

SV3050



Vortex flow meter

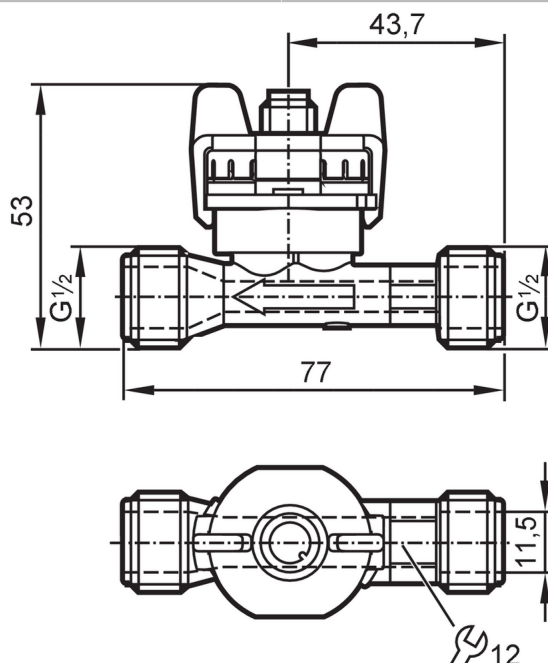
SVM12XXD0KG/US-100

phase-out article

Discontinuation date: 12/31/2025

Alternative articles: SV3051

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	0.5...10 l/min	0.074...1.474 m/s
Process connection	threaded connection G 1/2 external thread DN6	

Application

Special feature	Gold-plated contacts	
Application	for industrial applications	
Installation	connection to pipe by means of an adapter	
Media	water; glycol solutions; coolants	
Medium temperature [°C]	-40...100	
Min. burst pressure	25 bar	2.5 MPa
Pressure rating	12 bar	1.2 MPa
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	
Measuring principle	Vortex	



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Inputs / outputs		
Number of inputs and outputs		Number of analogue outputs: 1
Outputs		
Total number of outputs		1
Output signal		analogue signal
Number of analogue outputs		1
Analogue current output [mA]		4...20; (Q [l/min] = 0,625 x (I - 4 mA))
Max. load [Ω]		< (Ub - 8 V) / 20 mA; Ub = 24 V: 800
Measuring/setting range		
Measuring range		0.5...10 l/min0.074...1.474 m/s
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)
Response times		
Flow monitoring		
Response time [s]		0.5
Operating conditions		
Ambient temperature [°C]		-15...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 60068-2-2730 g (11 ms)
Vibration resistance		DIN EN 60068-2-6with water / 10...61 Hz 1 mmwith 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]		67
Housing		rectangular
Dimensions [mm]		77 x 30.22 x 53
Materials		PA 6T
Materials (wetted parts)		ETFE; PA 6T; FKM
Tightening torque [Nm]		12
Process connection		threaded connection G 1/2 external thread DN6
Remarks		
Remarks		MW = measured valueMEW = Final value of the measuring range
Pack quantity		1 pcs.

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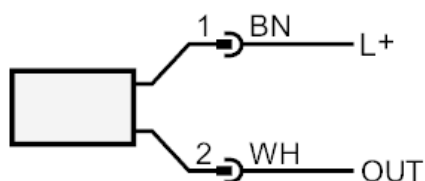
SVM12XXD0KG/US-100

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



Connection



OUT: analogue output
colours to DIN EN 60947-5-2

Core colours :

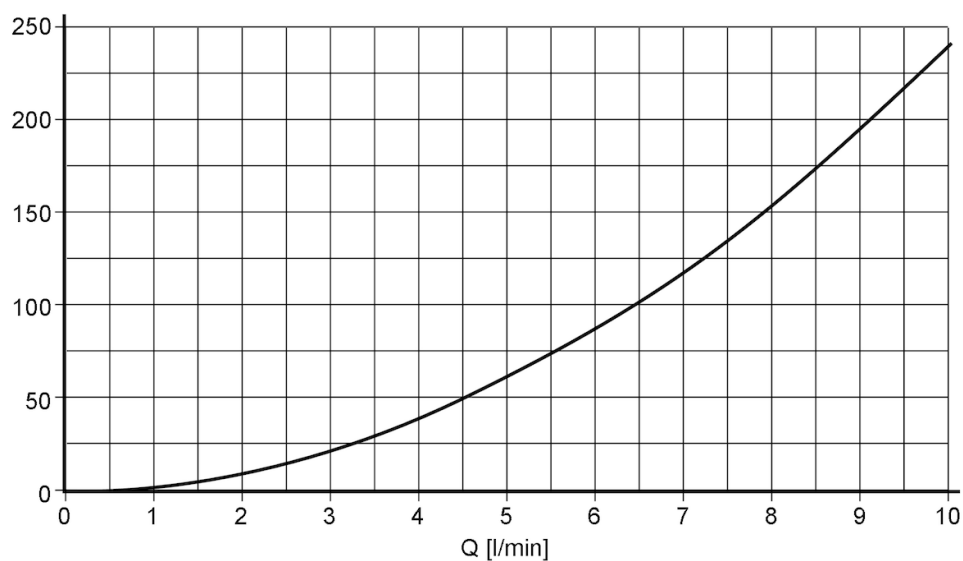
BN = brown

WH = white

Diagrams and graphs

Pressure loss

dP [mbar] DN6



dP Pressure loss

Q volumetric flow quantity

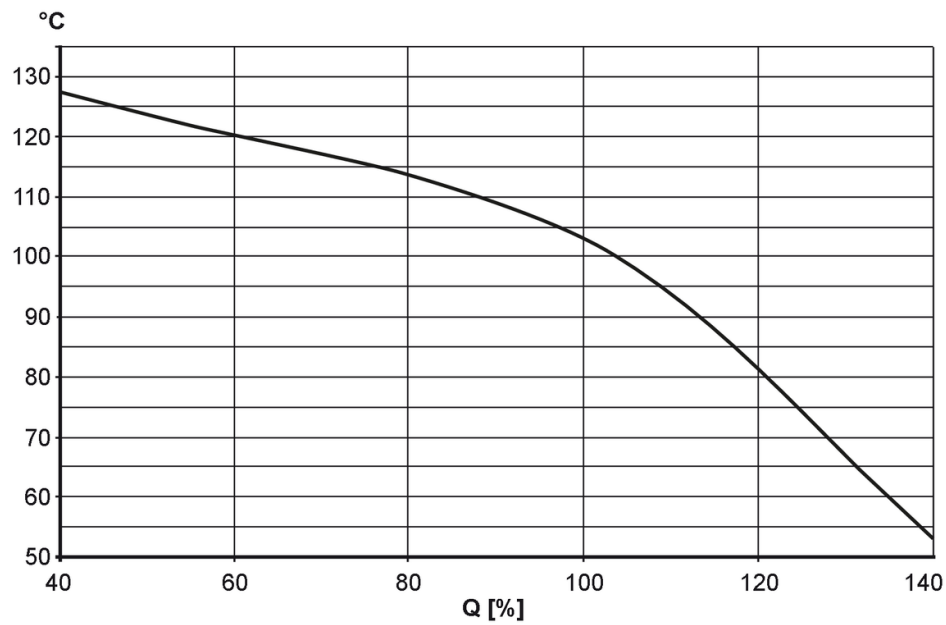
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min. life 10 years referred to flow
and high medium temperatures



pressure rating (bar)

