

900 Series Flowmeter

Technical Product data sheet



900 Series Flowmeter

The 900 series flowmeter is designed to give high performance and competitive pricing with 6 flow ranges from 0.05 to 15 litres per minute. Its choice of body materials makes this the ideal choice for the metering of aggressive chemicals, including ultra-pure water. The standard inlet is 1/4" BSPF although for OEM use alternatives are available. The bearings are made of sapphire for long life and reliability, the body is either PVDF or 316 stainless steel and as standard the 'O' ring seal is Viton™.

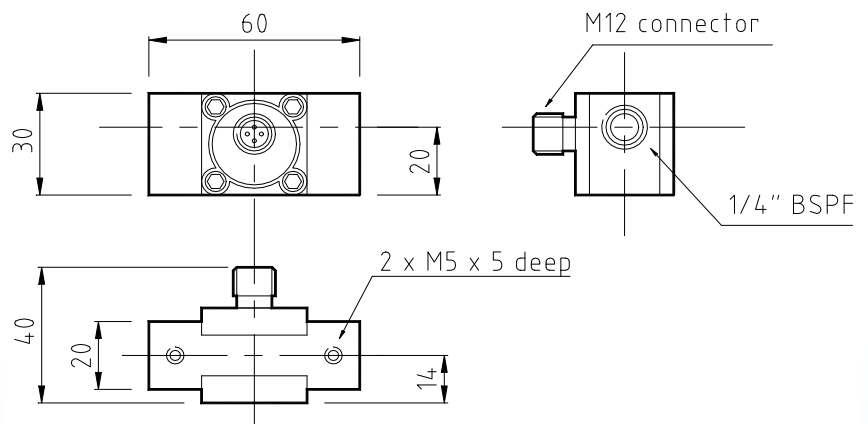
Features

- Low cost
- PVDF or St St body
- ±0.75% Reading *
- 1- 2% FSD
- Sapphire bearings
- Hall Effect sensor
- 6 Flow ranges
- Pulse output (NPN Std)
- Pulse output (PNP Option)
- 10 Bar rating
- Viton™ seal as std.
- 1/4" BSPF connections
- 0.1% Repeatability
- 4.5 to 24 V dc
- 25°C Min to 125°C Max

* When used with a metra-smart instrument

Ideal for

- Laboratory tests
- Cooling equipment
- Active flow alarms
- Semiconductor plant
- Engine test



Weights

PVDF	= 0.065kg
St St	= 0.192kg

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Order Codes

Flow range	903
L/min	915
	945
	965
	910
	924
O'ring mtl	V - Viton™ N - Nitrile E - EPDM S - Silicon
Options	Q - Standard 2 - NPN - PNP
Body material	P - PVDF S - 316 St St
Special OEM code	Q - Standard U - Uncalibrated

e.g. **965-VOP-Q** is a flow range of 0.25 to 6.5 L/Min, Viton™ seal, standard, PVDF bodied flowmeter with a 6 point traceable water calibration.

Standard Materials of Construction

- Body and cap - PVDF or 316 St St
- 'O' Ring seal - Viton™
- Magnets - Ceramic
- Bearings - Sapphire

Model	Flow range L/Min	Linearity % FSD	Typical Freq. Hz.	Approx 'K' Factor
903	0.05 - 0.5	2.0	142	17000
915	0.12 - 1.5	2.0	175	7000
945	0.20 - 4.5	1.5	260	3500
965	0.25 - 6.5	1.5	230	2100
910	0.30 - 10.0	1.0	235	1420
924	0.50 - 15.0	1.0	245	980

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At the heart of the meter is a precision turbine that rotates freely on robust sapphire bearings and contains chemically resistant ceramic magnets that are detected through the chamber wall by a Hall effect detector. The output is a NPN pulse that is readily interfaced with most electronic display or recording devices. This combination of materials and technology ensures a long life product with reliable operation throughout. There are two temperature options 125°C or 60°C. The 60°C unit is fitted with two LEDs to monitor the power and pulse

