

# OG3 10L/Min Oval Gear Meter

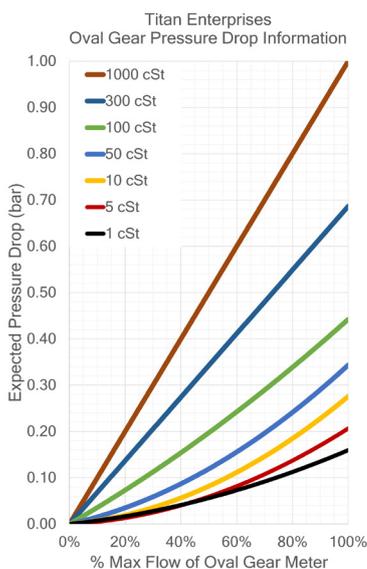


## IDEAL FOR

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

The compact rugged OG3 oval gear flowmeter is designed to give high performance with a low cost of ownership. It has a standard flow range from 0.05 to 10 L/Min on 30 cSt oil and 0.5 to 10 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 1/2" 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. Rotation is detected through the chamber wall by a Hall effect detector or a reed switch giving approximately 440 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 0.5% FSD water  
1.0% reading oil (30 cSt)
- 0.1% repeatability
- IP65 protection
- Models to 700 bar (see High Pressure Data Sheet)
- Non-metallic option

# OG3 10L/Min Oval Gear Meter



## Ordering codes

### Model

**OG3**

### 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

H = 1/2" (OG3 std)

### Process Fitting Type

B = BSP F

N = NPT F

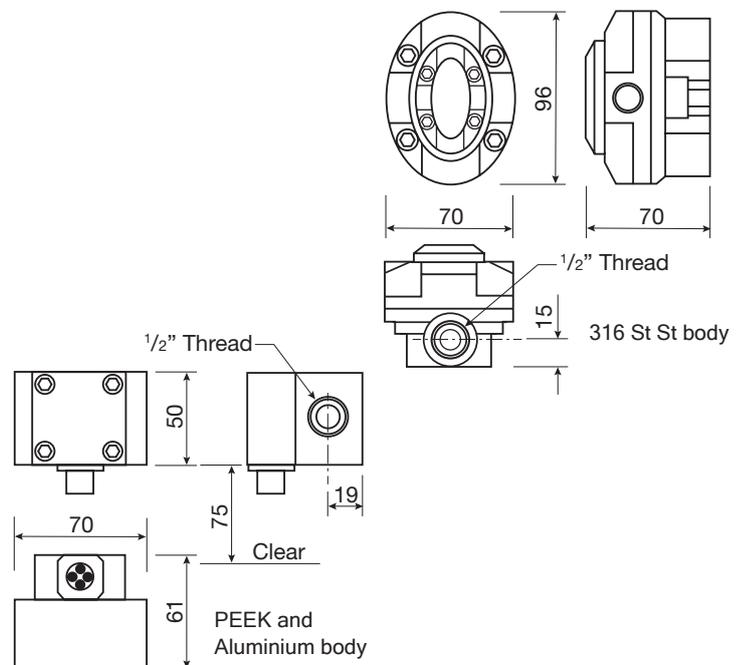
e.g. **OG3-SS5-VHH-B** is a stainless steel meter rated at 80°C, 50 bar, Viton™ seal, Hall effect detector and a 1/2" BSP thread.



## TECHNICAL SPECIFICATIONS

Sample product codes	Stainless standard OG3-SS5-VHH-B	Aluminium standard OG3-AS1-VHH-B	PEEK standard OG3-PS1-VHH-B
Flow range -Water - 30 cSt Oil	0.5 - 10 L/min 0.05 - 10 L/min	0.5 - 10 L/min 0.05 - 10 L/min	0.5 - 10 L/min 0.05 - 10 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 Hastelloy C
Accuracy - Water - 30 cSt oil	± 0.5% FSD ± 1.0% Reading	± 0.5% FSD ± 1.0% Reading	± 0.75% 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
Approx 'K' factor (Pulses/Litre)	440	440	440
Viscosity Range <sup>^</sup>	1-1000 cSt	1-1000 cSt	1-1000 cSt

<sup>^</sup> High viscosity (above 1000 cSt) options available



### Weight (kg)

St St	50 bar	1.350
PEEK	10 bar	0.230
Aluminium	10 bar	0.422
St St	400 bar	3.000
St St	700 bar	9.000

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