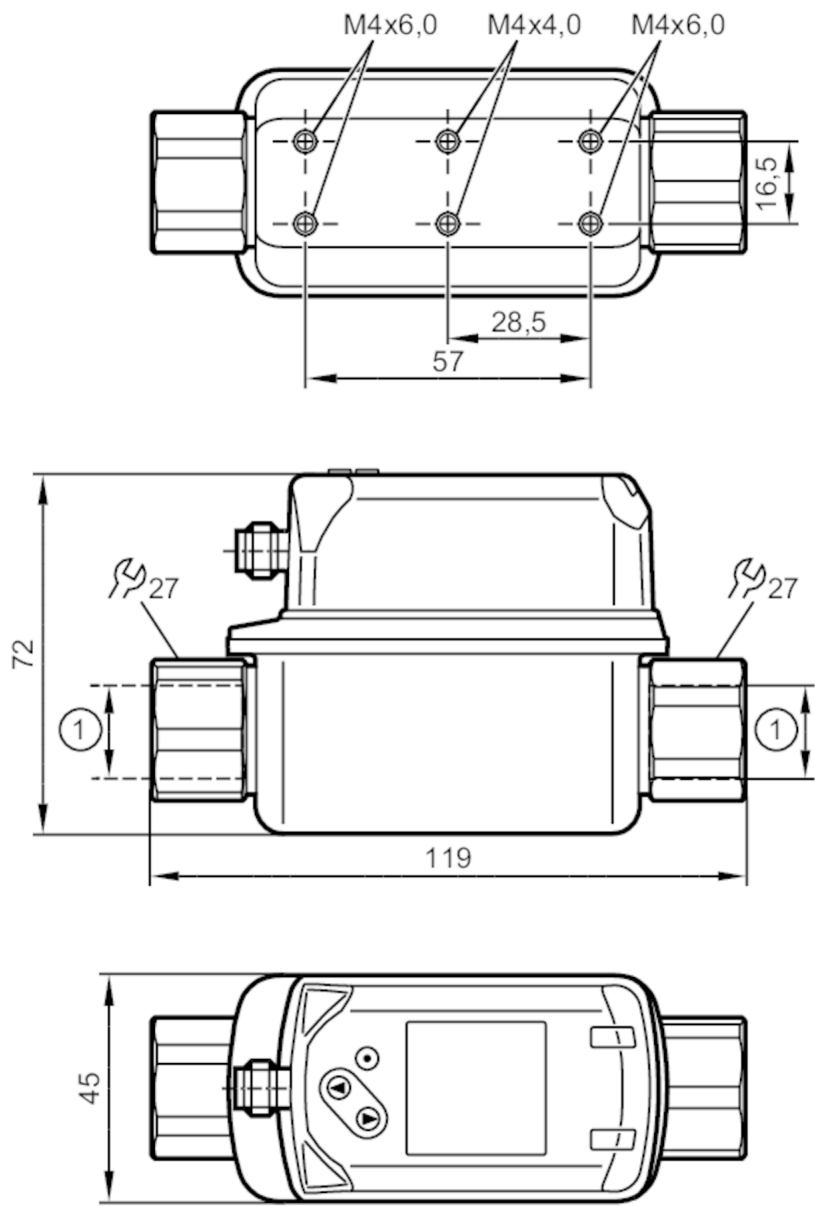


SV5614



Vortex flow meter with display

SVN12XXX50KG/US-100



1 1/2" NPT
DN 10



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 2	
Measuring range	32...634 gph	0.55...10.55 gpm
Process connection	threaded connection 1/2" NPT internal thread DN10	

Application

Special feature	Gold-plated contacts
Application	for industrial applications
Media	water; glycol solutions; coolants
Medium temperature [°F]	14...194



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Pressure rating	[bar]	12
Pressure rating	[MPa]	1.2
Pressure rating	[psi]	174
Note on pressure rating		up to 40 °C
MAWP (for applications according to CRN)	[bar]	4.8

Electrical data

Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 30
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 3
Measuring principle		Vortex

Inputs / outputs

Number of inputs and outputs	Number of analogue outputs: 2
------------------------------	-------------------------------

Outputs

Total number of outputs	2
Output signal	analogue signal
Number of analogue outputs	2
Analogue current output [mA]	4...20
Max. load [Ω]	500
Short-circuit protection	yes
Overload protection	yes

Measuring/setting range

Measuring range	32...634 gph	0.55...10.55 gpm
Display range	0...760 gph	0...12.7 gpm
Resolution	2 gph	0.05 gpm
Analogue start point ASP	0...508 gph	0...8.45 gpm
Analogue end point AEP	126...634 gph	2.1...10.55 gpm
In steps of	2 gph	0.05 gpm
Measuring dynamics		1:20

Temperature monitoring

Measuring range	[°F]	14...194
Display range	[°F]	-22...230
Resolution	[°F]	1
Analogue start point	[°F]	14...158
Analogue end point	[°F]	50...194
In steps of	[°F]	1

Accuracy / deviations

Flow monitoring		
Accuracy (in the measuring range)		± 2 % MEW; (water)
Repeatability		± 0,5 % MEW

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Temperature monitoring		
Accuracy	[K]	± 1
Response times		
Flow monitoring		
Response time	[s]	1; (dAP = 0)
Damping process value dAP	[s]	0...5
Temperature monitoring		
Dynamic response T05 / T09	[s]	T09 = 6
Software / programming		
Parameter setting options	Damping for the analogue output dAA; Display unit	
Operating conditions		
Ambient temperature	[°F]	32...140
Note on ambient temperature	medium temperature < 176 °F medium temperature < 194 °F: 32...122 °F	
Storage temperature	[°F]	-4...176
Protection	IP 65; IP 67	
Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	5 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	with water / 10...50 Hz 1 mm
		with water / 50...2000 Hz 2 g
MTTF	[years]	342
UL approval	UL Approval no.	I002
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data		
Weight	[g]	466
Housing	rectangular	
Dimensions	[mm]	119 x 45 x 72
Materials	stainless steel (316L/1.4404); PC; PBT+PC-GF30; PPS; TPE-U	
Materials (wetted parts)	stainless steel (316L/1.4404); ETFE; PA 6T; PPS; FKM	
Tightening torque	[Nm]	30
Process connection	threaded connection 1/2" NPT internal thread DN10	
Displays / operating elements		
Display		colour display 1,44", 128 x 128 pixels
		2 x LED, yellow
Remarks		
Remarks	MW = measured value MEW = Final value of the measuring range	
Pack quantity	1 pcs.	

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Vortex flow meter with display

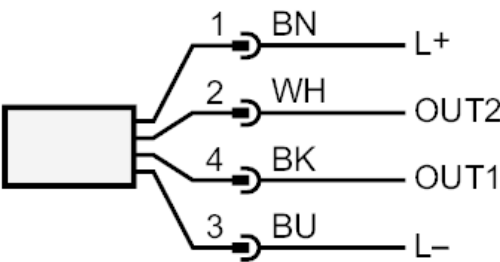
SVN12XXX50KG/US-100

Electrical connection

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



Connection



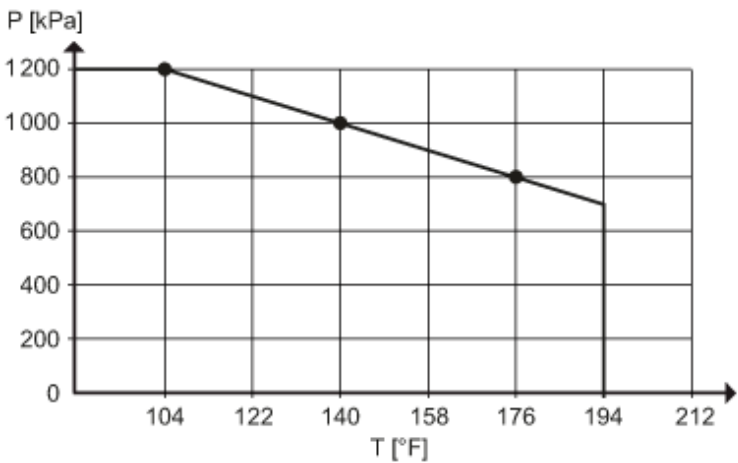
OUT1: analogue output Temperature monitoring
OUT2: analogue output volumetric flow quantity monitoring
colours to DIN EN 60947-5-2

Core colours :

BK = black
BN = brown
BU = blue
WH = white

Diagrams and graphs

pressure rating (bar)



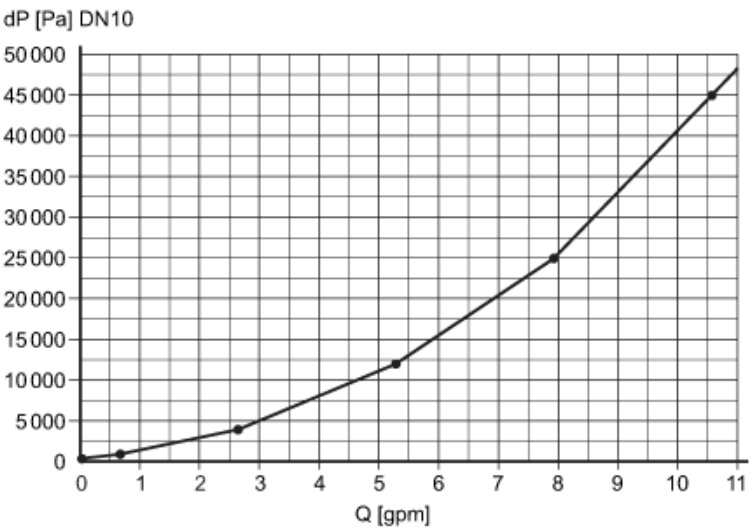
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Pressure loss



dP Pressure loss
Q volumetric flow quantity