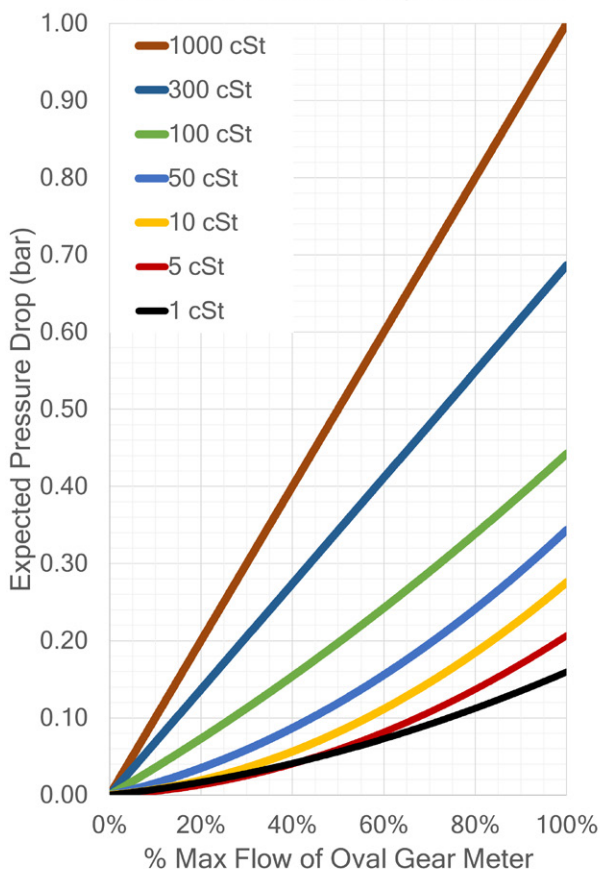




The compact rugged OG4 oval gear flowmeter is designed to give high performance with a low cost of ownership. It has a standard flow range from 0.25 to 50 L/min on 30 cSt oil and 2.5 to 50 L/min on water-like liquids. It can have totally non-metallic wetted components, PEEK, PTFE encapsulated magnets and elastomer seals which makes this the ideal choice for the metering of aggressive chemicals. The standard inlet and outlet are $\frac{3}{4}$ " female threads. For OEMs, alternatives are available, including manifold mountings. The standard model is 316 St St with Viton™ 'O' ring seal.

At the heart of the meter are a pair of toothed oval gears one of which contains chemically resistant magnets, the gears rotate freely on robust bearings. Rotation is detected through the chamber wall by a Hall effect detector or a reed switch giving approximately 115 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% reading water
0.5% reading oil (30 cSt)
- 0.1% repeatability
- IP65 protection
- Models to 700 bar
- Non-metallic option



IDEAL FOR

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



TECHNICAL SPECIFICATIONS

Sample product codes	Stainless standard OG4-SS5-VHT-B	Aluminium standard OG4-AS1-VHT-B	PEEK standard OG4-PS1-VHT-B
Flow range - Water - 30 cSt Oil	2.5 - 50 L/min 0.25 - 50 L/min	2.5 - 50 L/min 0.25 - 50 L/min	2.5 - 50 L/min 0.25 - 50 L/min
Wetted Materials - Body - Gears - Seal - Magnet - Spindles	316 St St Carbon filled PEEK Viton™ PTFE St St	Aluminium Carbon filled PEEK Viton™ PTFE St St	PEEK* Carbon filled PEEK Viton™ PTFE St St
Accuracy - Water - 30 cSt oil	± 1.0% Reading ± 0.5% Reading	± 1.0% Reading ± 0.5% Reading	± 0.5% FSD ± 0.5% FSD
Repeatability	± 0.1%	± 0.1%	± 0.1%
Detector Type	Hall effect	Hall effect	Hall effect
Terminations	Via M20 cable gland	MIL style instrument socket	4 PIN M12 connector
Approx 'K' factor (Pulses/Litre)	115	115	115
Viscosity Range^	1-1000 cSt	1-1000 cSt	1-1000 cSt

* Hastelloy C spindles

^ High viscosity (above 1000 cSt) options available

Ordering Codes

Model

OG4

Body Material

S = 316 St St 50 bar std

A = Aluminium 10 bar max

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

Pressure Rating

5 = 50 bar 750 PSI (St St)

1 = 10 bar 150 PSI (Al / 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)

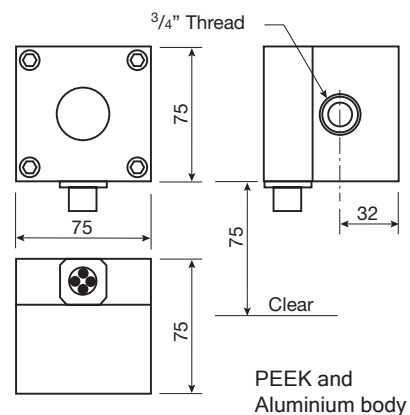
Process Fitting Size

T = 3/4" (OG4 std)

Process Fitting Type

B = BSP F

N = NPT F



Weight (kg)

St St	50 bar	1.600
PEEK	10 bar	0.550
Aluminium	10 bar	1.000
St St	400 bar	7.550

e.g. **OG4-SS5-VHT-B** is a stainless steel meter rated at 80°C, 50 bar, Viton™ seal, Hall effect detector and a 3/4" BSP thread.