

Turbine flow sensors // VTY20



VTY20

Your advantages

Series	VTY20
	<ul style="list-style-type: none"> • Low wear and extremely long durability due to high quality bearing • Practically no deviation in mass production due to fixed pulse rate, wide measuring span (up to 1:60), • High measuring accuracy, mostly independent of fitting position due to integrated flow straightener

Technical data

Material pipe section	Brass	Stainless steel
Flow range	1...60 l/min	
Accuracy	±1 % of range ±1 % 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 20	
Process connection	G 1 male thread	
Sensor	Hall effect sensor	
Output signal	Square wave - frequency signal, NPN open collector	
Pulse duty ratio	50:50	
Pulse rate / K-factor	119 pulses/l	122 pulses/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	2 m PVC cable
Power supply	4.5...24 VDC	
Pressure drop	0.33 bar (at Q = 60 l/min)	

Approvals



NSF/ANSI 372
NSF/ANSI 61



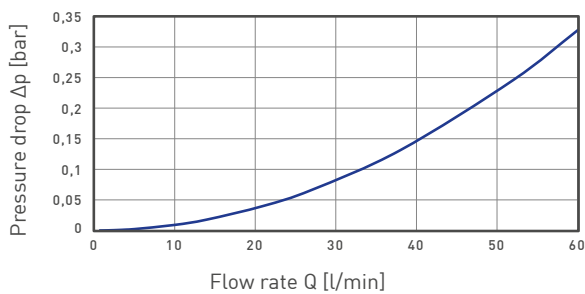
Available for:

VY2060MKHNX1N5
VY2060MKHN05N5

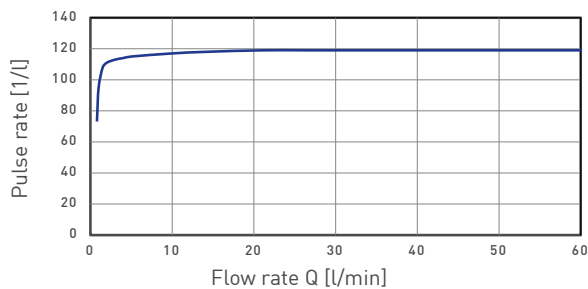
Version with G-thread on request

Plastic parts and O-Ring comply with KTW-guidance or the Elastomer Guideline of the German Federal Environmental Agency

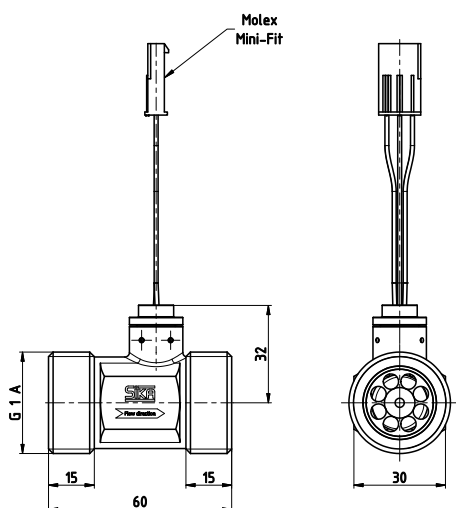
Typical pressure drop



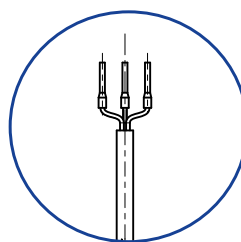
Characteristic curve



VTY20



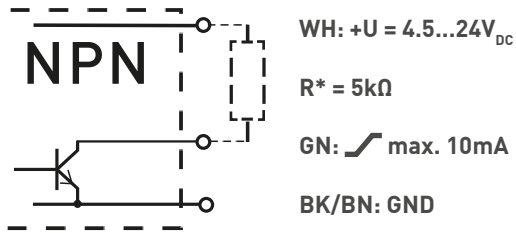
Alternative electrical connection



Materials in contact with fluid

Pipe section	Brass CW617N or stainless steel 1.4308
Turbine cage	PPE+PS Noryl™ 30 % glass fibre reinforced
Rotor	PPE+PS Noryl™ 30 % glass fibre reinforced
Magnet	Hard ferrite
Shaft	Stainless steel 1.4305 / Tungsten carbide
Axial bearing	Sapphire
Radial bearing	PEEK Victrex™
O-ring	EPDM

Wiring

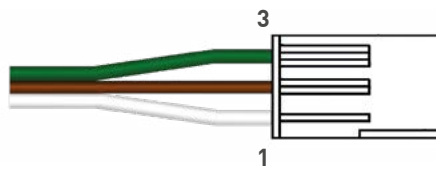
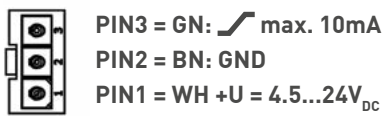


Colour code

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



Order code		
Type		
VTY20, brass	VY2060MAHN	
VTY20, stainless steel	VY2060VAHN	
Electrical connection		
80 mm single wire with Molex Mini-Fit® Jr. plug connector		X1A5
0.5 m PVC cable		05A5
2 m PVC cable		20A5
Example order number	VY2060MAHN	X1A5

Note minimum order quantities.

