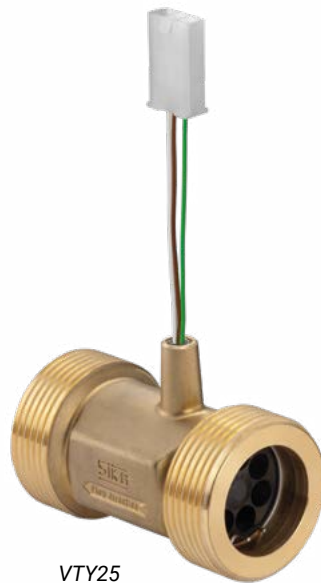


Turbine flow sensors // VTY25

for fluids



VTY25



Highlights

- Approved for drinking water
- Space-saving due to compact design
- Pressure loss optimized
- Low wear and extremely long service life due to high-quality bearings
- High measuring accuracy, largely independent of the installation position due to integrated flow straighteners

Technical data	VTY25
Material pipe section	Brass
Flow range	1...90 l/min (60...5.400 l/h)
Accuracy	±(1 % of range + 1 % of reading)
Repeatability	±1 %
Signal output	From 0.8 l/min (48 l/h)
Medium temperature	0...90 °C
Ambient temperature	0...70 °C
Pressure rating	PN 16
Nominal diameter	DN 25
Process connection	G 1 ¼ male thread
Sensor	Hall effect sensor
Output signal	Square wave frequency signal, NPN open collector
Pulse duty ratio	50:50
Pulse rate / K-factor	72 pulses/l
Electrical connection	80 mm single wires with Molex Mini-Fit® Jr. connector (part number 0039014036) optional: 0.5 m PVC cable or 1 m PVC cable
Power supply	4.5...24 VDC

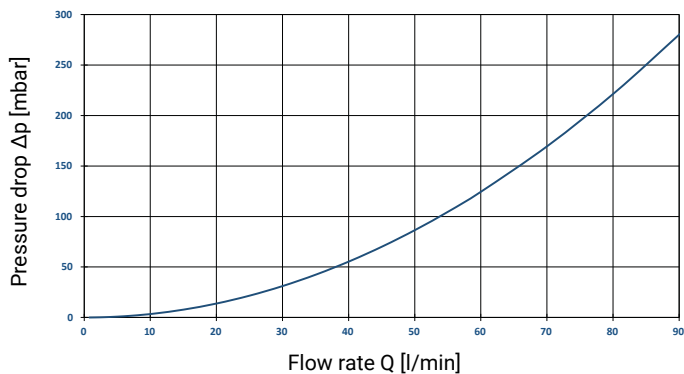
Drinking water approvals

KTW-BWGL: Product hygiene suitability for drinking water according to the 1+ system with external monitoring, [Certificate no. Z-346843-21-Hy112 Rev.01](#)
ACS (Attestation de conformité sanitaire), [Certificate no. 22 ACC LY 578](#)

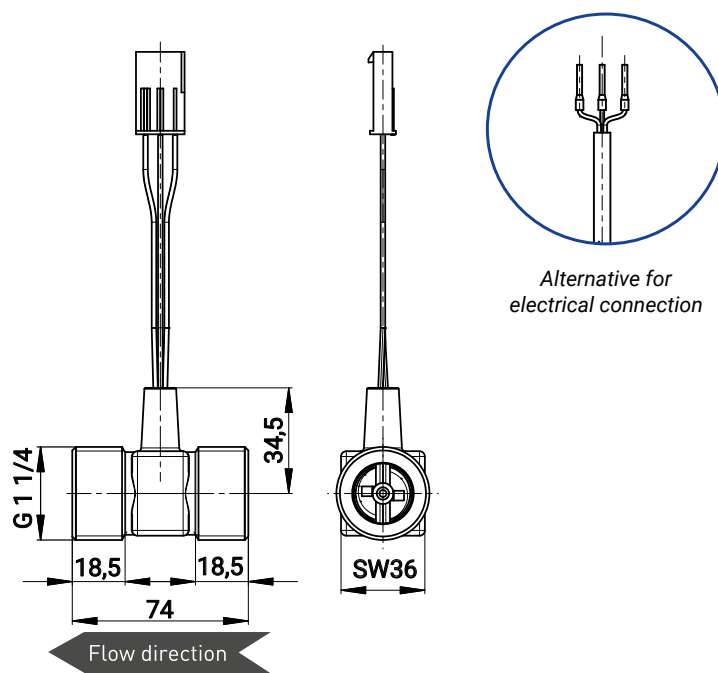


Typical pressure drop

Typical pressure drop VTY25



Dimensions

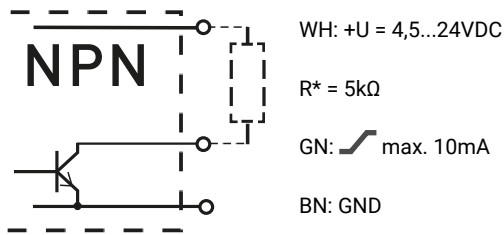


Materials

Materials in contact with fluid	
Pipe section	Brass CW617N-DW
Turbine cage	PPE+PS 30 % glass fibre reinforced
Rotor	PPE+PS 30 % glass fibre reinforced
Magnet	Hard ferrite
Shaft	Stainless steel / Hard metal
Axial bearing	Sapphire
Radial bearing	PEEK
Locking ring	Stainless steel

Wiring and pin assignment

Wiring

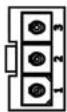


* Recommended pull-up resistance R ~ 5kΩ

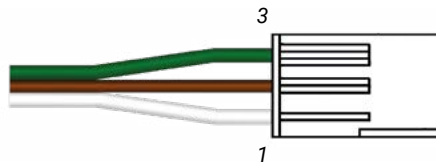
Colour code

WH = white
 GN = green
 BN = brown
 R = resistance

Pin assignment Molex Mini-Fit® plug



PIN3 = GN: max. 10mA
 PIN2 = BN: GND
 PIN1 = WH +U = 4,5...24VDC



Article numbers

Order code	
Typ	
VTY25	VY2590MAHN
Electrical connection	
80 mm single wires with Molex Mini-Fit® Jr. plug connector	X1A6
0.5 m PVC cable	05A6
1 m PVC cable	10A6
Example order number	VY2590MAHN X1A6