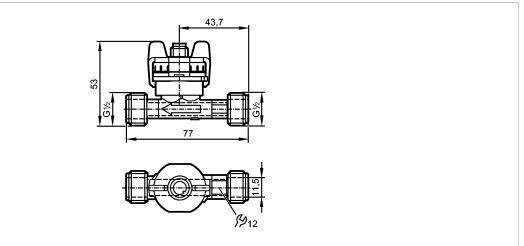
efector300°

SV4050

SVM12XXXD0KG/US-100



Flow sensors



(€

Product characteristics

Vortex flow meter

DN 8

Quick disconnect

Process connection: G 1/2

connection to pipe by means of an adapter

flow monitoring

Measuring range

0.9...15 l/min

Temperature monitoring

Measuring range

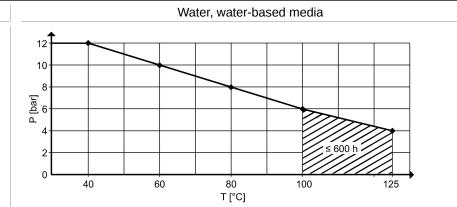
-40...100 °C

Measuring element: 1 x Pt 1000, to DIN EN 60751, class B

Application

Application

Pressure rating [bar]



Pressure rating	[bar]	12; (up to 40 °C)
Medium temperature	[°C]	-40100

Electrical data		
Electrical design		DC
Operating voltage	[V]	833
Insulation resistance	[ΜΩ]	> 100 (500 V DC)
Protection class		III

Outputs

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Flow sensors

Output function	analog
Analog output	420 mA
Max. load $[\Omega]$	< (Ub - 8 V) / 20 mA 800 at Ub = 24 V

Measuring / setting range

Flow monitoring

Measuring range 0.9...15 [l/min] 0.133...2.210 [m/s]

Output curve $Q [l/min] = 0.938 \times (l - 4 mA)$

Temperature monitoring

Measuring range [°C] -40...100
Internal heating temperature probe 1 K/mW

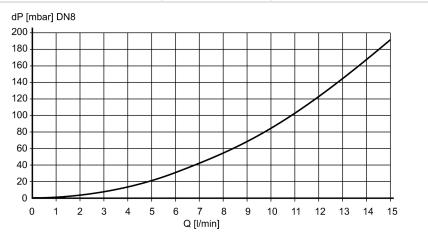
Accuracy / deviations

Flow monitoring

Accuracy Q < 50 % MEW (water): < 1 % MEW Q > 50 % MEW (water): < 2 % MW

Repeatability 0.2; [% of the final value]

Pressure loss (dP) / flow rate (Q)



Temperature monitoring

Accuracy [K] $\pm 0.3 \pm 0.005 \text{ x T}$

Dag	ctior	tim	100
10000			1100

Power-on delay time [s] < 2

Flow monitoring

Response time [s] < 0.5

Environment		
Cavitation		P(absolute) discharge / P(difference) > 5.5 to avoid cavitation
Ambient temperature	[°C]	-1585
Storage temperature	[°C]	-3085

Protection IP 65

Tests / approvals			
Pressure equipment directive		article 3, section 3 - sound engineering practice	
EMC		EN 61326-2-3	
Shock resistance		DIN EN 60068-2-27	30 g (11 ms)
Vibration resistance		DIN EN 60068-2-6	with water 1061 Hz: 1 mm with water 612000 Hz: 2 g
MTTF	[Years]		380

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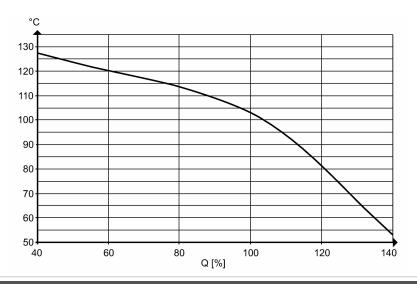
SV4050

SVM12XXXD0KG/US-100



Flow sensors

Minimum lifetime 10 years referred to flow and high medium temperatures



Mechanical data				
Process connection			G ½	
Materials (wetted parts)		ETFE; PA 6T; FKM		
Housing materials			PA 6T	
Tightening torque	[Nm]	12		
Weight	[kg]		0.144	

Electrical connection

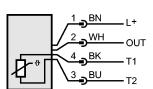
Connection

M12 connector; gold-plated contacts

Wiring

Core colors
BK black
BN brown
BU blue
WH white





OUT: analog T1 / T2: Pt1000

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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