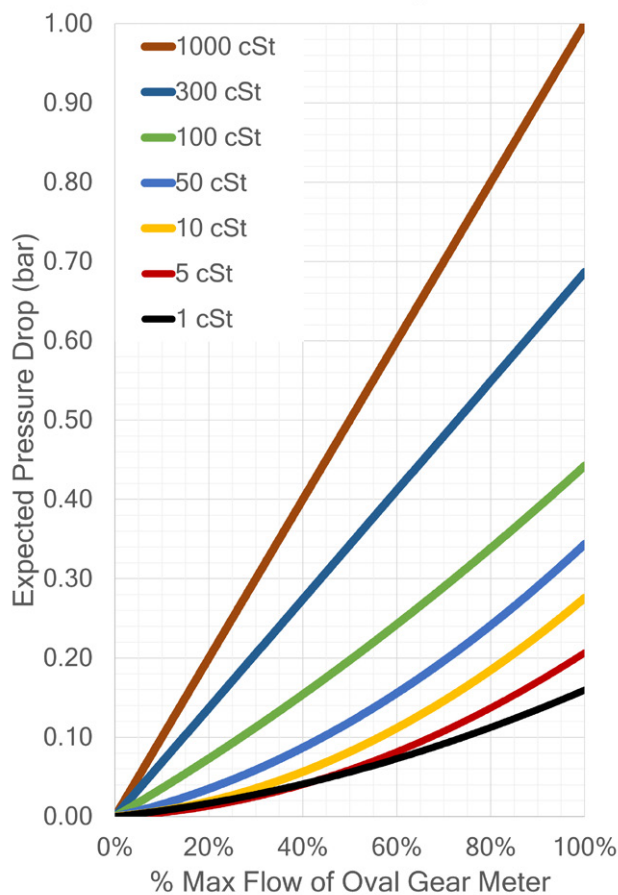




The compact rugged OG2 oval gear flowmeter is designed to give high performance with a low cost of ownership. It has a standard flow range from 0.03 to 4 L/min on 30 cSt oil and 0.15 to 4 L/min on water-like liquids. It can have totally non-metallic wetted components, PEEK, PTFE encapsulated magnets and elastomer seals, which makes this the ideal choice for the metering of aggressive chemicals. The standard inlet and outlet are ¼" female threads. For OEMs, alternatives are available, including manifold mountings. The standard model is 316 St St 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 or a reed switch giving approximately 1100 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.

Oval Gear Pressure Drop Information



FEATURES

- Excellent chemical resistance
- Rugged construction
- Individual calibration
- High viscosity options
- Low pressure drop
- No flow conditioning required
- Compact meter assembly
- Hall, reed switch or Namur sensor
- Accuracy 1.0% FSD water
0.75% FSD oil
- 0.1% repeatability
- IP65 protection
- Models to 700 bar (see High Pressure Data Sheet)
- Non-metallic option



IDEAL FOR

- Engine test
- Oil flow
- High viscosity liquids
- OEM equipment
- Hazardous areas
- Batching



Ordering codes

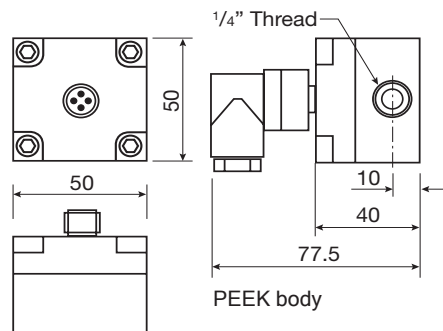
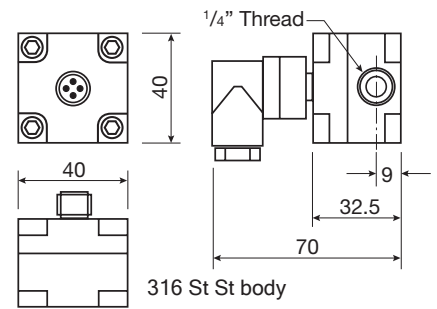
Model
OG2
Body Material
S = 316 St St 50 bar std
P = PEEK 10 bar max (at 80°C max)
Temp Rating
S = 80°C / 158°F
T = 100°C / 212°F
U = 150°C / 300°F (± 1.25%)
Pressure Rating
5 = 50 bar 750 PSI (St St)
1 = 10 bar 150 PSI (PEEK)
4 = 400 bar 5880 PSI (St St)
7 = 700 bar 10150 PSI (St St)
Seal Material
V = Viton™
N = Nitrile
E = EPDM
P = PTFE (50 bar max)
K = Kalrez®
Detector Type
H = Hall effect
R = Reed switch & Resistor
N = Namur
X = Reed switch (hazardous area)
Process Fitting Size
Q = 1/4" (OG2 std)
Process Fitting Type
B = BSP F
N = NPT F

e.g. **OG2-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 OG2-SS5-VHQ-B	PEEK standard OG2-PS1-VHQ-B
Flow range	- Water - 30 cSt Oil 0.15 - 4.0 L/min 0.03 - 4.0 L/min	0.15 - 4.0 L/min 0.03 - 4.0 L/min
Wetted materials	- Body - Gears - Seal - Magnet - Spindles 316 St St Carbon filled PEEK Viton™ PTFE St St	PEEK* Carbon filled PEEK Viton™ PTFE St St
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)	1100	1100
Viscosity Range^	1-1000 cSt	1-1000 cSt
* Hastelloy C spindles		
^ High viscosity (above 1000 cSt) options available		



Weight (kg)		
St St	50 bar	0.360
PEEK	10 bar	0.184