



This compact rugged oval gear flowmeter is designed to give high performance with a low cost of ownership. The meters cover flow ranges from 0.01 to 1.0 L/min on 30 cSt oil and 0.1 to 1.0 L/min on water like liquids. It can have totally non-metallic wetted components, PEEK, ceramic and an elastomer which makes this the ideal choice for the metering of aggressive chemicals. For OEM use alternatives, including manifold mountings, are available. The standard models have 316 St St or PEEK bodies with Viton® 'O' ring seals.

At the heart of the meter are a pair of toothed oval gears one of which contains chemically resistant magnets. Rotation is detected through the chamber wall by a Hall effect detector, Namur sensor or a reed switch giving approximately 2050 pulses per litre passed. The output is an NPN pulse or a voltage free contact closure either of which is readily interfaced with most electronic display or recording devices. This combination of materials and technology ensures a long life product with reliable, accurate operation throughout.



### IDEAL FOR

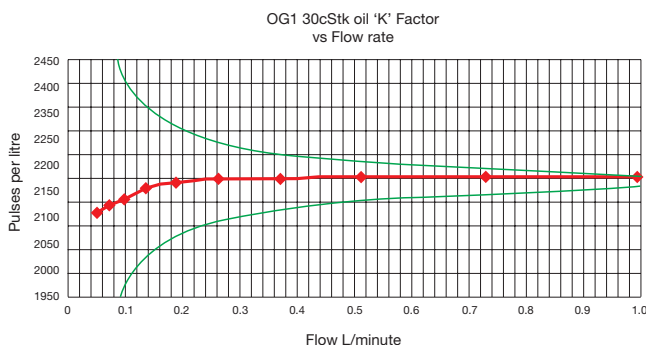
- Engine test
- Oil flow
- High viscosity fluids
- OEM equipment
- Hazardous areas



### FEATURES

- Excellent chemical resistance
- Rugged construction
- Individual calibration
- High viscosity capability
- Low pressure loss
- No flow conditioning required
- Compact meter assembly
- Hall, reed switch or Namur sensor
- Accuracy 1.0% FSD water  
0.75% FSD oil (30 cSt)
- ±0.5% reading \*
- 0.1% repeatability
- IP67/NEMA 4 protection
- Models to 700 Bar
- Non-metallic option

\* When used with our metra-smart instrument





version body in PEEK

**Ordering codes**

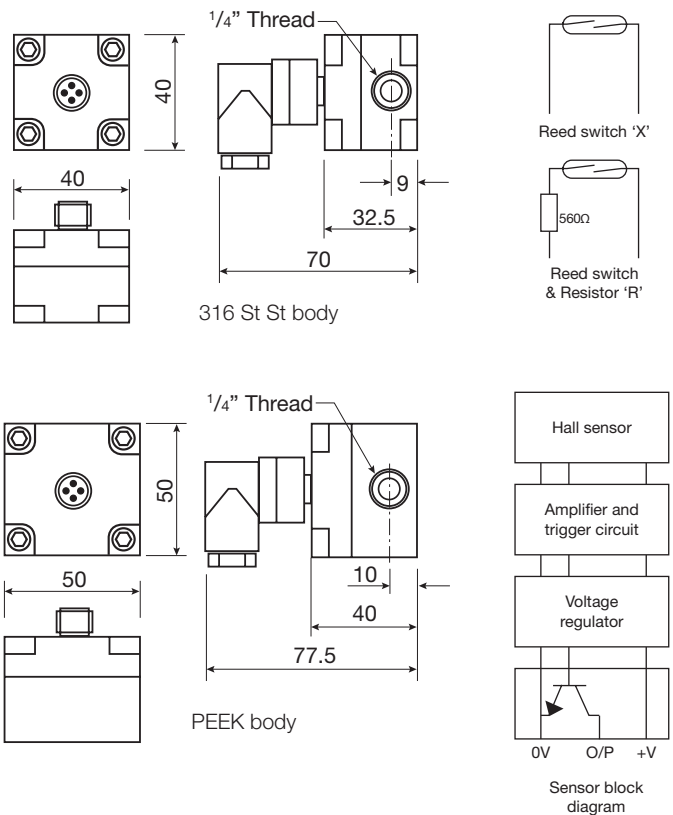
<b>Model</b>	<b>OG1</b>
<b>Body material</b>	<b>S = 316 St St 50 bar std</b>
	P = PEEK 10 Bar max H = Hastelloy C
<b>Temp rating</b>	<b>S = 80°C / 158°F</b>
	T = 100°C / 212°F U = 150°C / 300°F
<b>Pressure rating</b>	<b>5 = 50 Bar 750 PSI (St St)</b>
	1 = 10 Bar 150 PSI (Al / PEEK) 4 = 400 Bar 5880 PSI (St St) 7 = 700 Bar 10150 PSI (St St)
<b>Seal Material</b>	<b>V = Viton®</b>
	N = Nitrile E = EPDM P = PTFE (50 Bar max) K = Kalrez®
<b>Detector Type</b>	<b>H = Hall effect</b>
	R = Reed switch & Resistor N = Namur X = Reed switch (Hazardous area)
<b>Pipe Thread</b>	<b>Q = 1/4" (OG1 std)</b>
<b>Connections</b>	<b>B = BSP F</b>
	N = NPT F F = Flanged (specify)

e.g. **OG1-SS5-VHQ-B** is a stainless steel meter rated at 80°C, 50 Bar, Viton® seal, Hall effect detector and a 1/4" BSP thread.



**TECHNICAL SPECIFICATIONS**

Sample product codes →	Stainless standard OG1-SS5-VHQ-B	PEEK OG1-PS1-VHQ-B
Flow range	- Water - 30 cSt Oil 0.1 - 1.0 L/min 0.01 - 1.0 L/min	0.1 - 1.0 L/min 0.01 - 1.0 L/min
Wetted parts	- Body - Gears - Seal - Magnet 316 St St Carbon filled PEEK Viton™ Ceramic	PEEK Carbon filled PEEK Viton™ Ceramic
Accuracy	- Water - 30 cSt oil ± 1.0% FSD ± 0.75% FSD	± 1.0% FSD ± 0.75% FSD
Repeatability	± 0.1%	± 0.1%
Detector Type	Hall effect	Hall effect
Terminations	M12 instrument socket	M12 instrument socket
Approx 'K' factor – Pulses/Litre	2050	2050



Weight (kg)		
St St	50 Bar	0.360
PEEK	10 Bar	0.184
St St	400 Bar	3.000