - 160	230
100 - 220	250

Special ranges are available.

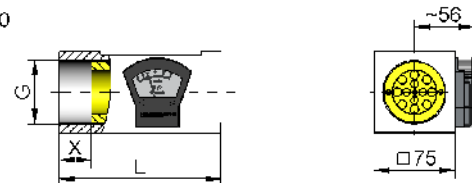
**Dimensions and weights**

DN	G	Types	L	SW	X	Weight kg
32	G 1 1/4	H1VZ1-032G.	165	70	29	5.8
40	G 1 1/2	H1VZ1-040G.				5.5
50	G 2	H1VZ1-050G.	150	-	26	5.0

DN 32..40



DN 50



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**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**

H1V  -

○=Option

<b>1. Display</b>	Z1	with frontal measurement display Z1
<b>2. Nominal width</b>	032	DN 32 - G 1 <sup>1</sup> / <sub>4</sub>
	040	DN 40 - G 1 <sup>1</sup> / <sub>2</sub>
	050	DN 50 - G 2
<b>3. Process connection</b>	G	female thread
<b>4. Connection material</b>	M	brass
	K	<input type="radio"/> stainless steel
<b>5. Display range H<sub>2</sub>O or oil 30..330 mm<sup>2</sup>/s for horizontal inwards flow</b>	012	2 - 15 l/min
	025	5 - 25 l/min
	040	10 - 45 l/min
	060	20 - 65 l/min
	100	30 - 110 l/min
	150	50 - 160 l/min
	200	100 - 220 l/min

**Options**

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

**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)