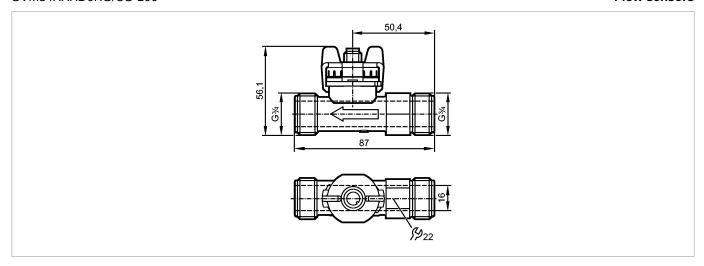
## efector300

## SV6150

SVM34XXXD0KG/US-100



Flow sensors



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## Product characteristics

Vortex flow meter

DN 15

Quick disconnect

Process connection: G ¾

connection to pipe by means of an adapter

flow monitoring

Measuring range

3.5...50 I/min

Temperature monitoring

Measuring range

-40...100 °C

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

## 

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

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

#### Outputs

## efector300°



SVM34XXXD0KG/US-100



Flow sensors

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

## Measuring / setting range

Flow monitoring

Measuring range 3.5...50 [l/min] 0.290...4.145 [m/s]

Output curve Water:  $Q [l/min] = 3.125 \times (l - 4 \text{ mA})$ 

Water-glycol: Q [l/min] =  $3.125 \times (I - 4 \text{ mA})$  - Qo, see figure (2)

Temperature monitoring

Measuring range [°C] -40...100

Internal heating temperature probe 1 K/mW

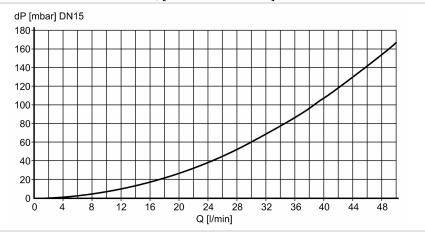
#### Accuracy / deviations

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)

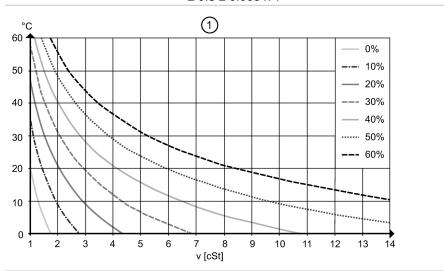


## Temperature monitoring

Accuracy [K]

Determination of the kinematic viscosity (v) of glycol-water mixtures depending on the temperature





# efector30°

## SV6150

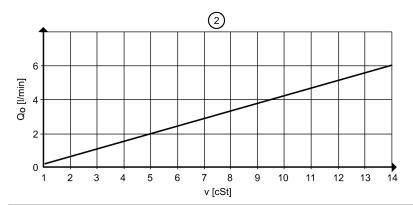
SVM34XXXD0KG/US-100



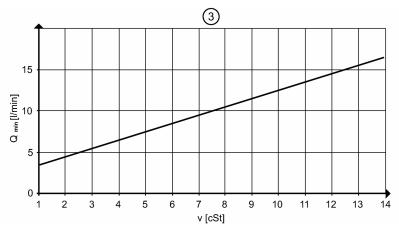
Flow sensors

Determination of the compensation value Qo for glycol-water mixtures

v < 4 c S t : measuring accuracy of 3 % MEW 4 < v < 1 4 c S t : measuring accuracy of 4 % MEW



Response threshold Q(min) depending on the kinematic viscosity



Reaction times			
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, -3085 at a medium temperature $> 0$ °C	
Storage temperature	[°C]	-3085	
Protection		IP 65	

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

# efector300°

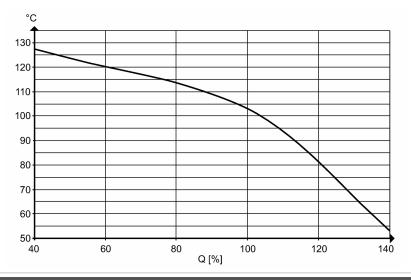


SVM34XXXD0KG/US-100



Flow sensors

Minimum lifetime 10 years referred to flow and high medium temperatures



Mechanical data			
Process connection			G ¾
Materials (wetted parts)			ETFE; PA 6T; EPDM
Housing materials			PA 6T
Tightening torque	[Nm]	12	
Weight	[kg]		0.157

## **Electrical connection**

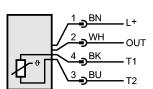
Connection

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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