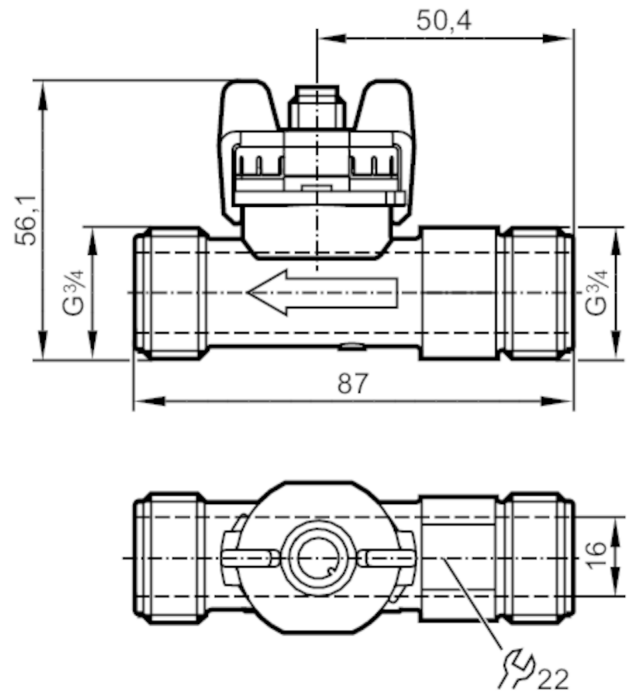


SV6150



Vortex flow meter

SVM34XXXD0KG/US-100



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	3.5...50 l/min	0.29...4.145 m/s
Process connection	threaded connection G 3/4 DN15	

Application

Special feature	Gold-plated contacts	
Measuring element	1 x Pt 1000; (to DIN EN 60751, class B)	
Application	for industrial applications	
Installation	connection to pipe by means of an adapter	
Media	water; glycol solutions; coolants	
Medium temperature	[°C]	-40...100
Min. bursting pressure	[bar]	25
Min. bursting pressure	[MPa]	2.5
Pressure rating	[bar]	12
Pressure rating	[MPa]	1.2
Note on pressure rating	up to 40 °C	

Electrical data

Operating voltage	[V]	8...33 DC
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Power-on delay time	[s]	< 2

Inputs / outputs

Number of inputs and outputs	Number of analogue outputs: 1
------------------------------	-------------------------------



Vortex flow meter

SVM34XXXD0KG/US-100

Outputs		
Total number of outputs	1	
Output signal	analogue signal	
Number of analogue outputs	1	
Analogue current output [mA]	4...20; (water: Q [l/min] = 3,125 x (I - 4 mA); water-glycol: Q [l/min] = 3,125 x (I - 4 mA) - Qo see Figure 2)	
Max. load [Ω]	< (Ub - 8 V) / 20 mA; Ub = 24 V: 800	
Measuring/setting range		
Measuring range	3.5...50 l/min	0.29...4.145 m/s
Temperature monitoring		
Internal heating temperature probe	1 K/mW	
Measuring range [°C]	-40...100	
Accuracy / deviations		
Flow monitoring		
Accuracy (in the measuring range)	Q < 50 % MEW: < 1 % MEW / Q > 50 % MEW: < 2 % MW; (water)	
Repeatability	0,2; (% of the final value)	
Temperature monitoring		
Accuracy [K]	± 0,3 ± 0,005 x T	
Response times		
Flow monitoring		
Response time [s]	0.5	
Operating conditions		
Ambient temperature [°C]	-15...85	
Note on ambient temperature	medium temperature > 0 °C: -30...85	
Storage temperature [°C]	-30...85	
Protection	IP 65	
Cavitation	P(absolute) discharge / P(difference) > 5.5 to avoid cavitation	
Tests / approvals		
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 / 10...61 Hz 1 mm
		with water / 61...2000 Hz 2 g
MTTF [years]	380	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data		
Weight [g]	76.5	
Materials	PA 6T	
Materials (wetted parts)	ETFE; PA 6T; EPDM	
Tightening torque [Nm]	12	
Process connection	threaded connection G 3/4 DN15	

SV6150



Vortex flow meter

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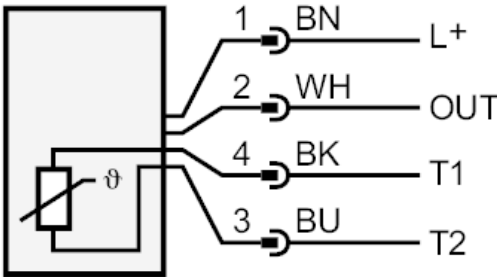
Remarks	
Remarks	MW = measured value
	MEW = Final value of the measuring range
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



OUT: analogue output
T1 / T2: Pt1000
colours to DIN EN 60947-5-2
Core colours :
BK = black
BN = brown
BU = blue
WH = white

SV6150

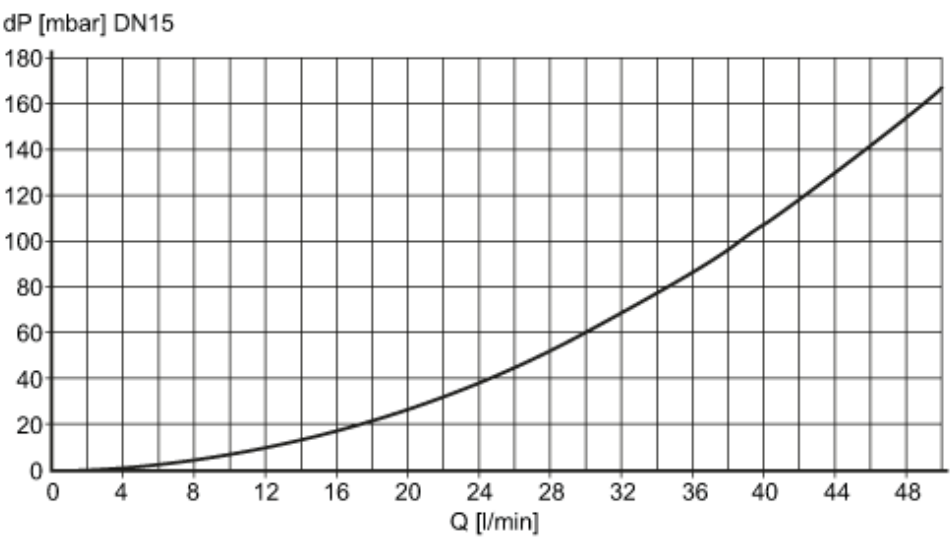


Vortex flow meter

SVM34XXD0KG/US-100

Diagrams and graphs

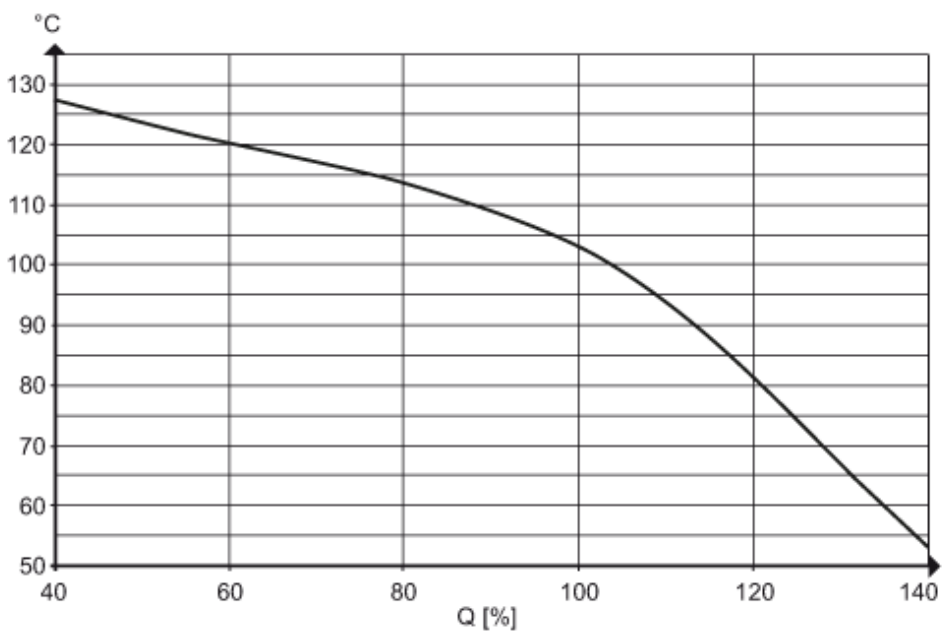
Pressure loss



dP Pressure loss

Q volumetric flow quantity

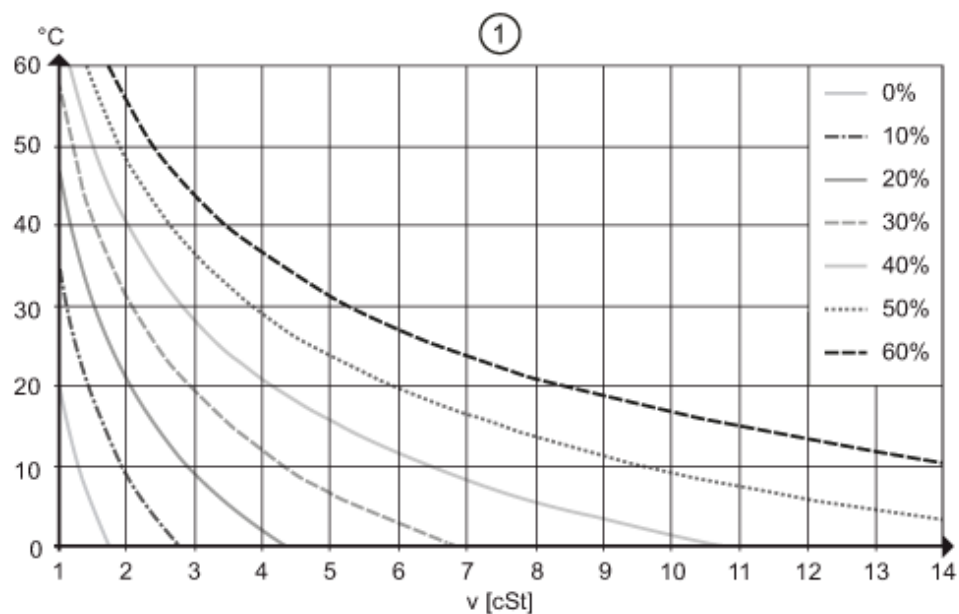
min. life 10 years referred to flow
and high medium temperatures



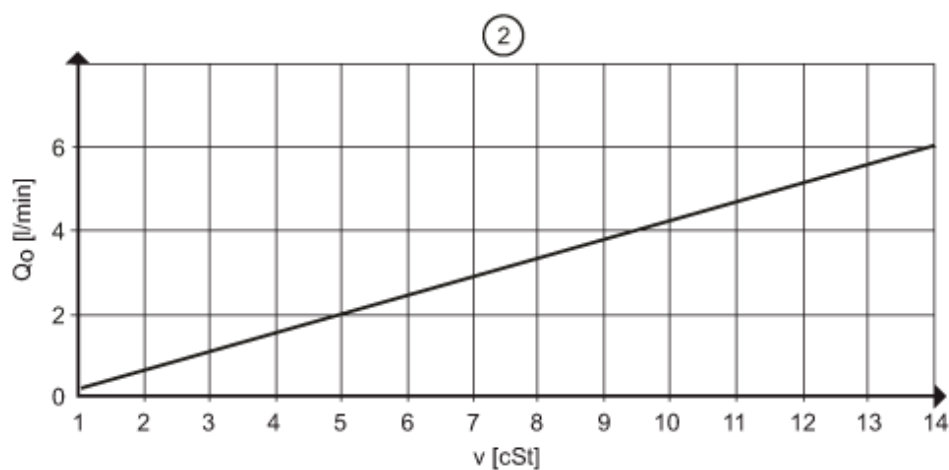
Vortex flow meter

SVM34XXD0KG/US-100

determination of the kinematic viscosity (ν) of glycol-water mixtures depending on the temperature



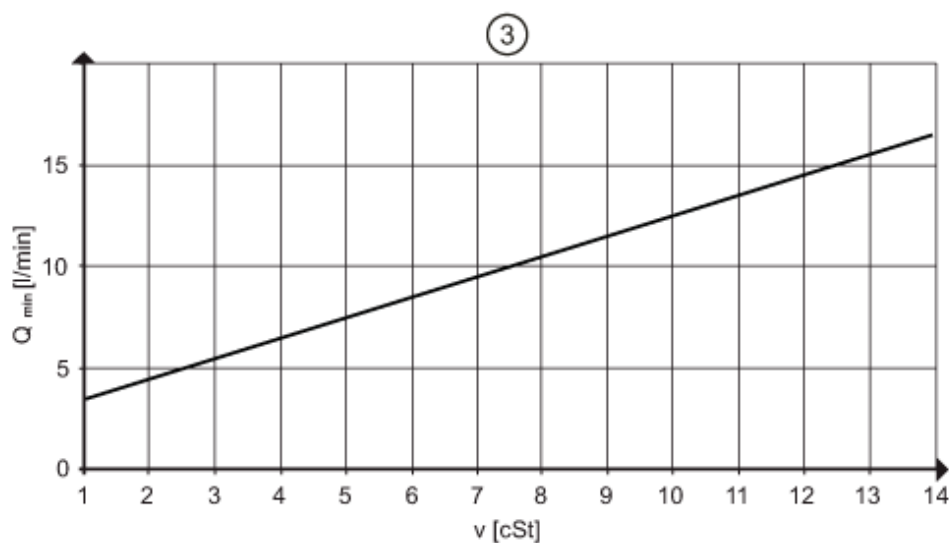
determination of the compensation value Q_0 for glycol-water mixtures



$\nu < 4$ cSt measuring accuracy 3% MEW

$4 < \nu < 14$ cSt measuring accuracy 4% MEW

response threshold Q_{min} depending on the kinematic viscosity



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Vortex flow meter

SVM34XXD0KG/US-100



pressure rating (bar)

