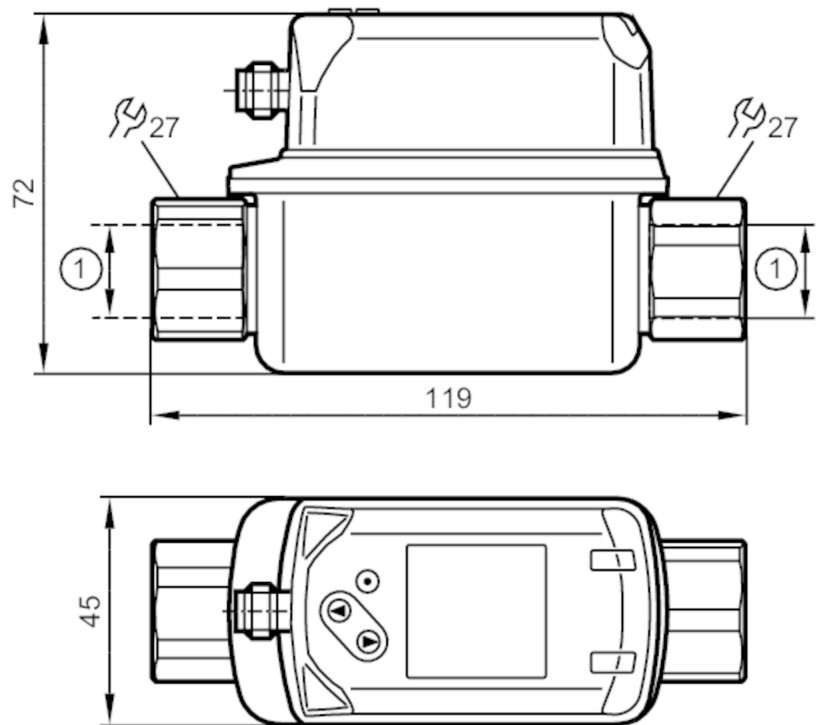


SV4614



Vortex flow meter with display

SVN12XXX50KG/US-100



1 1/2" NPT
DN 8



Application	
Application	for industrial applications
Media	water
Medium temperature [°F]	14...194
Pressure rating [bar]	12
Pressure rating [psi]	174
Note on pressure rating	up to 40 °C
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
Inputs / outputs	
Number of inputs and outputs	Number of analogue outputs: 2



Vortex flow meter with display

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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	0.26...5.28 gpm	16...317 gph
Display range	0...6.34 gpm	0...380 gph
Resolution	0.02 gpm	1 gph
Analogue start point ASP	0...4.22 gpm	0...254 gph
Analogue end point AEP	1.06...5.28 gpm	63...317 gph
Measuring dynamics	1:20	
In steps of	0.02 gpm	1 gph
Temperature monitoring		
Measuring range [°F]	14...194	
Display range [°F]	-22...230	
Resolution [°F]	1	
Set point SP [°F]	16...194	
Reset point rP [°F]	14...192	
In steps of [°F]	1	
Frequency start point, FSP [°F]	14...158	
Frequency end point, FEP [°F]	50...194	
Accuracy / deviations		
Flow monitoring		
Accuracy (in the measuring range)	± 2 % MEW	
Repeatability	± 0,5 % MEW	
Temperature monitoring		
Accuracy [K]	± 1	
Response times		
Flow monitoring		
Response time [s]	1; (dAP = 0)	
Damping for the switching output 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	

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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]	476
Materials	stainless steel (1.4404 / 316L); PC; PBT+PC-GF30; PPS; TPE-U	
Materials (wetted parts)	stainless steel (1.4404 / 316L); ETFE; PA 6T; PPS; FKM	
Tightening torque	[Nm]	30
Process connection	threaded connection 1/2 NPT DN8	
Remarks		
Remarks	MW = measured value	
	MEW = Final value of the measuring range	
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12; Contacts: gold-plated		

SV4614

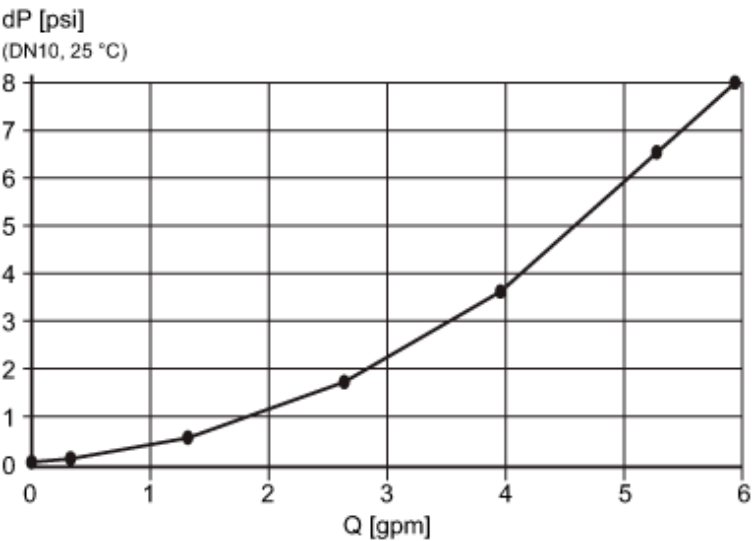


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Diagrams and graphs

Pressure loss



dP Pressure loss
Q volumetric flow quantity

pressure rating (bar)

