

## Rotating Vane Flow Meter Model FL



- ◆ Measuring Range:  
0.025...0.5 to 1.0...25 L/min  
Water
- ◆ Pressure: max. 10 bar
- ◆ Temperature: max. 70 °C
- ◆ Measuring Accuracy:  
± 2.5% f. s.
- ◆ Material: Polypropylene
- ◆ Connection: G ½ (male)

**Cost Effective  
Measurement Technology**

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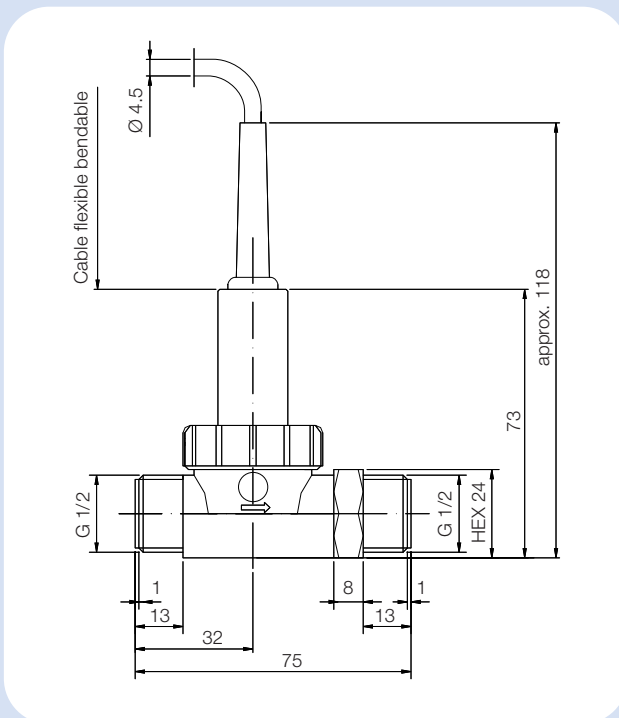
# Rotating Vane Flow Meter Model FL

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## Description

The INTERIN flow meter of model FL are used to measure and monitor liquids. All wetted parts are manufactured from non-metallic materials. For that reason, this flow meter is also suitable for use with extremely aggressive media. Its compact design allows the mini-turbine to be used in equipment, where space is at a premium. These flow meters work on rotating vane principle. The liquid flow sets the vane in rotation. The motion is sensed by opto-electronics and further converted into variable frequency signal. The frequency of generated signal is proportional to the rate of liquid-flow. The vane is provided with sapphire bearings, thus ensuring a high degree of linearity and long working life of the meter.

## Dimensions



## Technical Details

Housing:	Polypropylene
Connections:	G 1/2 (male)
Vane:	Polypropylene
Axle/Bearing:	Sapphire
Vane mount:	Polysulfone
Sealing:	Perbunan
Max. temperature:	-40...+70°C
Max. pressure:	10 bar
Meas. accuracy:	±2.5% f. s.
Linearity:	±1% f. s.
Mounting position:	vertical or horizontal, Flow in arrow-direction
Power supply:	24 V <sub>DC</sub> ± 20%
Supply current:	40 - 50 mA
Signal amplitude High:	approx. supply voltage
Signal amplitude LOW:	≤ 0.2 V
Output power loss:	2.5 Watt max.
Pulse output:	PNP, open collector, max. 20 mA
Electr. connection:	2 m PVC cable
Protection type:	IP 65

## Applications

- ◆ Beverage industry
- ◆ Beverage wending machines
- ◆ Washing machines
- ◆ Photo industry
- ◆ Printed circuit board industry
- ◆ Solar equipment

## Order Details (Example: FL-1600)

Meas. Range L/min H <sub>2</sub> O	Frequency [Hz] at Q <sub>nenn</sub>	Pressure Loss [bar] at Q <sub>nenn</sub>	Connection male	Electrical Connection	Rotating Vane Diameter FL Order No.
0.025 - 0.5	approx. 272	0.77	G 1/2	2 m PVC cable	<b>FL-1600</b>
0.05 - 1.8	approx. 471	0.77	G 1/2	2 m PVC cable	<b>FL-1602</b>
0.2 - 6	approx. 528	0.70	G 1/2	2 m PVC cable	<b>FL-1606</b>
0.4 - 12	approx. 265	1.0	G 1/2	2 m PVC cable	<b>FL-1612</b>
1 - 25	approx. 399	1.3	G 1/2	2 m PVC cable	<b>FL-1625</b>