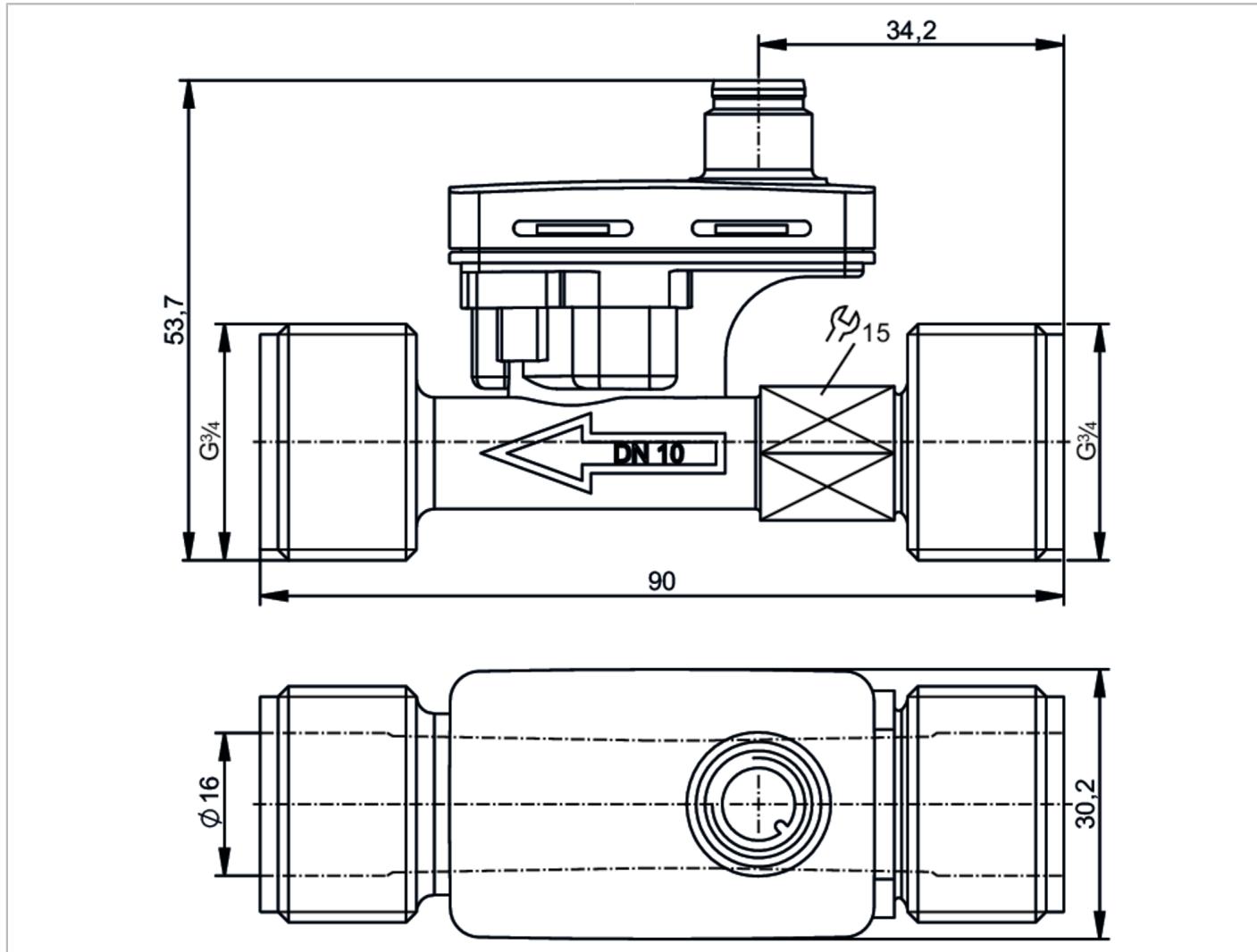


Vortex flow meter

SVR34XGXD0KG/US



CE

Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	1.8...32 l/min	0.265...4.716 m/s
Process connection	threaded connection G 3/4 DN10	
Application		
Special feature	Gold-plated contacts	
Measuring element	1 x Pt 1000; (to DIN EN 60751, class B)	
Application	for industrial applications	
Installation	connection to pipe by means of an adapter	
Media	ultra-pure water; water	
Medium temperature [°C]	0...125	
Min. bursting pressure	15 bar	1.5 MPa
Note on min. burst pressure	125 °C	
Pressure rating	16 bar	1.6 MPa
Note on pressure rating	≤ 90 °C	

SV5151



Vortex flow meter

SVR34XGXD0KG/US

Electrical data		
Operating voltage	[V]	8...33 DC
Current consumption	[mA]	< 5
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Power-on delay time	[s]	< 2
Measuring principle		Vortex
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; ($Q [l/min] = 2,0 \times (I - 4 \text{ mA})$)
Max. load	[Ω]	$< (U_b - 8 \text{ V}) / 20 \text{ mA}; U_b = 24 \text{ V}: 800$
Measuring/setting range		
Measuring range		1.8...32 l/min 0.265...4.716 m/s
Temperature monitoring		
Internal heating temperature probe		1 K/mW
Measuring range	[°C]	0...125
Accuracy / deviations		
Flow monitoring		
Accuracy (in the measuring range)		$Q < 50 \% \text{ MEW}: < 1 \% \text{ MEW} / Q > 50 \% \text{ MEW}: < 2 \% \text{ MW}$; (water)
Repeatability		0,2; (% of the final value)
Temperature monitoring		
Accuracy	[K]	$\pm 0,3 \pm 0,005 \times T$
Response times		
Flow monitoring		
Response time	[s]	0.34; (T09)
Temperature monitoring		
Dynamic response T05 / T09	[s]	< 10 / < 30
Operating conditions		
Ambient temperature	[°C]	-15...85
Note on ambient temperature		Medium temperature > 0 °C: -40...85
Storage temperature	[°C]	-40...85
Protection		IP 65
Cavitation		P(absolute) discharge / P(difference) > 5.5 to avoid cavitation
Tests / approvals		
EMC		EN IEC 61326-1:2021
Shock resistance		30 g (11 ms)

SV5151



Vortex flow meter

SVR34XGXD0KG/US

Vibration resistance	DIN EN 60068-2-6	with water / 10...61 Hz 1 mm with water / 61...2000 Hz 2 g
MTTF [years]		395.9
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data

Weight [g]	96.3
Materials	Housing: PPS 40% glass fibre; electronics: PC 10% glass fibre
Materials (wetted parts)	sensor: PPSU; Pipe section: PPS 40% glass fibre; Sealing: EPDM
Tightening torque [Nm]	12
Process connection	threaded connection G 3/4 DN10

Remarks

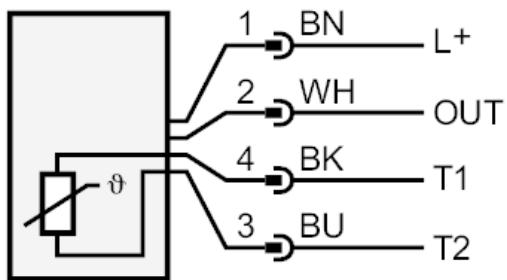
Remarks	MW = measured value
	MEW = Final value of the measuring range
Pack quantity	1 pcs.

Electrical connection - plug

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



Connection



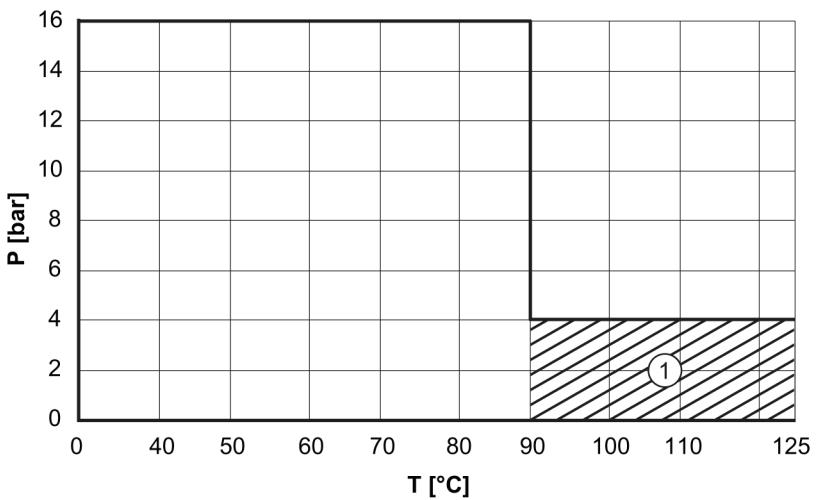
OUT:	analogue output
T1 / T2:	Pt1000 colours to DIN EN 60947-5-2 Core colours :
BK =	black
BN =	brown
BU =	blue
WH =	white

Vortex flow meter

SVR34XGXD0KG/US

Diagrams and graphs

pressure rating curve

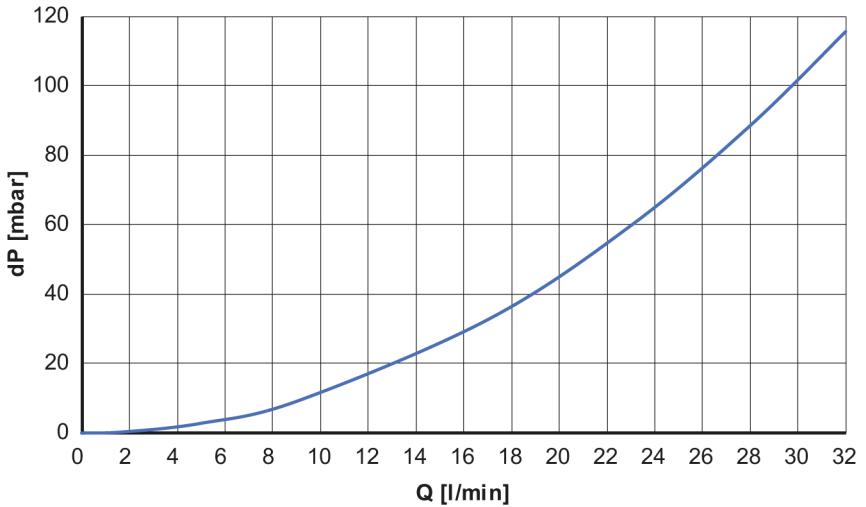


P [bar] = pressure

T [°C] = temperature

1 = permanent

Pressure loss



dP [mbar] = Pressure loss

Q [l/min] = volumetric flow quantity