

1000 SERIES DATA SHEET

Low cost
PVDF or St St body
1- 2% FSD, $\pm 0.75\%$ reading*
Sapphire bearings
Hall effect sensor
7 Flow ranges
Pulse output
10 Bar rating
Viton seal as std.
1/2" BSP connections
0.1% Repeatability
4.5 to 24 V dc
125/60°C Max
Flow switch option
***Used with 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 6 flow ranges from 0.05 to 30 litres per minute. Its choice of materials makes this the ideal choice for the metering of aggressive chemicals including ultra-pure water. The standard inlets are 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 st. st. and as standard and the 'O' ring seal is typically Viton™. 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 output, both NPN and PNP transistor outputs are available on each flowmeter.



TITAN ENTERPRISES LTD.

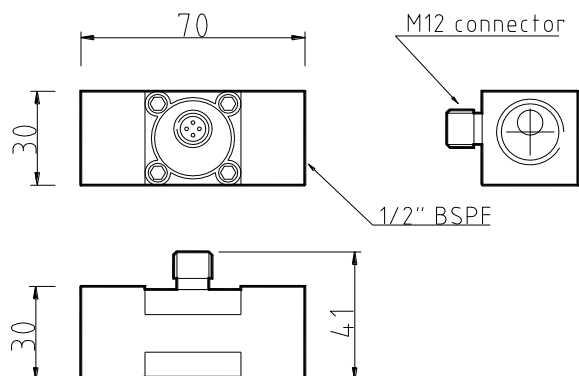
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Order Codes

Flow range 1003
1015
1045
1065
1010
1024
1000

'O' ring mt'l

V - Viton
N - Nitrile
E - EPDM
S - Silicon

Flow switch

O - Standard 125°C
1 - Flow sw
2 - 60°C NPN/PNP

Body mt'l

P - PVDF
S - 316 St St
O - Special

OEM code

O - Standard
U - Uncalibrated

e.g. **1065-V O P-O** is a flow range of 0.25 to 6.5 L/Min, viton seal, standard, 125°C, PVDF bodied flow-meter with a 6 point traceable water calibration.

Standard Materials of construction

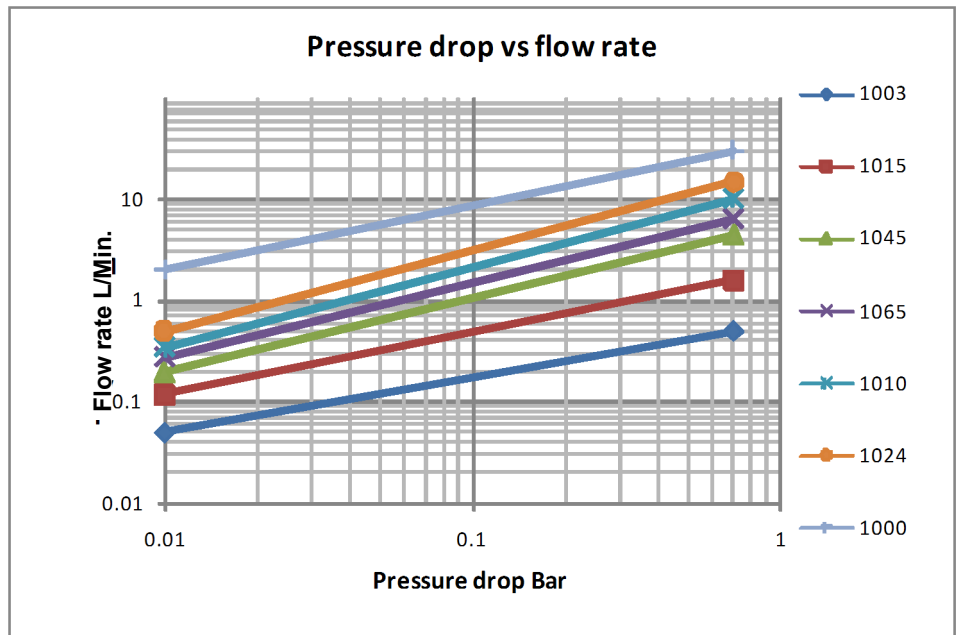
Body and cap - St St - PVDF

'O' Ring seal - Viton

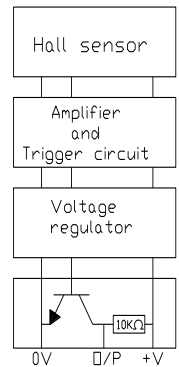
Magnets - Ceramic

Bearings - Sapphire

Model	Flow range L/Min	Linearity % FSD	Typical Freq. Hz.	Approx 'K' Factor
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



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 pulses that are readily interfaced with most electronic display or recording devices. The low temperature operation device has status lights for monitoring meter status. This combination of materials and technology ensures a long life product with reliable operation throughout.



Sensor block diagram

