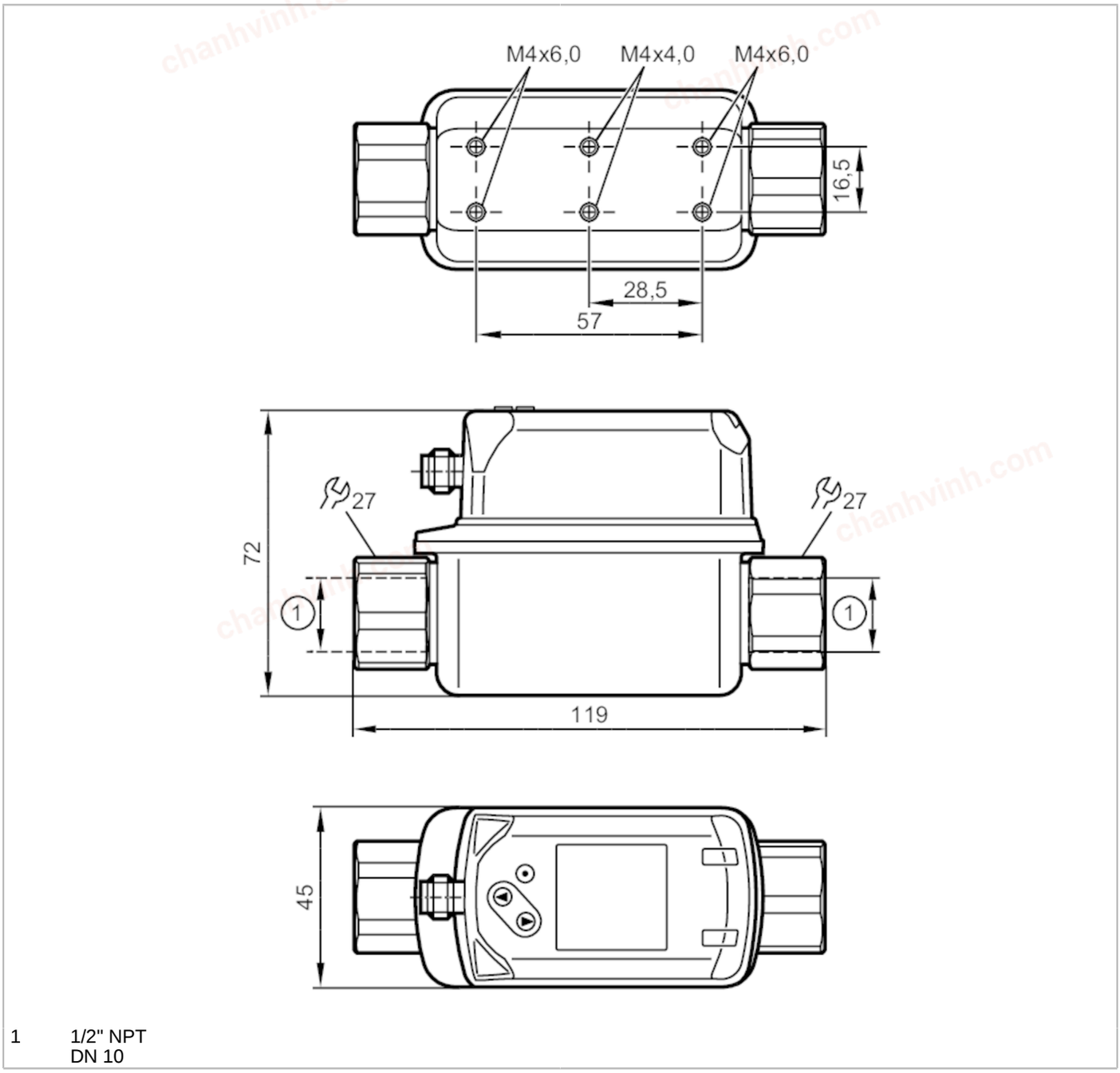
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SV5614

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	12 bar	174 psi	1.2 MPa
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		
Temperature monitoring			
Accuracy [K]	± 1		

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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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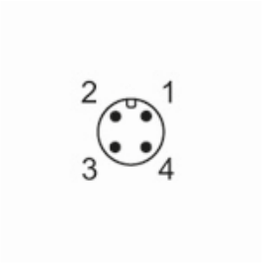
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Vortex flow meter with display

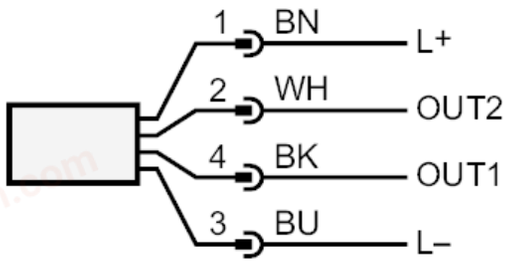
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Electrical connection

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



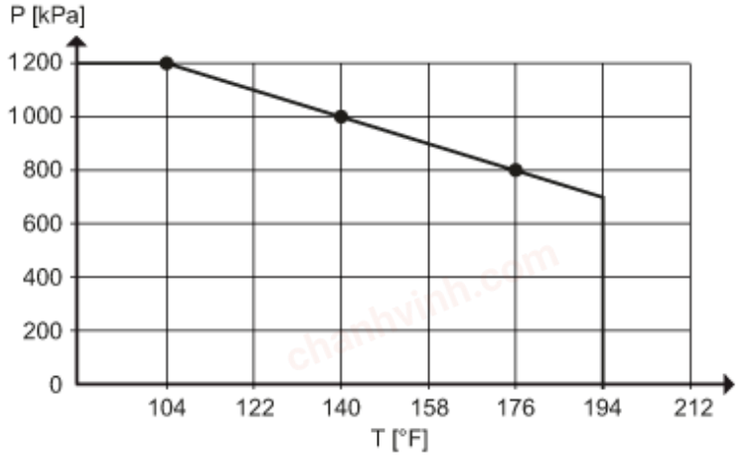
Connection



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)



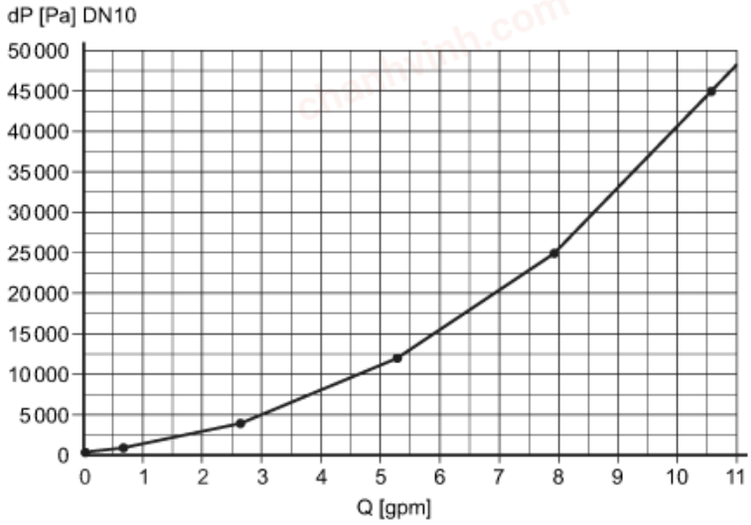
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Pressure loss



dP Pressure loss

Q volumetric flow quantity