



AS010 Vortex flow meter G1 1/4M

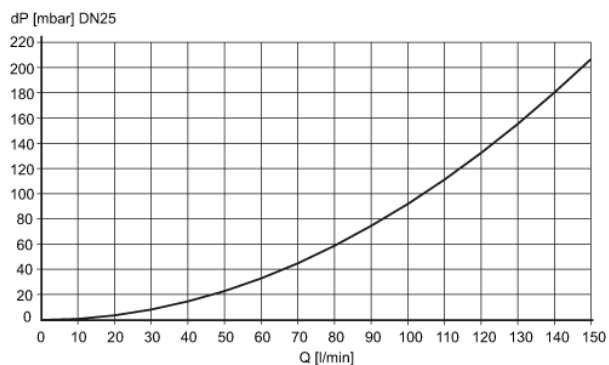
■ G 1 1/4

≈ 9.0 ... 150 l/min

° -25 ... 125 °C

In daily use - proven millions of times over. Products from autoson are under highest quality requirements regarding robustness, insensitivity and reliability. We offer 5 years warranty - with money-back guarantee!

Pressure loss

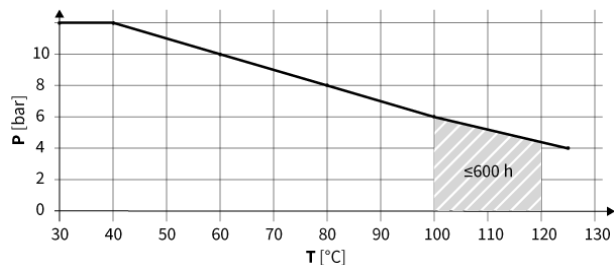


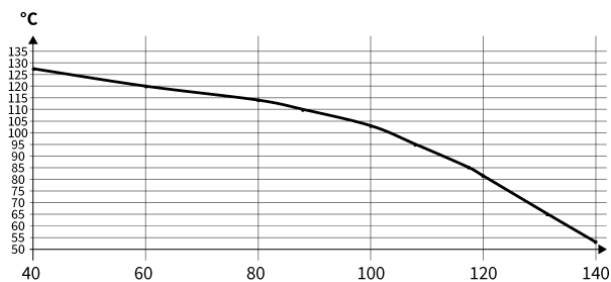
Pressure loss legend

dP: Pressure loss

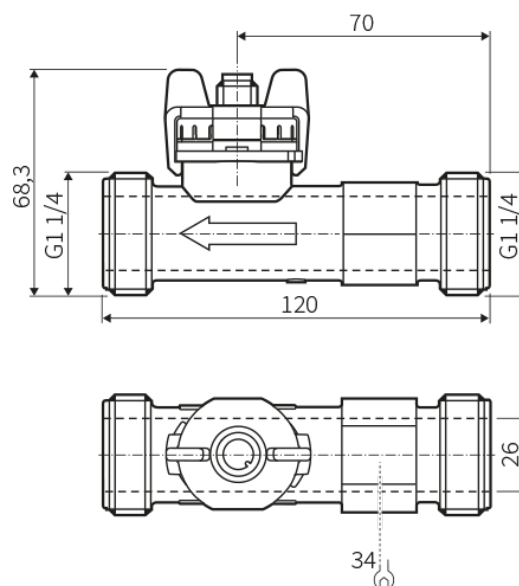
Q: Volumetric flow quantity

Pressure rating (bar)

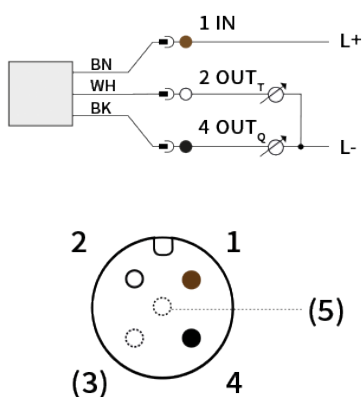




Dimensional drawing



Connection & pin assignment



Wiring & pin configuration legend

Q: volumetric flow quantity

T: temperature

Pin 1 & Pin 4 supply sensor with current; analog output on pin 2 is optional

General information

Range of application	water; glycol solutions; coolants
Flow measuring range	9.0 ... 150 l/min
Temperature measuring range min.	-25°C
Temperature measuring range max.	125°C

Outputs / inputs

Analogue output	4 ... 20 mA
	2 x
Comment on analogue output	When used with an analog output use exclusively sensor cables without LED
IO-Link	No

Electrical data

Operating voltage	8 ... 33 V DC
Voltage type	Direct voltage (DC)
Electrical design	PNP
Protection class	III

Mechanical data

Materials in contact with the medium	EPDM ETFE PA 6T
Union nut tightening torque	15 Nm
Material of housing	ETFE
Electrical connection	M12 Contacts gold-plated 3-pin
Pressure resistance	12 bar (up to 40 °C)
Process connection	Flat sealing DN25 G 1 1/4 External thread

Accuracy

Reproducibility	± 0.2% MREV * (flow monitoring)
Comment	* MV = measured value, MREV = measurement range end value
Accuracy	$Q < 50 \% \text{ MEW}: < 1 \% \text{ MEW} / Q > 50 \% \text{ MEW}: < 2 \% \text{ MW}; (\text{water}) \mid \pm 0,3 \text{ }^{\circ}\text{C} \pm 0,005 \times T$
Ready delay	< 2 s
Response time	0.5 s (flow monitoring)

Ambient conditions

Ambient temperature min.	-15°C
Ambient temperature max.	85°C
Cavitation	$P(\text{absolute}) \text{ discharge} / P(\text{difference}) > 5.5$ to avoid cavitation
Protection rating	IP65

Additional information

MTTF	380years
Accessories included with delivery	No accessories included
EMC test	EN 61326-2-3
Shock resistance test	DIN EN 60068-2-27
Vibration resistance test	DIN EN 60068-2-6
Pressure Equipment Directive	Sound Engineering Practice; can be used for group 2 fluids
Approval	CE
	KTW / W270