



Turbine flow sensors

FOR ELECTRICAL HEAT INTERFACE UNITS (HIU)

space-saving due to compact design

low wear and extremely long service life

pressure loss optimized

measuring range 1...45 l/min



Turbine flow sensors // VTY15



VTY15

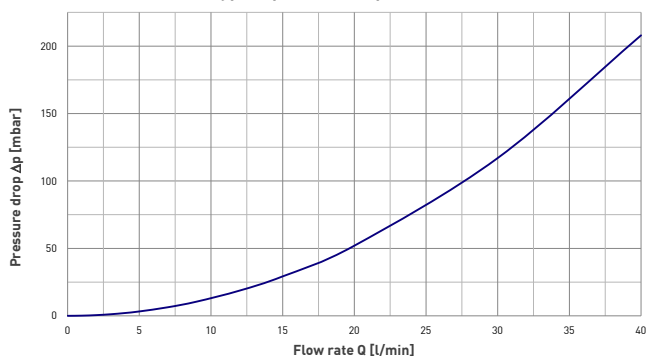
Your advantages

Series	VTY15
	<ul style="list-style-type: none"> • Space-saving due to compact design • Pressure loss optimized • Low wear and extremely long durability due to high quality bearing • Insensitive against water hammers, proven in numerous mass production applications • High measuring accuracy, mostly independent of fitting position due to integrated flow straightener

Technical data

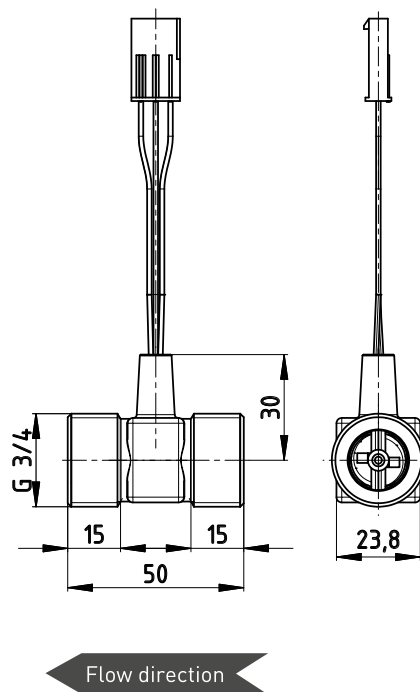
Material pipe section	Brass
Flow range	1...45 l/min
Accuracy	±2 % of range
Repeatability	±1 %
Signal output	From 0.8 l/min
Medium temperature	0...90 °C
Ambient temperature	0...70 °C
Pressure rating	PN 16
Nominal diameter	DN 15
Process connection	G 3/4 male thread
Sensor	Hall effect sensor
Output signal	Square wave - frequency signal, NPN open collector
Pulse duty ratio	50:50
Pulse rate / K-factor	235 Pulse/l
Electrical connection	80 mm single wire with Molex Mini-Fit® Jr. plug connector (part number 39-01-4036) optional: 0.5 m PVC cable
Power supply	4.5...24 VDC

Typical pressure drop VTY 15



Materials in contact with fluid

Pipe section	Brass CW617N-DW
Turbine cage	PPE+PS Noryl™ 30 % glass fibre reinforced
Rotor	PPE+PS Noryl™ 30 % glass fibre reinforced
Magnet	Hard ferrite
Shaft	Stainless steel / Hard metal
Axial bearing	Sapphire
Radial bearing	PEEK Victrex™
O-ring	EPDM



Push-in flow sensors // VTY15



VTY15

Your advantages

Series VTY15

- Space-saving due to compact design
- Pressure loss optimized
- Low wear and extremely long durability due to high quality bearing

① Push in turbine

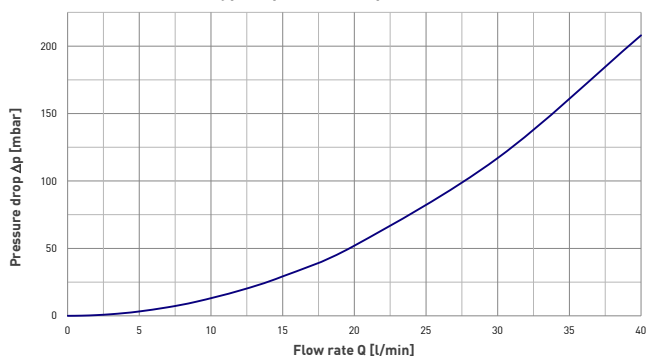
Flow range	1...45 l/min
Accuracy	±2 % of range
Repeatability	±1 %
Signal output	From 0.8 l/min
Medium temperature	0...90 °C
Nominal diameter	DN 15

② Hall effect sensor

Nominal pulse rate	235 pulses / l
Frequency output	frequency signal, NPN open collector
Power supply	4.5...24 VDC
Electrical connection	80 mm single wire with Molex Mini-Fit® Jr. plug connector (part number 39-01-4036) optional: 0.5 m PVC cable

Stated values may vary depending on geometry of fittings.

Typical pressure drop VTY 15

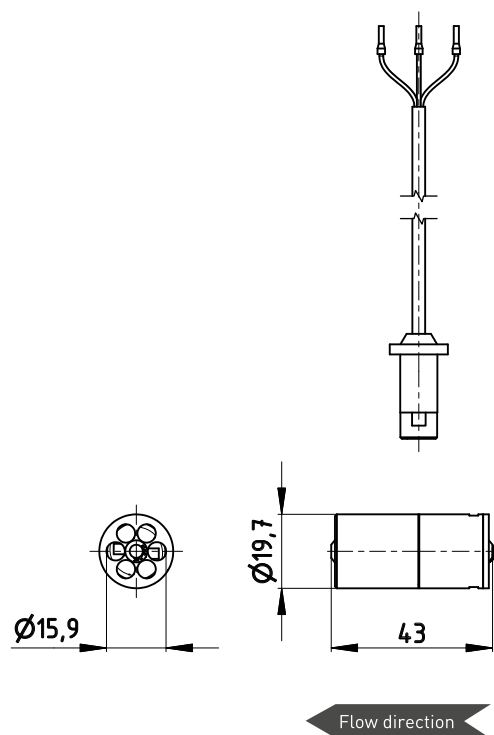


Determined in SIKA pipe tee.

Materials in contact with fluid

Push in turbine

Turbine body	PPE+PS Noryl™ 30 % glass fibre reinforced
Rotor	PPE+PS Noryl™ 30 % glass fibre reinforced
Magnet	Hard ferrite
Shaft	Stainless steel / Hard metal
Axial bearing	Sapphire
Radial bearing	PEEK





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