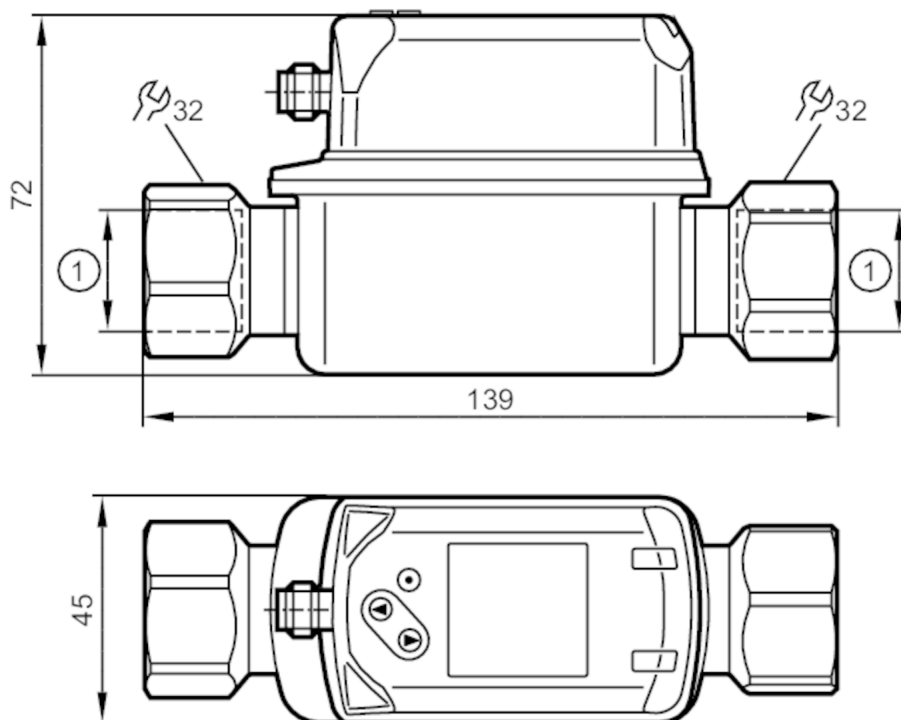


SV7614



Vortex flow meter with display

SVN34XXX50KG/US-100



1 3/4" NPT
DN 20



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
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Vortex flow meter with display

SVN34XXX50KG/US-100

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	1.3...26.4 gpm	80...1585 gph
Display range	0...31.7 gpm	0...1900 gph
Resolution	0.1 gpm	5 gph
Analogue start point ASP	0...21.1 gpm	0...1270 gph
Analogue end point AEP	5.3...26.4 gpm	315...1585 gph
Measuring dynamics	1:20	
In steps of	0.1 gpm	5 gph
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	
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]	515.2
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 3/4 NPT DN20

Remarks

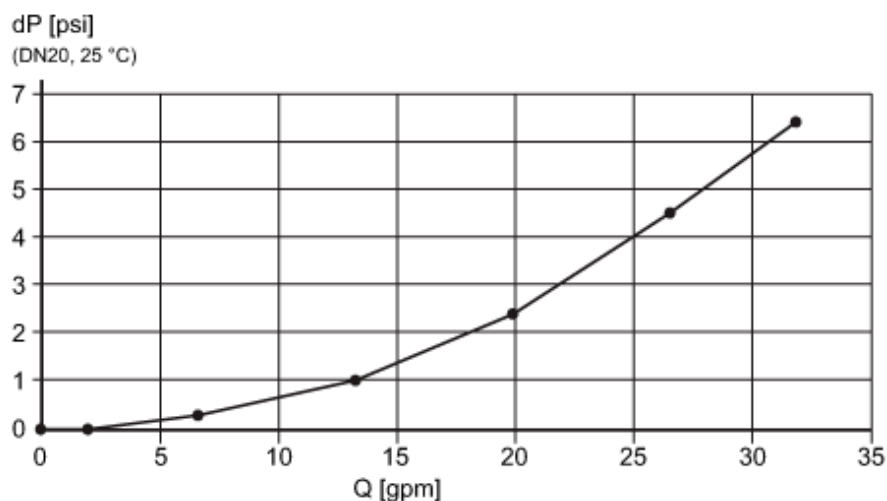
Remarks		MW = measured value MEW = Final value of the measuring range
Pack quantity		1 pcs.

Electrical connection

Connector: 1 x M12; Contacts: gold-plated

Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity

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pressure rating (bar)

