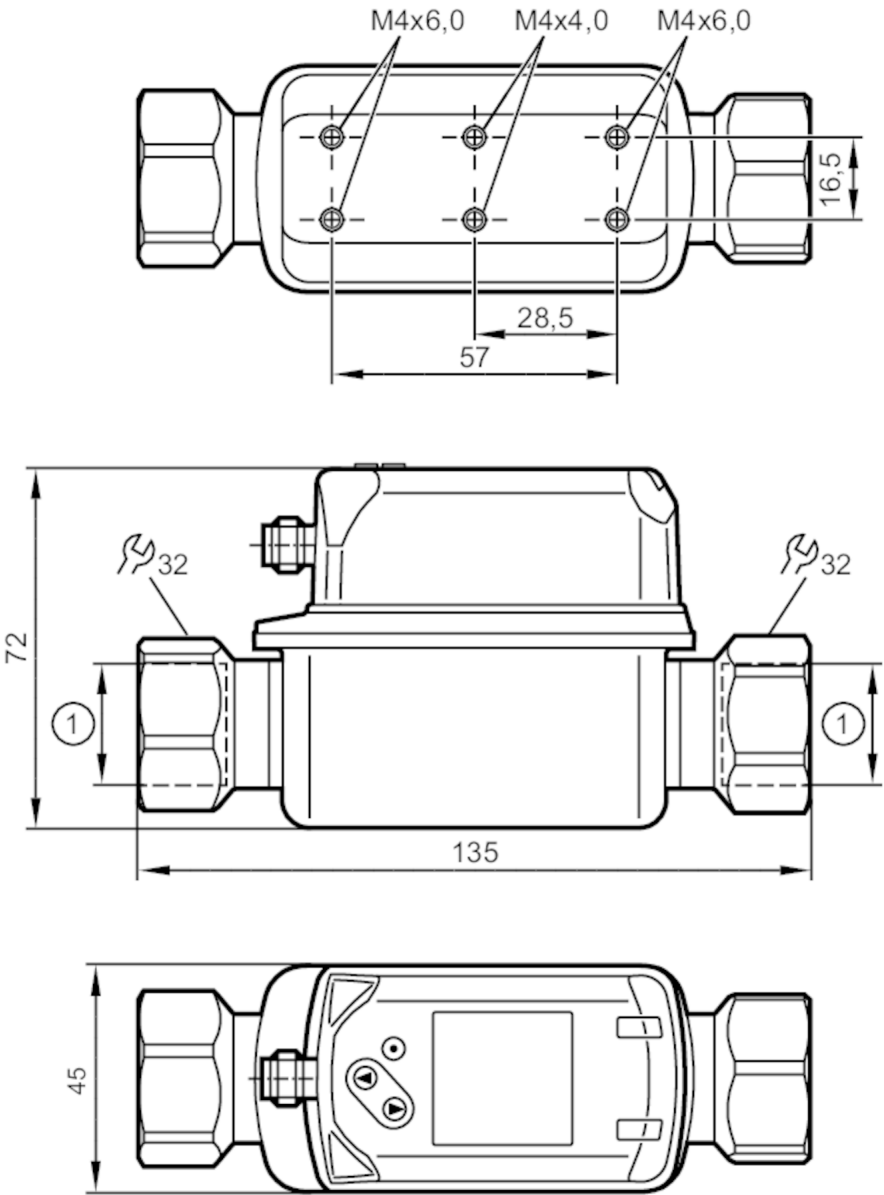


SV7204



Vortex flowmeters with display, Type SV

SVR34XXX50KG/US-100



1 G 3/4
DN 20



Product characteristics		
Number of inputs and outputs	Number of analog outputs: 2	
Measuring range	5...100 l/min	0.3...6 m³/h
Process connection	threaded connection G 3/4 DN20	



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Application		
System	gold-plated contacts	
Application	for industrial applications	
Media	water	
Medium temperature	[°C]	-10...90
Pressure rating	[bar]	12
Pressure rating	[Mpa]	1.2
Note on pressure rating	up to 40 °C	
MAWP (for applications according to CRN)	[bar]	4.3
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 analog outputs: 2	
Outputs		
Total number of outputs	2	
Output signal	analog signal	
Number of analog outputs	2	
Analog current output	[mA]	4...20
Max. load	[Ω]	500
Short-circuit protection	yes	
Overload protection	yes	
Measuring/setting range		
Measuring range	5...100 l/min	0.3...6 m³/h
Display range	0...120 l/min	0...7.2 m³/h
Resolution	0.5 l/min	0.02 m³/h
Analog start point ASP	0...80 l/min	0...4.8 m³/h
Analog end point AEP	20...100 l/min	1.2...6 m³/h
In steps of	0.5 l/min	0.02 m³/h
Measuring dynamics	1:20	
Temperature monitoring		
Measuring range	[°C]	-10...90
Display range	[°C]	-30...110
Resolution	[°C]	0.5
Analog start point	[°C]	-10...70
Analog end point	[°C]	10...90
In steps of	[°C]	0.5



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Accuracy / deviations		
Flow monitoring		
Accuracy (in the measuring range)		$\pm 2\%$ MEW
Repeatability		$\pm 0,5\%$ MEW
Temperature monitoring		
Accuracy	[K]	± 1
Reaction 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 analog output dAA; Display unit
Operating conditions		
Ambient temperature	[°C]	0...60
Note on ambient temperature		medium temperature < 80 °C
		medium temperature < 90 °C: 0...50 °C
Storage temperature	[°C]	-20...80
Protection		IP 65; IP 67
Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
CPA approval	model number	001VO
	accuracy class	-
	maximum allowable error	$\pm 2\%$ FS
	Q (min)	0,36 m³/h
	Q (t)	1,2 m³/h
Shock resistance	Q (max)	6 m³/h
	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 number	I002
Pressure equipment directive		sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight	[g]	483.5
Material		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 G 3/4 DN20

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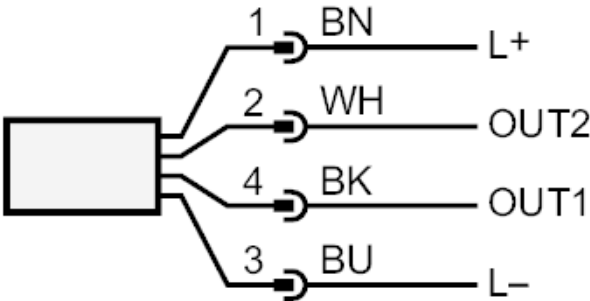
Remarks	
Remarks	MW = Measured value
	MEW = Final value of the measuring range
Pack quantity	1 pcs.

Electrical connection

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



Connection



- OUT1: analog output Temperature monitoring
- OUT2: analog output Volumetric flow quantity monitoring
- Colors to DIN EN 60947-5-2
- Core colors :
- BK = black
- BN = brown
- BU = blue
- WH = white

SV7204

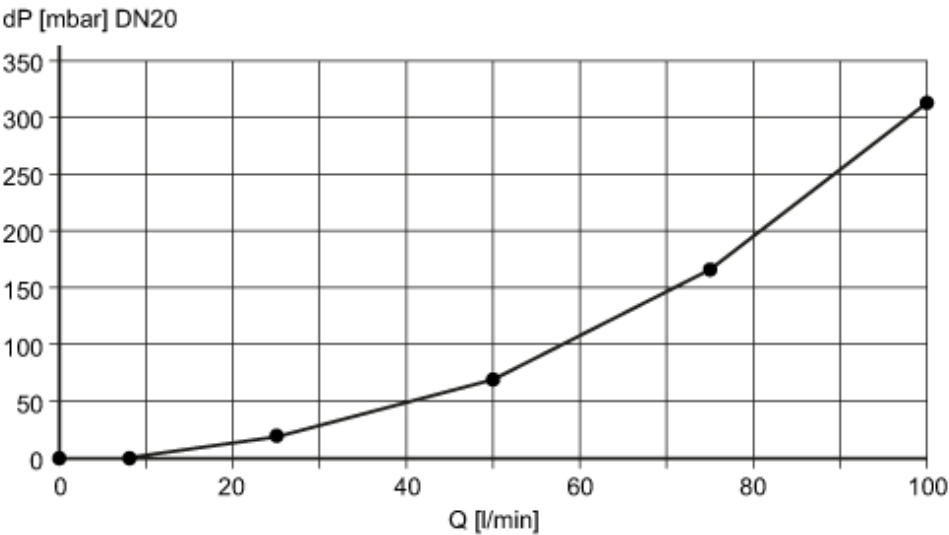


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Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity

pressure rating (bar)

