

Turbine flow sensors // VTY15



VTY15

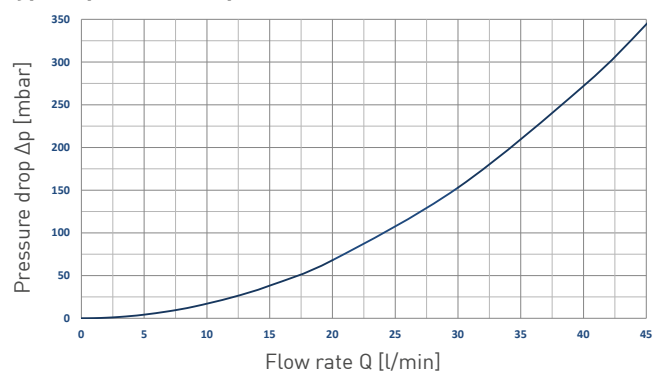
Your advantages

Series	VTY15
	• 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

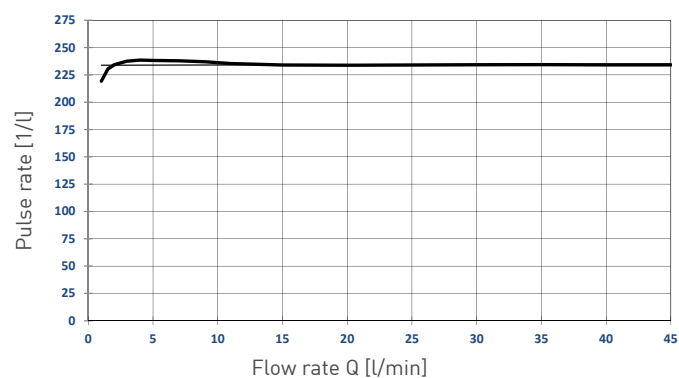
Technical data

Material pipe section	Brass
Flow range	1...45 l/min
Accuracy	±(1 % of range + 0.5 % of reading)
Repeatability	±1 %
Signal output	From 0.8 l/min
Medium temperature	0...90 °C (non-freezing)
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	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

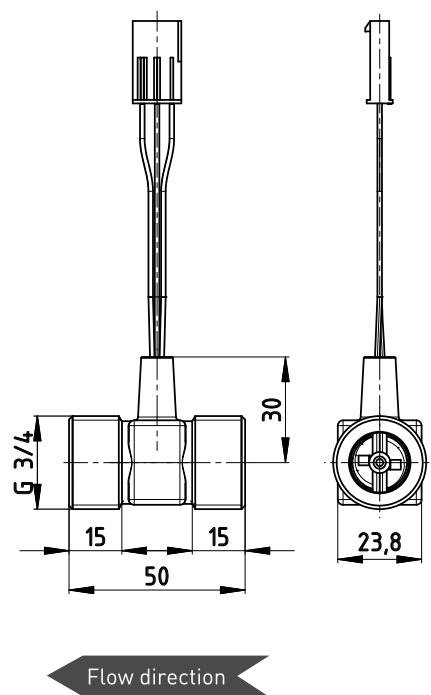
Typical pressure drop



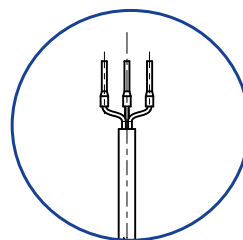
Characteristic curve



VTY15



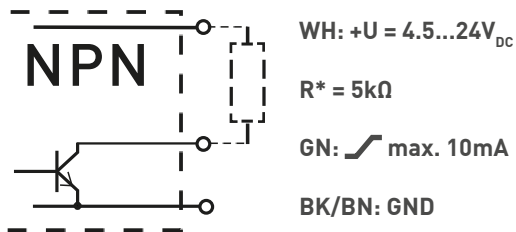
Alternative electrical connection



Materials in contact with media

Pipe section	Messing CW617N-DW
Turbine cage	PPE+PS Noryl™ 30 % glasfaserverstärkt
Rotor	PPE+PS Noryl™ 30 % glasfaserverstärkt
Magnet	Hard ferrite
Shaft	Stainless steel / hard metall
Axial bearing	Sapphire
Radial bearing	PEEK Victrex™
Locking ring	Stainless steel

Wiring

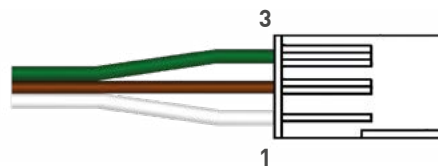
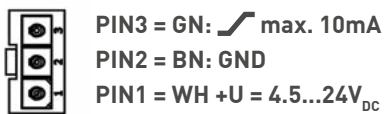


* Recommended pull-up resistance R ~ 5kΩ

Colour code

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

Pin assignment Molex Mini-Fit® plug



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

