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Product Information

Flow Transmitter Lineflow RRF



- High accuracy / repeatability at low costs
- Determination of low flow rates
- Independent of location •

Characteristics

With the RRF flow meter, an inline turbine is fitted in a plastic housing. A Hall sensor detects, contact-free, the rotation of the turbine, and outputs a frequency signal proportional to the flow.

Technical data

Sensor	turbine fitted with magnets	
	with Hall sensor	
Nominal width	DN 10	
Process	male thread G ³ / ₈ A	
connection		
Metering range	0.530 l/min, for details see table	
	"Ranges and pressure	
Measurement	±3 % of the measured value	
accuracy		
Repeatability	±0.5 % of full scale value	
Medium	-20+100 °C	
temperature		
Ambient	080 °C	
temperature		
Pressure	PN 14 bar	
resistance		
Pressure loss	see table	
	"Ranges and pressure	loss"
Supply voltage	524 V DC at 8 mA	
Frequency output	NPN open collector at 50 mA max.	
	(1 to 2.2 K Ohm pull-up resistor required)	
Electrical	cable 1 m or	
connection	open plug contact 2.8/6.3 x 0.8	
Materials	Housing	PA 12
	Turbine	PA 12
	Bearing	PTFE 15 %
		graphite
Ingress protection	Cable	IP60
	Plug contact	IP00
Weight	0.04 kg	
Conformity	CE	

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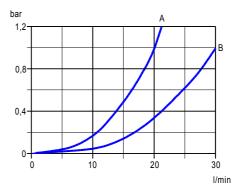


RRF

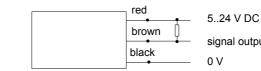
Ranges and pressure loss

Types	Metering range	Pulses/ litre	Frequency at Q _{max}	Pressure loss code
RRF- 010AN	I/min H₂O		Hz	(see diagram)
005	0.5 5	6900	575	A
010	1.010	3300	550	A
015	1.015	2200	550	А
030	2.030	1000	500	В

Pressure loss

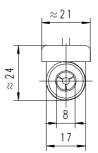


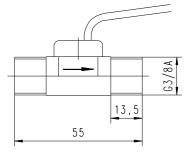
Wiring



signal output

Dimensions





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Product Information

Handling and Operation

Installation

The turbine's direction of flow is marked by an arrow on the housing. Ideally, flow should be from bottom to top. In any case, prevent entrapment of air. Pressure surges when starting up can damage the turbine. The turbine should therefore first be flooded slowly, and only then should the nominal flow be applied. It should preferably be installed ahead of and not after valves in order to prevent the turbine from running empty.

The turbine is sealed into the pipework using Teflon tape or similar. It should be ensured that the thread is not damaged by tightening too strongly. Bending forces on the turbine caused by the pipework must be avoided under all circumstances.



RRF

Ordering code



O=Option

1.	Nominal width		
	010	DN 10 - G ³ / ₈	
2.	Process connection		
	A	male thread	
3.	Housing material		
	N	nylon	
4.	Metering range		
	005	0.5 5 l/min	
	010	1.010 l/min	
	015	1.015 l/min	
	030	1.030 l/min	
5.	Electrical connection		
	К	cable connection	
	F O	open plug contact	

Accessories

- OMNI-TA converter / counter for control panel installation
- Counter EEZ-904

