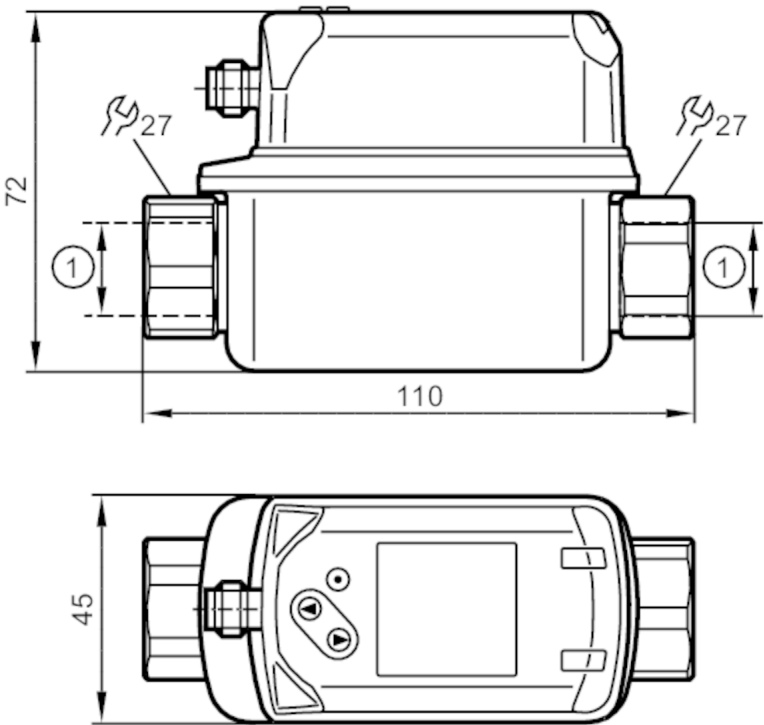


SV4504



Vortex flow meter with display

SVK12XXX50KG/US-100



1 Rc 1/2
DN 8



Application	
Application	for industrial applications
Media	water
Medium temperature [°C]	-10...90
Pressure rating [bar]	12
Note on pressure rating	up to 40 °C
Electrical data	
Operating voltage [V]	18...30 DC
Current consumption [mA]	< 30
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	< 3
Inputs / outputs	
Number of inputs and outputs	Number of analogue outputs: 2



Vortex flow meter with display

SVK12XXX50KG/US-100

Outputs		
Total number of outputs	2	
Output signal	analogue signal	
Number of analogue outputs	2	
Analogue current output [mA]	4...20	
Max. load [Ω]	500	
Short-circuit protection	yes	
Overload protection	yes	
Measuring/setting range		
Measuring range	1...20 l/min	0.06...1.2 m³/h
Display range	0...24 l/min	0...1.44 m³/h
Resolution	0.1 l/min	0.005 m³/h
Analogue start point ASP	0...16 l/min	0...0.96 m³/h
Analogue end point AEP	4...20 l/min	0.24...1.2 m³/h
Measuring dynamics	1:20	
In steps of	0.1 l/min	0.005 m³/h
Temperature monitoring		
Measuring range [°C]	-10...90	
Display range [°C]	-30...110	
Resolution [°C]	0.5	
Analogue start point [°C]	-10...70	
Analogue end point [°C]	10...90	
In steps of [°C]	0.5	
Accuracy / deviations		
Flow monitoring		
Accuracy (in the measuring range)	± 2 % MEW	
Repeatability	± 0,5 % MEW	
Temperature monitoring		
Accuracy [K]	± 1	
Response times		
Flow monitoring		
Response time [s]	1; (dAP = 0)	
Damping for the switching output dAP [s]	0...5	
Temperature monitoring		
Dynamic response T05 / T09 [s]	T09 = 6	
Software / programming		
Parameter setting options	Damping for the analogue output dAA; Display unit	

SV4504



Vortex flow meter with display

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Operating conditions		
Ambient temperature	[°C]	0...60
Note on ambient temperature		medium temperature < 80 °C
		medium temperature < 90 °C: 0...50 °C
Storage temperature	[°C]	-20...80
Protection		IP 65; IP 67

Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	5 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	with water / 10...50 Hz 1 mm
		with water / 50...2000 Hz 2 g
MTTF	[years]	342
UL approval	UL Approval no.	I002
Pressure Equipment Directive	Sound Engineering Practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data		
Weight	[g]	448.3
Materials	stainless steel (1.4404 / 316L); PC; PBT+PC-GF30; PPS; TPE-U	
Materials (wetted parts)	stainless steel (1.4404 / 316L); ETFE; PA 6T; PPS; FKM	
Tightening torque	[Nm]	30
Process connection	threaded connection Rc 1/2 internal thread DN8	

Remarks		
Remarks	MW = measured value	
	MEW = Final value of the measuring range	
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12; Contacts: gold-plated

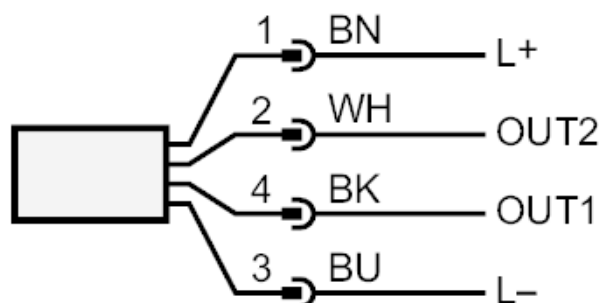




Vortex flow meter with display

SVK12XXX50KG/US-100

Connection



OUT1: analogue output Temperature monitoring

OUT2: analogue output volumetric flow quantity monitoring

colours to DIN EN 60947-5-2

Core colours :

BK = black

BN = brown

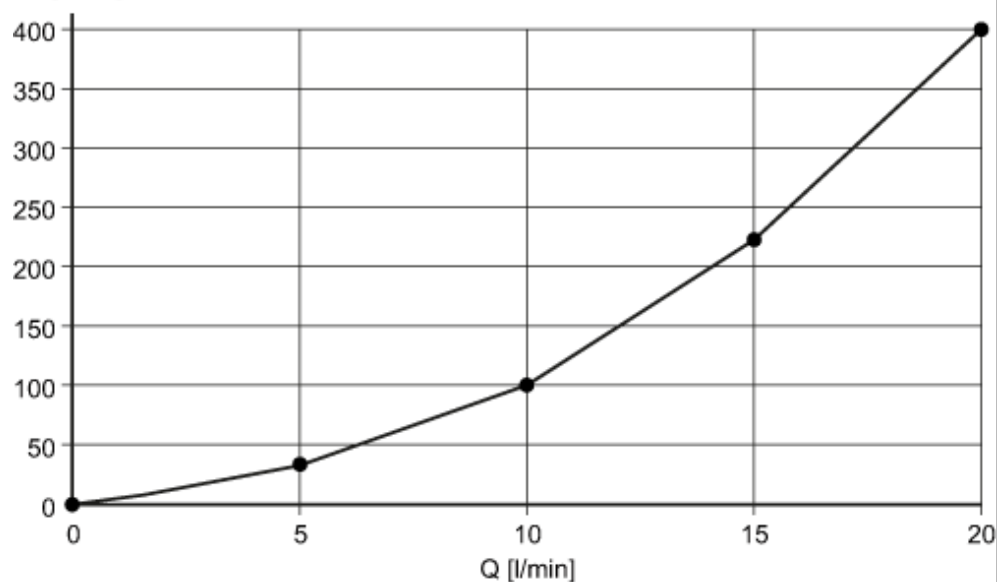
BU = blue

WH = white

Diagrams and graphs

Pressure loss

dP [mbar] DN8



dP Pressure loss

Q volumetric flow quantity

SV4504



Vortex flow meter with display

SVK12XXX50KG/US-100

pressure rating (bar)

