

Turbine flow sensor type 2100

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The GF Turbine Flow Sensor Type 2100 is a flow sensor with resistance to chemicals and a high accuracy. The flow sensor is available in 2 versions.

APPLICATION

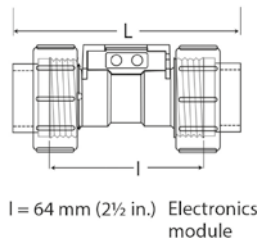
Applications in chemical installations such as pipes with small diameters / low flow rates

CHARACTERISTICS

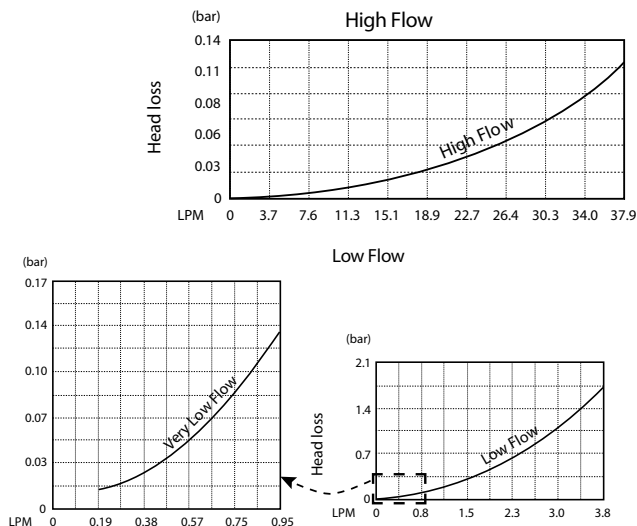
- ✓ Small and compact design
- ✓ Available in versions 0.38-3.8 l/min and 3-38 l/min
- ✓ Very low power consumption: Supply voltage between 5 and 24 VDC
- ✓ Open collector output signal
- ✓ Protected against incorrect connection of the polarity

Sizes: overall length (L)

Overall length	mm
All sockets	102
Butt fusion /IR	170
1/4" in. Barb	124
3/8" in. Barb	127
1/2" insert grommet	124



Head loss



TECHNICAL DATA

General

Flow range	: 0.38 - 3.8 l/min (Type L -Low flow)
	: 3.8 - 38 l/min (Type H - High Flow)
Pipe sizes	: DN 15 - PVC 20 mm
Max. pressure	: 16 bar (at 20°C) / 9.3 bar (at 70°C)
Max. temperature	: 70 °C
Ambient temperature	: -20 to 70 °C
Relative humidity	: 0 - 95% (non-condensing)

Electrical

Linearity	: +/- 3% of read-out
Accuracy	: +/- 0.5% of read-out
Cable type	: 2 wire 'twisted pair', shielded
Cable length	: 4.6 m / 300 m maximum
Output signal	: open collector transistor (30 mA max.)
Electric power supply	: 5 - 24 VDC stabilised (max. 1.5 mA)

Materials

Sensor (body / rotor)	: PVDF
O-rings	: FPM / EPR (EPDM)
Rotor shaft	: ceramic
Electronics	: PBT / EVA

INSTALLATION & MAINTENANCE

Installation

- ✓ Connection couplings for PVC 20 mm should be additionally ordered for installation in a PVC pipe.
- ✓ Observe the enclosed installation instructions for accurate measurement.

Calibration value

Type	Connection	K-factor (P/L)
Low Flow: 0,38-3,8 l/min	PVC - DN15	456
High Flow: 3,8 - 38 l/min	PVC - DN15	3236