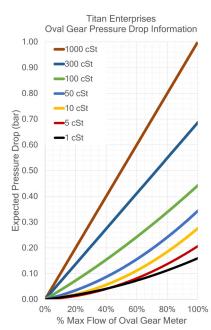


# OG4 50L/Min Oval Gear Meter





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



TITAN ENTERPRISES LTD. www.flowmeters.co.uk

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 ¾" 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

# OG4 50L/Min Oval Gear Meter





### **Ordering Codes**

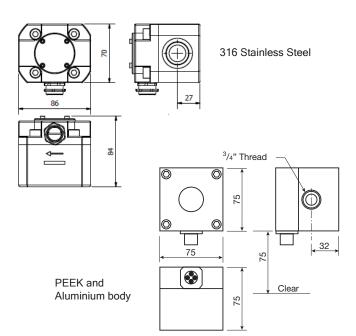
Body Material S = 316 St St 50 bar std A = Aluminium 10 bar max P = PEEK 10 bar max (at 80°C max)  Temp Rating S = 80°C / 158°F T = 100°C / 212°F U = 150°C / 300°F  Pressure Rating 5 = 50 bar 750 PSI (St St) 1 = 10 bar 150 PSI (AI / PEEK) 4 = 400 bar 5880 PSI (St St) 7 = 700 bar 10150 PSI (St St)  Seal 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	Model		
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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	4 = 400 bar 5880 PSI (St St)		
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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	Seal Material		
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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	Detector Type		
N = Namur  X = Reed switch (hazardous area)  Process Fitting Size  T = 3/4" (OG4 std)  Process Fitting Type  B = BSP F			
X = Reed switch (hazardous area)  Process Fitting Size  T = 3/4" (OG4 std)  Process Fitting Type  B = BSP F	R = Reed switch & Resistor		
Process Fitting Size $T = \frac{3}{4}$ " (OG4 std) Process Fitting Type $B = BSP F$	N = Namur		
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Process Fitting Type B = BSP F	Process Fitting Size		
B = BSP F	,		
	Process Fitting Type		
N = NPT F			
	N = NPT F		

e.g. **0G4-SS5-VHT-B** is a stainless steel meter rated at  $80^{\circ}$ C, 50 bar, Viton<sup>™</sup> seal, Hall effect detector and a  $^{3}$ /4" BSP thread.



## **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
Materials - Gears	PEEK Viton™ PTFE	Aluminium Carbon filled PEEK Viton™ PTFE St St	PEEK Carbon filled PEEK Viton™ PTFE Hastelloy C
Accuracy - Water - 30 cSt oil	± 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 <sup>^</sup>	1-1000 cSt	1-1000 cSt	1-1000 cSt
^ High viscosity (above	e 1000 cSt) options	available	



Weight (kg)		
St St	50 bar	1.600
PEEK	10 bar	0.550
Aluminium	10 bar	1.000
St St	400 bar	7.550

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