

# Product information

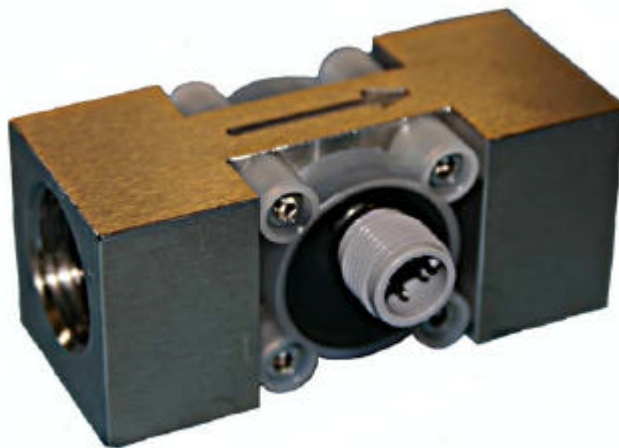
## 1000 series data sheet

- Low cost
- PVDF or St St body
- $\pm 0.75\%$  Reading \*
- 1- 2% FSD
- Sapphire bearings
- Hall effect sensor
- 7 Flow ranges
- Pulse output
- 10 Bar rating
- Viton seal as std.
- $\frac{1}{2}$ " BSP connections
- 0.1% Repeatability
- 4.5 to 24 V dc
- 125°C Max
- Flow switch option

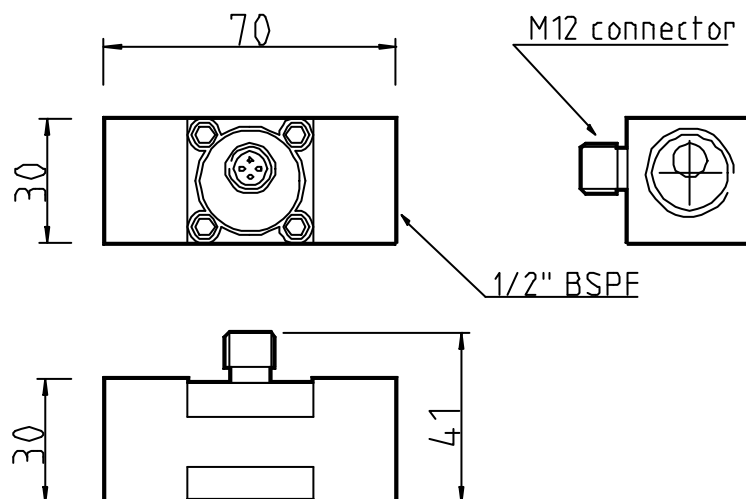
\* When used with our metra -smart instrument

### Ideal for

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



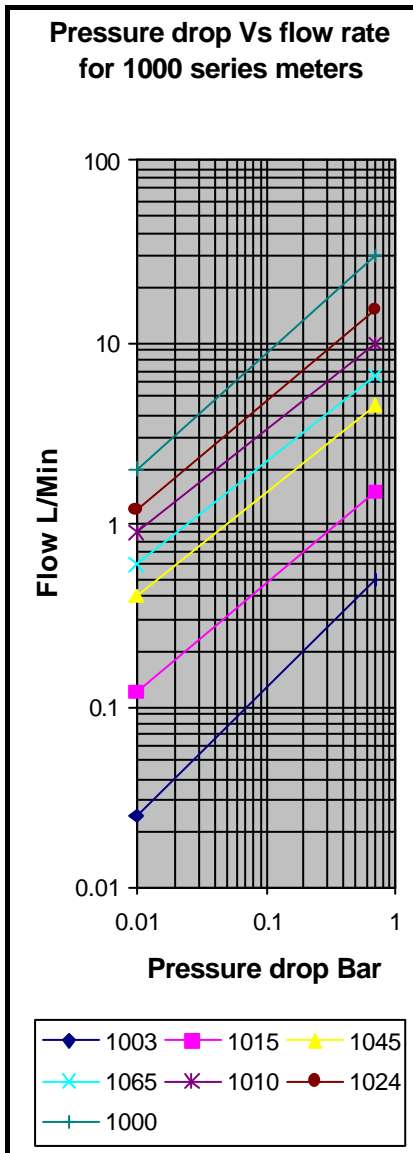
The 1000 series flowmeter is designed to give high performance and competitive pricing with 7 flow ranges from 0.05 to 30 litres per minute. Its choice of body materials makes this the ideal choice for the metering of aggressive chemicals, including ultra-pure water. The standard inlet is  $\frac{1}{2}$ " BSP F 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™.



Model	Flow range L/Min	Linearity % FSD	Typical Freq. Hz.	Approx 'K' Factor	<b>Standard Materials of construction</b>  Body and cap - PVDF or 316 stainless steel 'O' Ring seal - Viton Magnets - Ceramic Bearings - Sapphire
1003	0.05-0.5	2.0	142	17000	
1015	0.12-1.5	2.0	175	7000	
1045	0.2-4.5	1.5	260	3500	
1065	0.25-6.5	1.5	230	2100	
1010	0.3-10	1.0	235	1420	
1024	0.5-15	1.0	245	980	
1000	2.0-30	1.0	250	500	

Flow range L/Min	'O' ring mat'l	Flow switch option	Body material	Special OEM code
1003 = 0.05-0.5	<b>V</b> = Viton	<b>Q</b> = Standard	<b>P</b> = PVDF	<b>Q</b> = Standard
1015 = 0.12-1.5	<b>N</b> = Nitrile	<b>I</b> = Flow switch	<b>S</b> = 316 St St	<b>U</b> = Uncalibrated
1045 = 0.2-4.5	<b>E</b> = EPDM			
<b>1065</b> = 0.25-6.5	<b>S</b> = Silicon			
1010 = 0.3-10				
1024 = 0.5-15				
1000 = 2.0-30				

Order code example :- **1065-VOP-O** is a flow range of 0.25 to 6.5 L/Min, Viton™ seal, standard electronics, PVDF body and a standard six point calibration.



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 stream of NPN pulses that readily interfaces with most electronic display or recording devices. This combination of materials and technology ensures a long life product with reliable operation throughout.

