

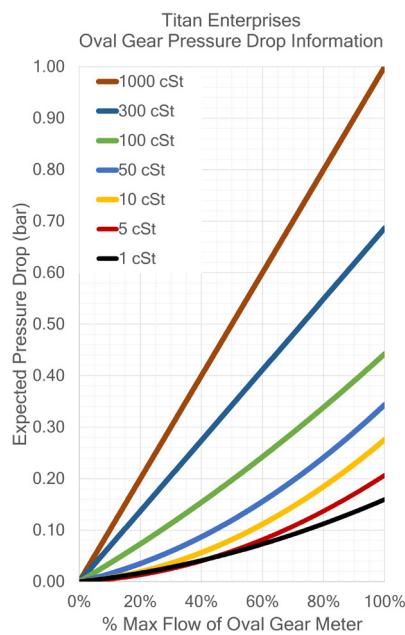
# OG4 50L/Min Oval Gear Meter

**The distributor**  
of your choice!



## IDEAL FOR

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



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.



## 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



## 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**

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.

## TITAN ENTERPRISES LTD.

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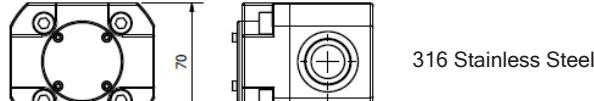
**Email: sales@flowmeters.co.uk**

**Web: www.flowmeters.co.uk**

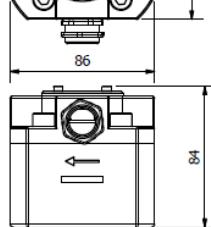


## TECHNICAL SPECIFICATIONS

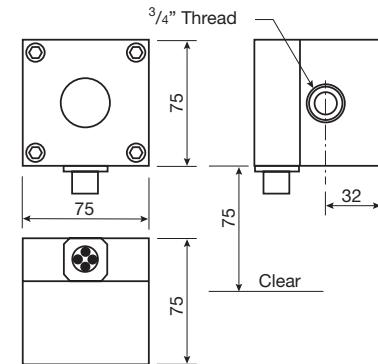
Sample product codes	Stainless standard OG4-SS5-VHT-B	Aluminium standard OG4-AS1-VHT-B	PEEK standard OG4-PS1-VHT-B
Flow range - Water - 30 cSt Oil	2.5 - 50 L/min 0.25 - 50 L/min	2.5 - 50 L/min 0.25 - 50 L/min	2.5 - 50 L/min 0.25 - 50 L/min
Wetted Materials	- Body 316 St St - Gears Carbon filled - Seal PEEK - Magnet Viton™ - Spindles PTFE	316 St St Carbon filled PEEK Viton™ PTFE	Aluminium Carbon filled PEEK Viton™ PTFE
Accuracy	- Water ± 1.0% Reading - 30 cSt oil ± 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



316 Stainless Steel



PEEK and Aluminium body



### Weight (kg)

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

For reference only; for latest information contact your local distributor.