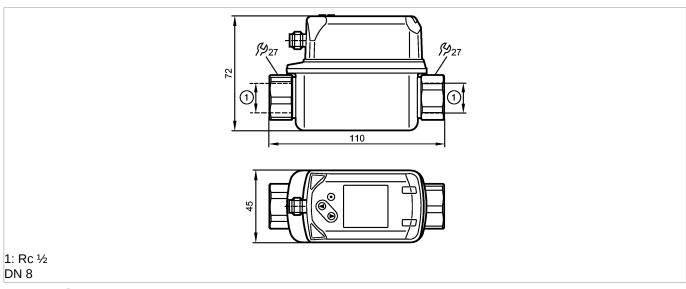
SV4504

SVK12XXX50KG/US-100 Flow sensors







Product characteristics

Vortex flow meter

DN 8

Process connection: Rc $\frac{1}{2}$

Measuring range

1...20 I/min

-1090 °C			
Application			
Application		Liquids of the fluid group 2 according to the Pressure Equipment Directive (PED): Water, deionised water, cooling water	
Pressure rating [bar]		P [kPa] 1200 1000 800 600 400 200 0 T [°C]	
Pressure rating	[bar]	12; (up to 40 °C)	
Medium temperature	[°C]	-1090	
Electrical data			

Electrical data				
Electrical design		DC		
Operating voltage	[V]	1830 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



SV4504

SVK12XXX50KG/US-100



Flow sensors

Short-circuit protection		у	es	
Overload protection		yes		
Analog output		420 mA		
Max. load	[Ω]	500		
Measuring / setting range				
Flow monitoring				
Measuring range		120 [l/min]	0.061.2 [m³/h]	
Display range		024 [l/min] 01.44 [m³/h]		
Resolution		0.1 [l/min] 0.005 [m³/h]		
Analog start point, ASP		016 [l/min] 00.96 [m³/h]		
Analog end point, AEP		420 [l/min]	0.241.2 [m³/h]	
in steps of		0.1 [l/min]	0.005 [m³/h]	
Measuring dynamics		1:20		
Temperature monitoring				
Measuring range	[°C]	-10	90	
Display range	[°C]	-30110		
Resolution	[°C]	0.5		
Analog start point, ASP	[°C]	-1070		
Analog end point, AEP	[°C]	1090		
in steps of	[°C]	0.5		
Accuracy / deviations				
Flow monitoring				
Accuracy [% of the fin	al value]	± 2 % MEW		
Repeatability		± 0.5 % MEW		
Pressure loss (dP) / flow rate (Q)		dP [mbar] DN8		
		400	1	
		350		
		300		
		250		
		200		
		150		
		100		
		50		
		0		
		0 5	10 15 20	
Tomporative manifestics		C	[/min]	
Temperature monitoring	[1/1]		:1	
Accuracy Reaction times	[K]	<u> </u>	. 1	
	[6]		: 3	
Power-on delay time Flow monitoring	[s]		. 3	
Response time	[s]	~ 1 /d	$\Delta P = 0$	
Damping, dAP	[s]	< 1 (dAP = 0)		
Temperature monitoring	[5]	05		
Response time	[s]	T09 = 6		
Software / programming	[J]	103		
Software / programming				



SVK12XXX50KG/US-100



Flow sensors

Programming options		Damping for the analog output (dAA); Display unit		
Environment				
Ambient temperature	[°C]	060, at max. 80 °C medium temperature (050 °C at max. 90 °C medium temperature)		
Storage temperature	[°C]	-2080		
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		with water 1050 Hz: 1 mm DIN EN 60068-2-6 with water 502000 Hz: 2 g		
UL approval number		1002		
Mechanical data				
Process connection		Rc ½		
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]	0.448		
Electrical connection				
Connection		M12 connector; gold-plated contacts		
Wiring Core colors BK black BN brown BU blue WH white	2 2	1 BN L+ 2 WH OUT2 4 BK OUT1 3 BU L-		
		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		

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