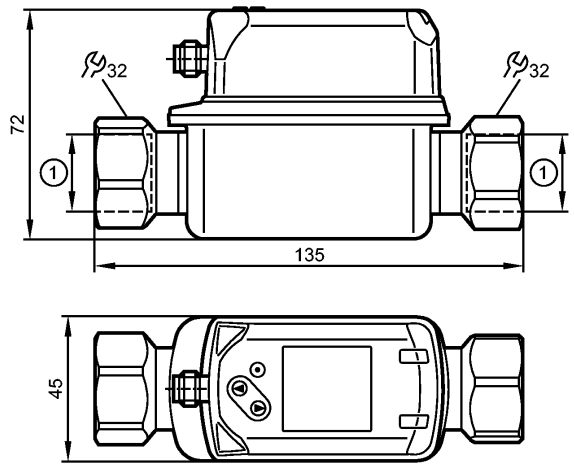
SV7504

SVK34XXX50KG/US-100

Flow sensors



1: Rc ¾
DN 20

Product characteristics

Vortex flow meter

DN 20

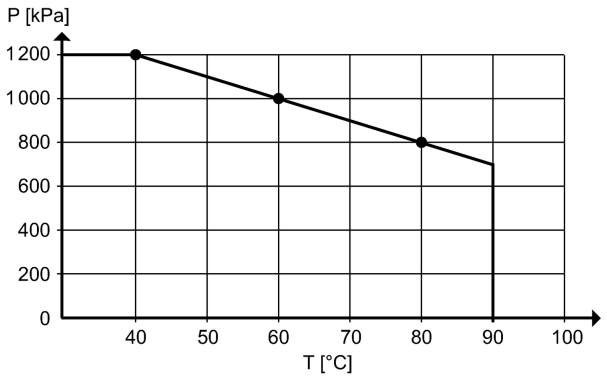
Process connection: Rc ¾

Measuring range

5...100 l/min

-10...90 °C

Application

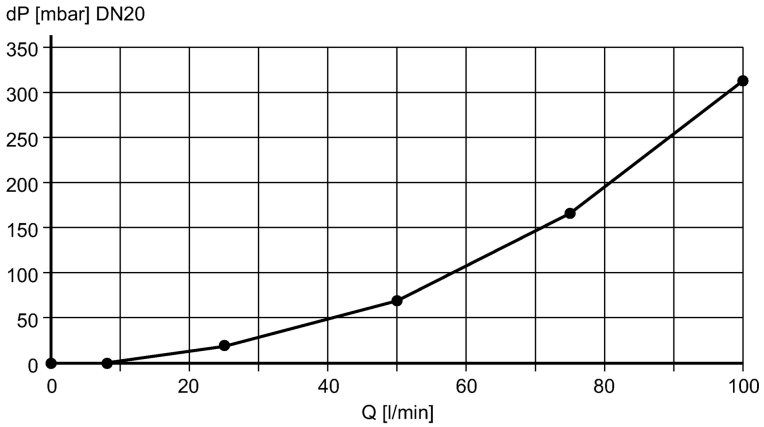
Application		Liquids of the fluid group 2 according to the Pressure Equipment Directive (PED): Water, deionised water, cooling water
Pressure rating [bar]		
Pressure rating	[bar]	12; (up to 40 °C)
Medium temperature	[°C]	-10...90

Electrical data

Electrical design		DC
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 30
Insulation resistance	[MΩ]	> 100 (500 V DC)
Protection class		III
Reverse polarity protection		yes

Outputs

Output function	OUT1 = analogue signal temperature OUT2 = analogue signal flow

Short-circuit protection		yes	
Overload protection		yes	
Analog output		4...20 mA	
Max. load	[Ω]	500	
Measuring / setting range			
Flow monitoring			
Measuring range		5...100 [l/min]	0.3...6 [m³/h]
Display range		0...120 [l/min]	0...7.2 [m³/h]
Resolution		0.5 [l/min]	0.02 [m³/h]
Analog start point, ASP		0...80 [l/min]	0...4.8 [m³/h]
Analog end point, AEP		20...100 [l/min]	1.2...6 [m³/h]
in steps of		0.5 [l/min]	0.02 [m³/h]
Measuring dynamics		1:20	
Temperature monitoring			
Measuring range	[°C]	-10...90	
Display range	[°C]	-30...110	
Resolution	[°C]	0.5	
Analog start point, ASP	[°C]	-10...70	
Analog end point, AEP	[°C]	10...90	
in steps of	[°C]	0.5	
Accuracy / deviations			
Flow monitoring			
Accuracy	[% of the final value]	± 2 % MEW	
Repeatability		± 0.5 % MEW	
Pressure loss (dP) / flow rate (Q)			
Temperature monitoring			
Accuracy	[K]	± 1	
Reaction times			
Power-on delay time	[s]	< 3	
Flow monitoring			
Response time	[s]	< 1 (dAP = 0)	
Damping, dAP	[s]	0...5	
Temperature monitoring			
Response time	[s]	T09 = 6	
Software / programming			
Programming options		Damping for the analog output (dAA); Display unit	

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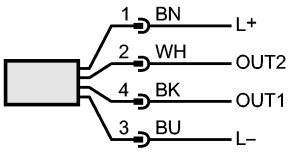
Flow sensors

Environment			
Ambient temperature	[°C]	0...60, at max. 80 °C medium temperature (0...50 °C at max. 90 °C medium temperature)	
Storage temperature	[°C]	-20...80	
Protection		IP 65 / IP 67	
Tests / approvals			
Pressure equipment directive		sound engineering practice	
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
UL approval number		I002	
Mechanical data			
Process connection		Rc ¾	
Materials (wetted parts)		stainless steel (316L / 1.4404); ETFE; PA 6T; PPS; FKM	
Housing materials		stainless steel (316L / 1.4404); PC; PBT+PC-GF 30; PPS; TPE-U	
Tightening torque	[Nm]	30	
Weight	[kg]	0.496	
Electrical connection			
Connection		M12 connector; gold-plated contacts	

Wiring

Core colors

BK black
BN brown
BU blue
WH white



OUT1: analogue output temperature
OUT2: analogue output flow rate
Colours to DIN EN 60947-5-2

Remarks			
Remarks		MW = measured value MEW = final value of the measuring range	
Pack quantity	[piece]	1	