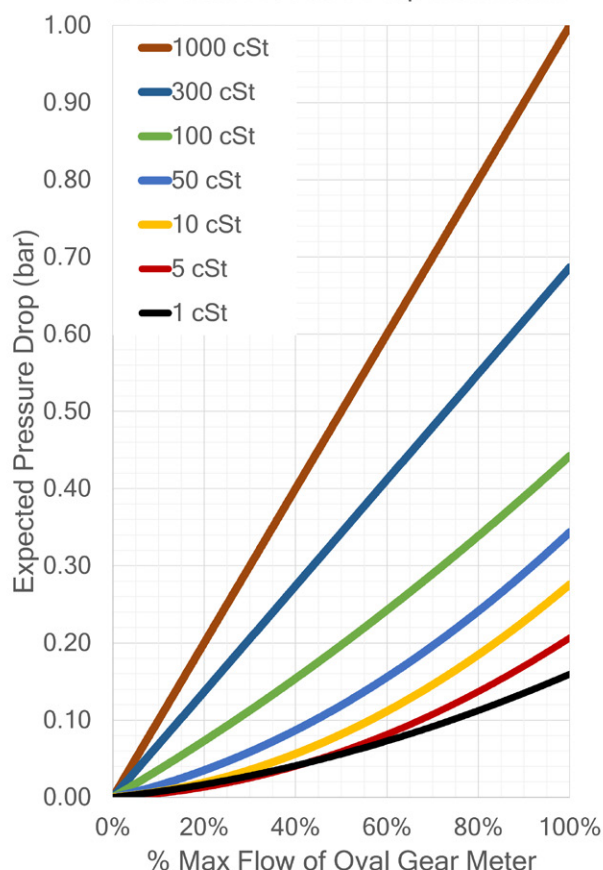




This compact rugged oval gear flowmeter is designed to give high performance with a low cost of ownership. The meters cover flow ranges from 0.01 to 1.0 L/min on 30 cSt oil and 0.1 to 1.0 L/min on water-like liquids. It can have totally non-metallic wetted components, PEEK, PTFE encapsulated magnets and elastomer seals, which makes this the ideal choice for the metering of aggressive chemicals. For OEMs, alternatives are available, including manifold mountings. 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.

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 (30 cSt)
- 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

OG1

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" (OG1 std)

Process Fitting Type

B = BSP F

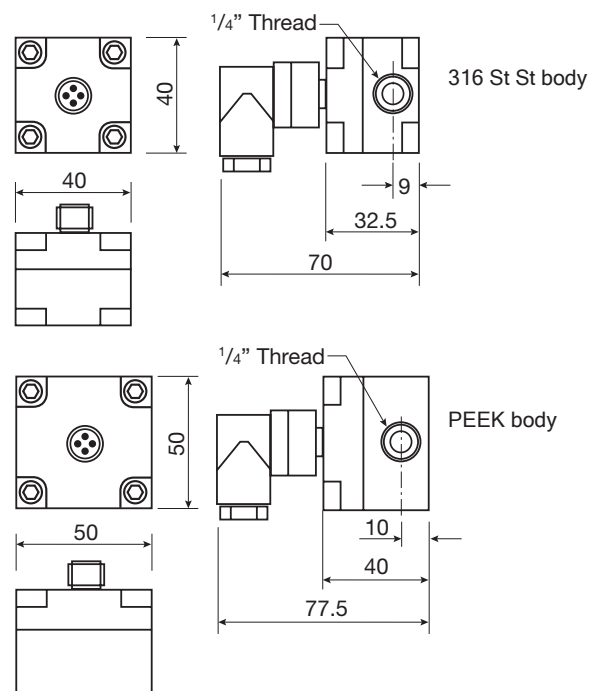
N = NPT F

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 STD 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 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)		2050	2050
Viscosity Range^		1-1000 cSt	1-1000 cSt
		* Hastelloy C spindles	
		^ High viscosity (above 1000 cSt) option available	



Weight (kg)

St St	50 bar	0.360
PEEK	10 bar	0.184