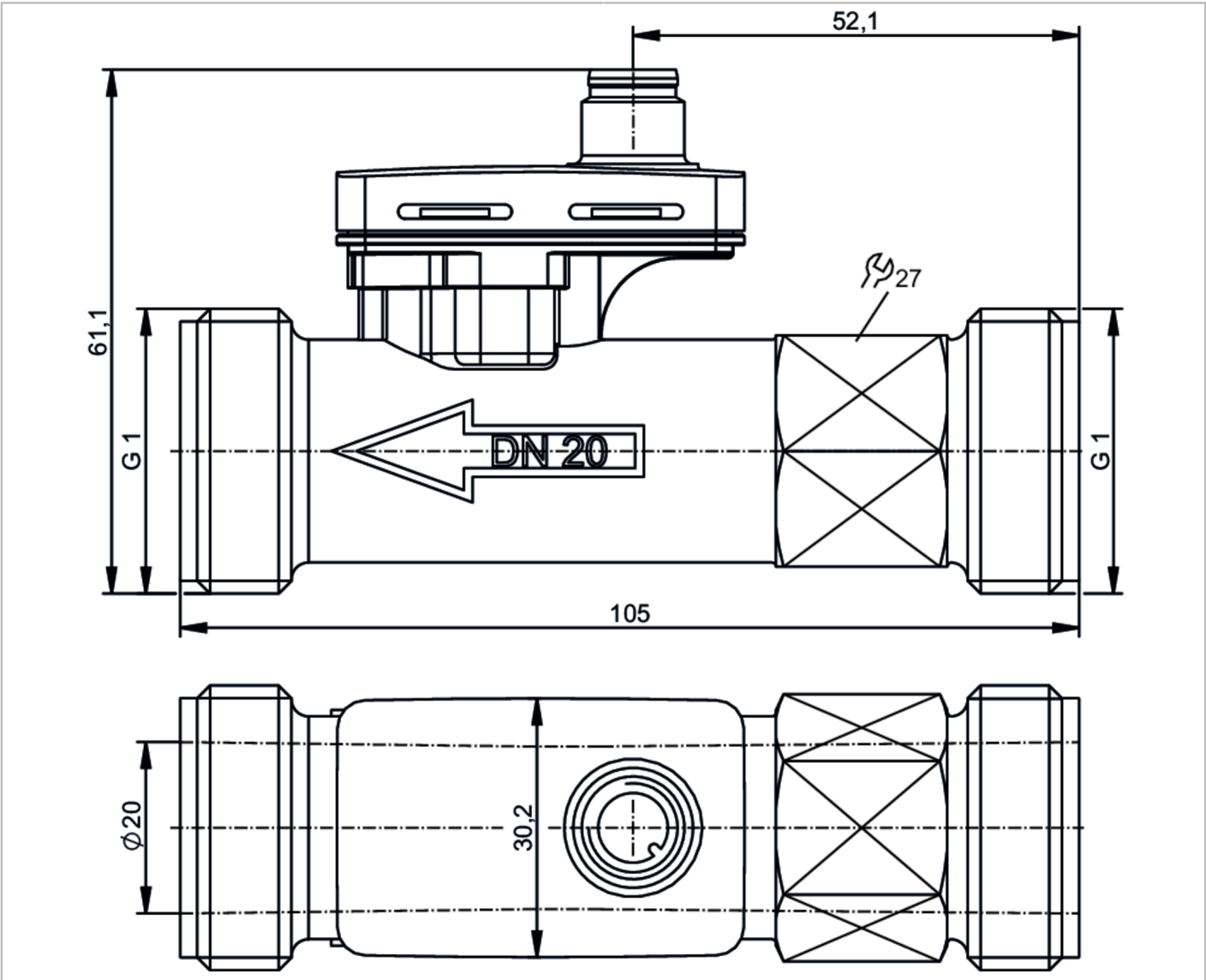


SV7051



Vortex flow meter

SVR11XGXD0KG/US



Product characteristics		
Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	5...85 l/min	0.265...4.509 m/s
Process connection	threaded connection G 1 DN20	
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	10 bar	1 MPa
Note on min. burst pressure	125 °C	
Pressure rating	16 bar	1.6 MPa



Vortex flow meter

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Note on pressure rating	≤ 90 °C	
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] = 5,313 x (I - 4 mA))
Max. load	[Ω]	< (Ub - 8 V) / 20 mA; Ub = 24 V: 800
Measuring/setting range		
Measuring range	5...85 l/min	0.265...4.509 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 % MEW: < 1 % MEW / Q > 50 % MEW: < 2 % MW; (water)	
Repeatability	0,2; (% of the final value)	
Temperature monitoring		
Accuracy	[K]	± 0,3 ± 0,005 x T
Response times		
Flow monitoring		
Response time	[s]	0.37; (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	DIN EN 60068-2-27	30 g (11 ms)

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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]	114.9	
Materials	Housing: PPS 40% glass fibre; electronics: PC 10% glass fibre	
Materials (wetted parts)	sensor: PPSU; Pipe section: PPS 40% glass fibre; Sealing: FKM	
Tightening torque [Nm]	12	
Process connection	threaded connection G 1 DN20	

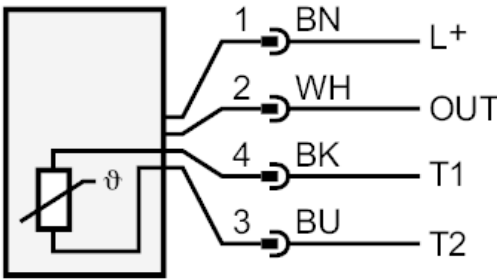
Remarks		
Remarks	MW = measured value	
	MEW = Final value of the measuring range	
Pack quantity	1 pcs.	

Electrical connection

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

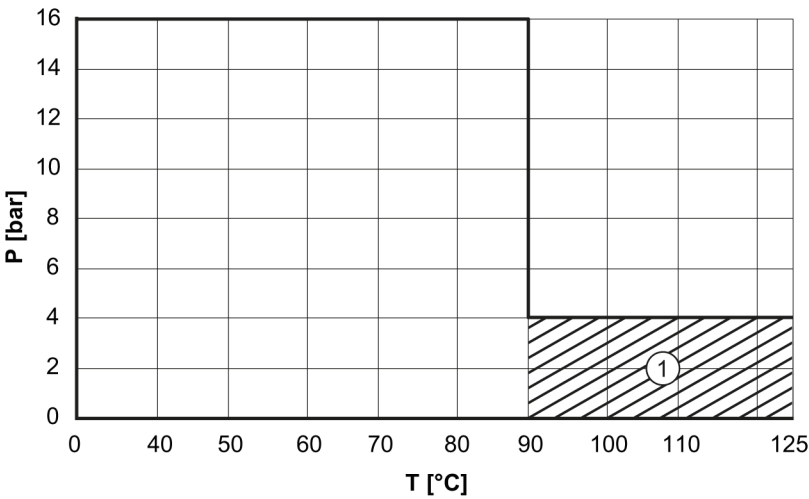


Vortex flow meter

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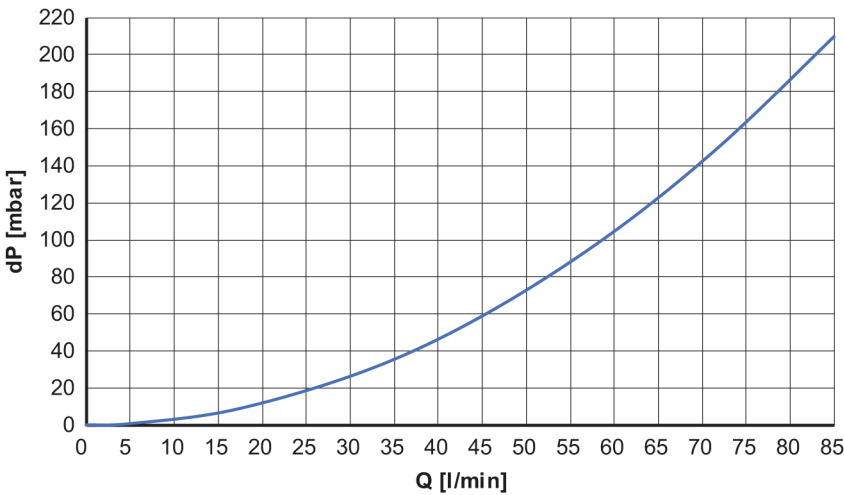
Diagrams and graphs

pressure rating curve



P [bar] = pressure
T [°C] = temperature
1 = permanent

Pressure loss



dP [mbar] = Pressure loss
Q [l/min] = volumetric flow quantity