Product Information

Flow Meter Turbine

A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Series MT40



Description

Unit for continuous flow detection of liquid media (particulary potable water).

The rotating magnetic field is detected without contact by a hall sensor from the outside and converted into pulses per revolution.

By means of the pulses thus generated the flow valve can be determined through a constant factor.

For volume flows smaller than the specified measuring range, the pulse frequencies must be determined separately.

The flow meter turbines are also available without reverberation detector and housing.

Applications

- Washing and rinsing equipment
- Automatic car washing systems
- General tank filling
- Potable water applications

Possible approvals

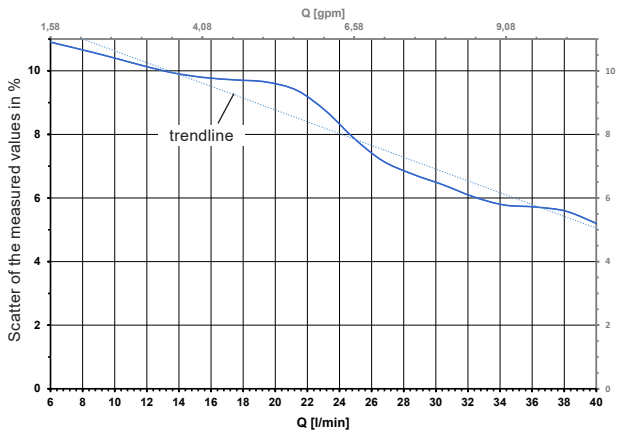
- KTW/W270
- KTW 85° and other approved versions available on request

Characteristics

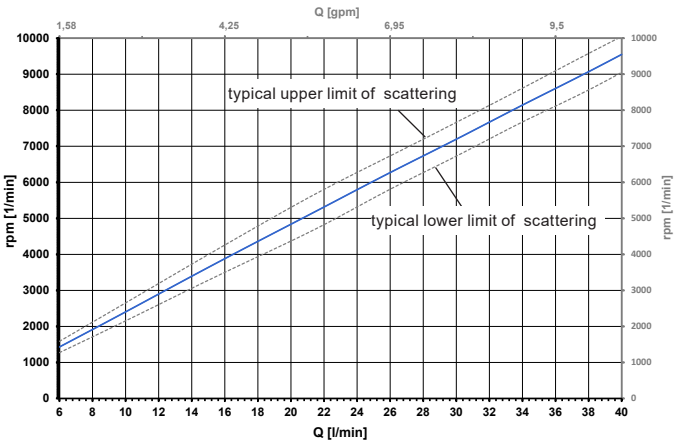
- Smooth start of the rotor
- Good accuracy
- Good reproducibility
- Easy to install unit
- Suitable for potable water applications

Scatter measured values series

Measuring factor 240 +/- 8% revolutions per liter



Frequency response MT 40 Q in revolutions/min

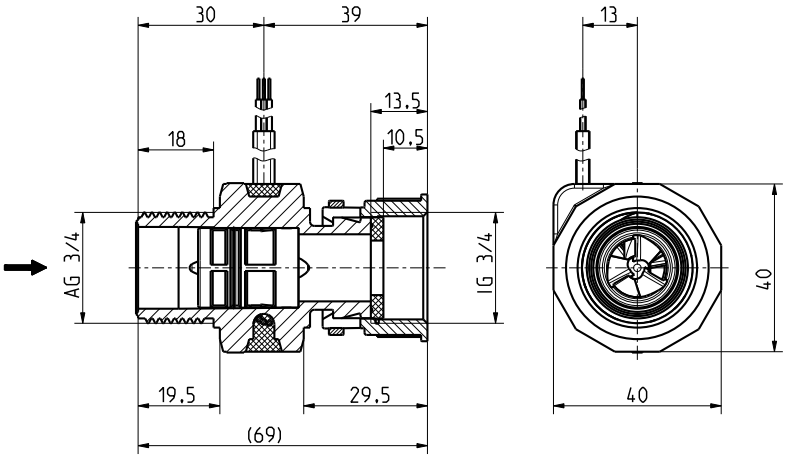


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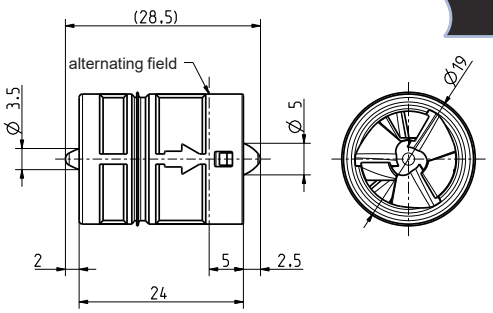
Technical Data

Type	flow meter turbine	
Design	completely self contained unit (also available without reverberation detector and housing)	
Function	volume flow determination for the setup of measuring and control loops	
Mounting position	any, for best results the turbine should always be filled with liquid	
Media	potable water and physically and chemically similar media	
T-Medium	90	°C max.
T-Ambient	60	°C max.
p-Operating	0 - 10	bar
Flow factor Kv	41,5	l/min
Measuring Range		
	6 - 40	l/min
	240 ± 8%	revolutions/l
Nominal voltages	4,5 - 24	V DC
	other voltages on request	
Cable length	440 ± 20 mm	
Connection	3 x 0,25² PVC LIYYW-FL red + blue - black Pulse output (one pulse per revolution)	
Signal output	open drain, n-channel	

Materials

Turbine Body	PPSU
Bearings	ruby - plastic floating bearing
Shaft	stainless steel
Magnets	strontium ferrite
Sensor Housing	PA66
Seals	EPDM

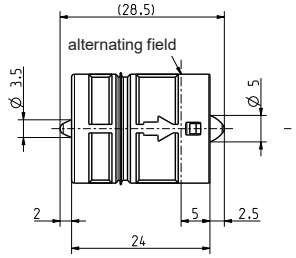
Flow Meter without sensor housing

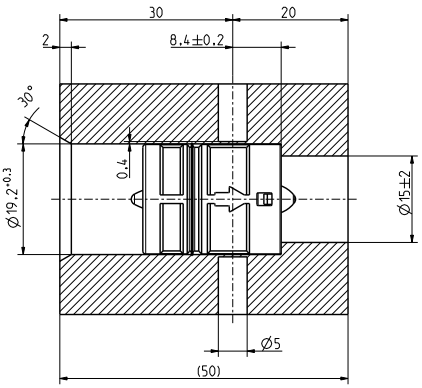




Options

Mounting Contour
(Flow Meter without sensor housing)





ATTENTION

Lifetime in continuous operation (40 l/min 24 h)	1.000.000 liter With a lower liter performance per minute, the lifetime will respectively be extended.

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