

With 7 flow ranges from 0.05 to 30 L/min, the 1000 series turbine flowmeter is designed to give high performance at a competitive price. Its choice of body materials makes this an ideal meter for measuring aggressive chemicals, including ultra-pure water. The standard inlet is a 1/2" BSPF, with alternatives available for OEM applications. The bearings are made of sapphire for long life and reliability, the body is either PVDF or 316 stainless steel, and for the standard meter the 'O' ring seal is Viton™.



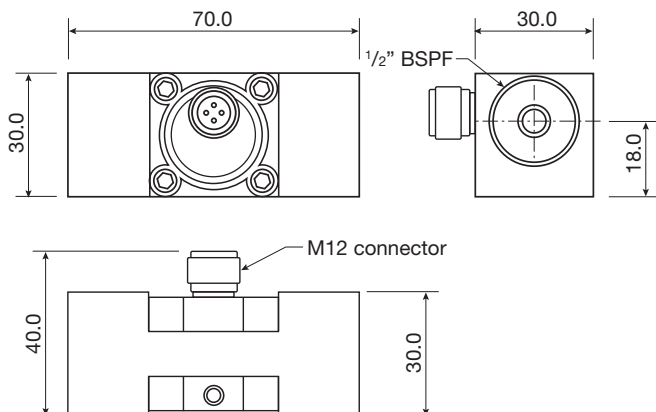
### IDEAL FOR

- Batching
- Chemical dosing
- Laboratory tests
- Cooling equipment
- Active flow alarms
- Semiconductor plant
- Engine test
- OEM applications



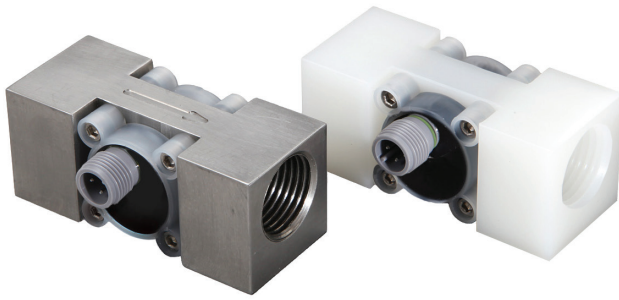
### FEATURES

- Low cost
- PVDF or St St body
- 1- 2% FSD
- Sapphire bearings
- Hall Effect sensor
- 7 flow ranges
- Pulse output (NPN standard / PNP option)
- 10 bar rating (40 bar option for StSt body)
- Viton™ seal as standard
- 1/2" BSP-F (1/2" NPT-F option)
- 0.1% Repeatability
- 4.5 to 24Vdc
- -25°C Min to 125°C Max
- IP65



### Weight (kg)

|       |       |
|-------|-------|
| St St | 0.245 |
| PVDF  | 0.085 |



At the heart of the meter is a precision turbine that rotates freely on robust sapphire bearings and contains over-moulded 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, such as Titan's Pulsite® Solo. The 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 output. Both NPN and PNP transistor outputs are available on each flow meter.

**Ordering Codes**

| Model   |
|---|
| 1003  |
| 1015  |
| 1045  |
| 1065  |
| 1010  |
| 1024  |
| 1000  |
| <b>Seal Material</b> (seal temperature range) |
| V = Viton™ (-20 to +150°C)                    |
| N = Nitrile (-20 to +100°C)                   |
| E = EPDM (-30 to +150°C)                      |
| S = Silicone (-50 to +230°C)                  |
| <b>Options</b>                                |
| O = Standard NPN (<125°C)                     |
| 2 = NPN - PNP (< 60°C)                        |
| <b>Body Material</b>                          |
| P = PVDF                                      |
| S = 316 St St                                 |
| <b>Calibration</b>                            |
| O = Standard                                  |
| U = Uncalibrated                              |

e.g. **1065-VOP-O** is a flow range of 0.25 to 6.5 L/min, Viton™ seal, standard NPN, PVDF body flowmeter with a traceable 6 point water calibration.

**Standard Materials of Construction**

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



**TECHNICAL SPECIFICATIONS**

| 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  | 0.20 - 4.5       | 1.5             | 260               | 3500              |
| 1065  | 0.25 - 6.5       | 1.5             | 230               | 2100              |
| 1010  | 0.30 - 10.0      | 1.0             | 235               | 1420              |
| 1024  | 0.50 - 15.0      | 1.0             | 245               | 980               |
| 1000  | 2.00 - 30.0      | 1.0             | 360               | 720               |

