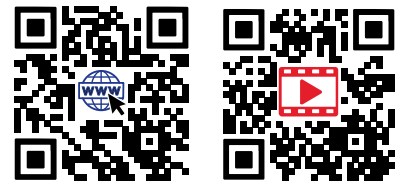


Turbine flow sensors // VTY15



Highlights

- 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

Material pipe section	Brass
Flow range	1...45 l/min (60...2.700 l/h)
Accuracy	±(1 % of range + 0.5 % of reading)
Repeatability	±1 %
Signal output	From 0.8 l/min (48 l/h)
Medium temperature	0...90 °C (non-freezing)
Ambient temperature	0...70 °C
Pressure rating	PN 16
Nominal diameter	DN 15
Process connection	G 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	234 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
Current consumption	Typ. 1.6 mA

Approvals

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](#)

WRAS (approved product), [Certificate no. 2012341](#)

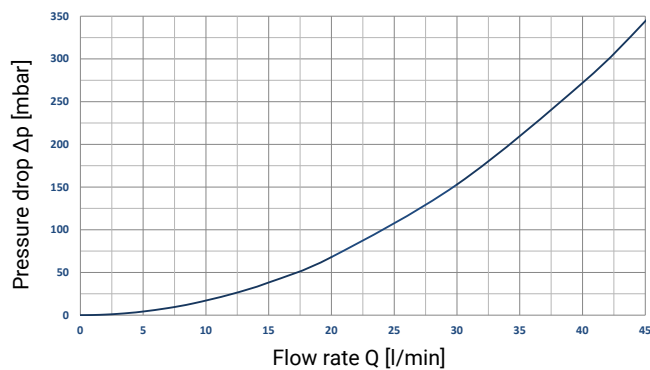
ACS (Attestation de conformité sanitaire), [Certificate no. 22 ACC LY 578](#)

Kiwa Regulation 4 (KUKreg4) Certification, [Certificate no. 2012725](#)



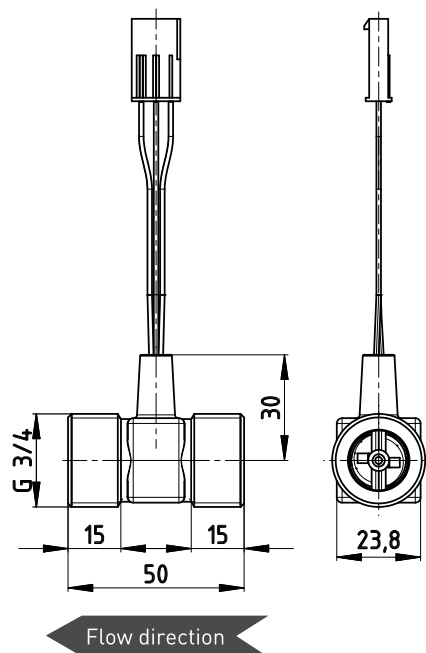
Typical pressure drop

Typical pressure drop

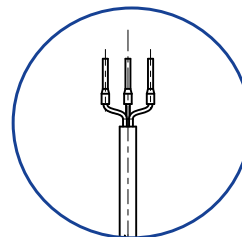


Technical drawings

VTY15



Alternative electrical connection

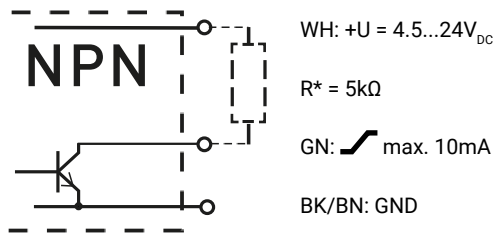


Materials

Materials in contact with media	
Pipe section	Messing CW617N-DW
Turbine cage	PPE+PS Noryl™ 30 % glass fiber reinforced
Rotor	PPE+PS Noryl™ 30 % glass fiber reinforced
Magnet	Hard ferrite
Shaft	Stainless steel / hard metal
Axial bearing	Sapphire
Radial bearing	PEEK
Locking ring	Stainless steel

Wiring // Pin assignment

Wiring

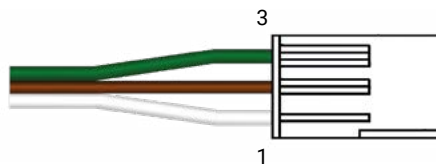
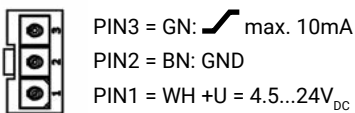


Colour code

WH = white
 GN = green
 BK = black (single wire)
 BN = brown (PVC cable / Molex)
 R = resistance

* Recommended pull-up resistance R ~ 5kΩ

Pin assignment Molex Mini-Fit® plug



Article numbers

Order code		
Type		
VTY15	VY1545MAHN	
Electrical connection		
80 mm single wires with Molex Mini-Fit® Jr. plug connector		X1A4
0.5 m PVC cable		05A4
1 m PVC cable		10A4
Example order number	VY1545MAHN	X1A4

Note minimum order quantities.

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