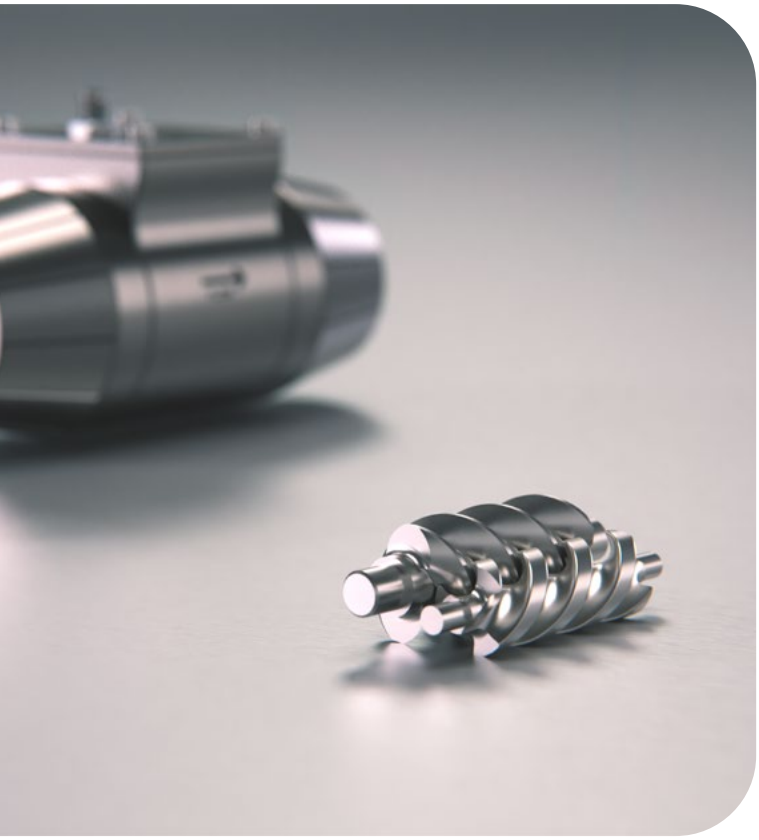
fluid
technology
solutions

VSE flow®

Helical screw flow meter RS5

RS5 – innovative flow meter for microdosing



With the new RS5, measurement ranges from 0.25 ml/min to 1 l/min are possible. Like the larger models in the RS series, the RS5 impresses with its low-resistance, high-precision, pulsation-free and gentle measurement of liquids with minimal pressure losses. With a measuring range reduced by a factor of 100*, the RS5 sets new standards in precision measurement.

The newly developed sensor technology transforms even the smallest drop into high-resolution signals. The compact dimensions and low weight open up many new possible applications.

* compared to the previous smallest flow rate 40 ml/min of the VSE RS40

Applications

The RS5 is ideal for applications with limited installation space or specific weight requirements, such as plotter-like dispensing and handling equipment. It is perfectly suited for bonding and potting electronic components. The RS5 can be used as an additional component for dispensing pumps, including progressive cavity pumps, for actual value monitoring. Thanks to its rotor principle, the RS5 can also precisely measure filled and critical media.

Advantages

- First helical screw flow meter for microdosing on the market
- Dosing from 0.25 ml/min to 1 l/min
- Compact dimensions: 86 x 38 x 51 mm
- Lightweight: only 700 g
- Suitable for liquids with medium to high viscosity, including 1C adhesives
- Low-resistance, highly precise, pulsation-free, and gentle measurement with minimal pressure curves

Technical specifications

Material	1.4305 (housing)/1.2379 (rotors)
Dimensions (L x W x H)	86 x 38 x 51 mm
Weight	0.715 kg
Bearings	Ceramic plain bearings
Connection	G ¼
Seal material	Viton or PTFE
Flow rate	0.25 ml/min to 1,000 ml/min
Max. operating pressure	80 bar
Frequency	up to 120 kHz
Viscosity	≥ 800 mPas
Medium temperature	-30°C up to +80°C
Installation position	Any
Interpolation factor IPF	256, 512 (standard), 1,024
K-Factor	~762.000 1/l (at IPF 512)
Measurement accuracy	± 2% ≥ 800 mPas
Repeatability	± 0.5% (under the same working conditions)

Electrotechnical data

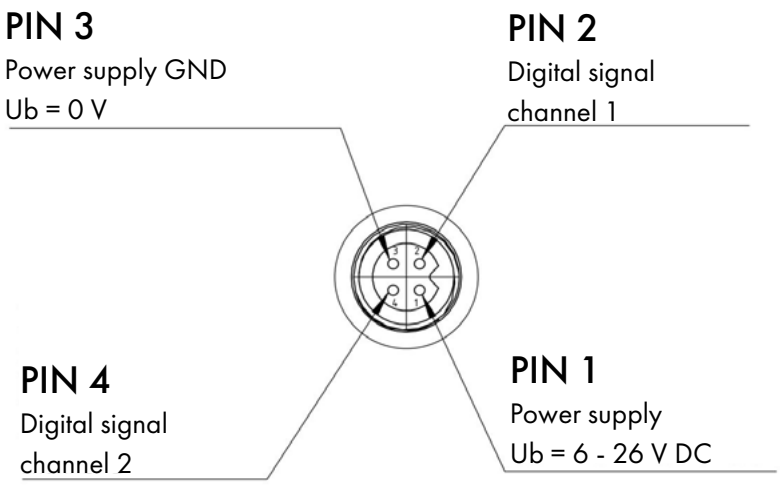
Supply voltage
6 to 26 V DC

Output signal form
2-channel HTL
quadrature signals

Signal output current
300 mA per channel

Connection type
4 pin M5x0.5 (male)

Connection diagram



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