

OG2 - 4 L/MIN OVAL GEAR DATA SHEET

Excellent chemical resistance
 Rugged construction
 Individual calibration
 High viscosity capability
 Low pressure loss
 No flow conditioning required
 Compact meter assembly
 Hall, reed or Namur sensor
 Accuracy 1.0% FSD water
 0.5% FSD oil
 $\pm 0.5\%$ reading *

0.1% repeatability
 IP67/NEMA 4 protection
 Models to 400 Bar
 Non-metallic option
 * When used with our metra-smart instrument

Ideal for
 Engine test
 Oil flow
 High viscosity fluids
 OEM equipment
 Hazardous areas



TITAN ENTERPRISES LTD.

Coldharbour Business Park,
 Sherborne,
 Dorset,
 DT9 4JW

Phone (44) 01935 812790.

Fax (44) 01935 812890

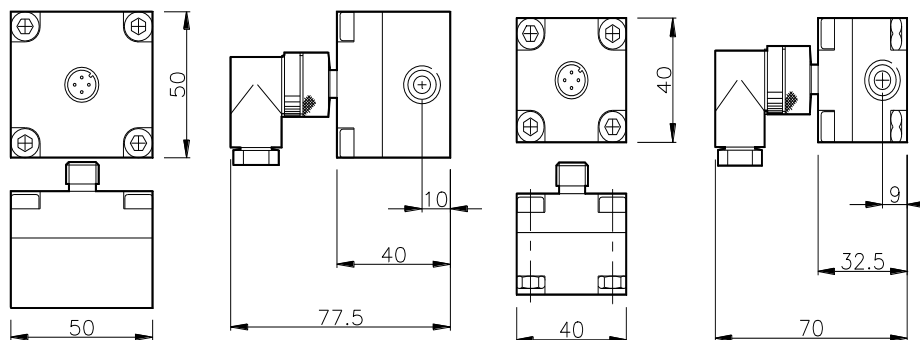
Web www.flowmeters.co.uk

Sales@flowmeters.co.uk



OG2 400 Bar

The compact rugged OG2 oval gear flowmeter is designed to give high performance with a low cost of ownership. It has a standard flow range from 0.03 to 4 L/Min on 30 Cstk oil and 0.15 to 4.0 L/min on water like liquids. It can have totally non-metallic wetted components, PEEK™, ceramic and an elastomer which makes this the ideal choice for the metering of aggressive chemicals. The standard inlet and outlet are 1/4" BSP female threads. For OEM use alternatives, including manifold mountings, are available. The standard model is 316 St St with Viton™ 'O' ring seal. For hazardous areas either the Namur sensor or the reed switch (simple apparatus) may be used.



PEEK™ body 1/4" thread

316 St St & aluminium body
1/4" thread

Order Codes

Body **OG2-S** 316 Stainless Steel

Type OG2-A Aluminum body

OG2-P PEEK body

Temp **S** 80°C

rating T 100°C

U 150°C

Pressure **5** 50 Bar (St St standard)

rating 1 10 Bar (Alu & PEEK std.)

4 400 Bar (St St only)

'O' ring **V** - Viton

Mat'l N - Nitrile

E - EPDM

K - Silicon

Detector **H** Hall effect

Type R Reed switch

N Namur

Pipe **Q** - 1/4"

thread H - 1/2"

size T - 3/4"

U - 1"

Conn- **B** - BSP F

nections N - NPT F

F - Flanged

(specify)

e.g. **OG1-S S 5 - V H Q-B** is a standard flowmeter with a flow range of 0.15 to 4.0 L/Min, 316 stainless steel body, 50 Bar pressure rating, Viton seal, Hall effect detector and 1/4" BSP female fittings with a standard 6 point traceable water calibration.

Standard Materials of Construction

Body and cap - 316 St St

PEEK

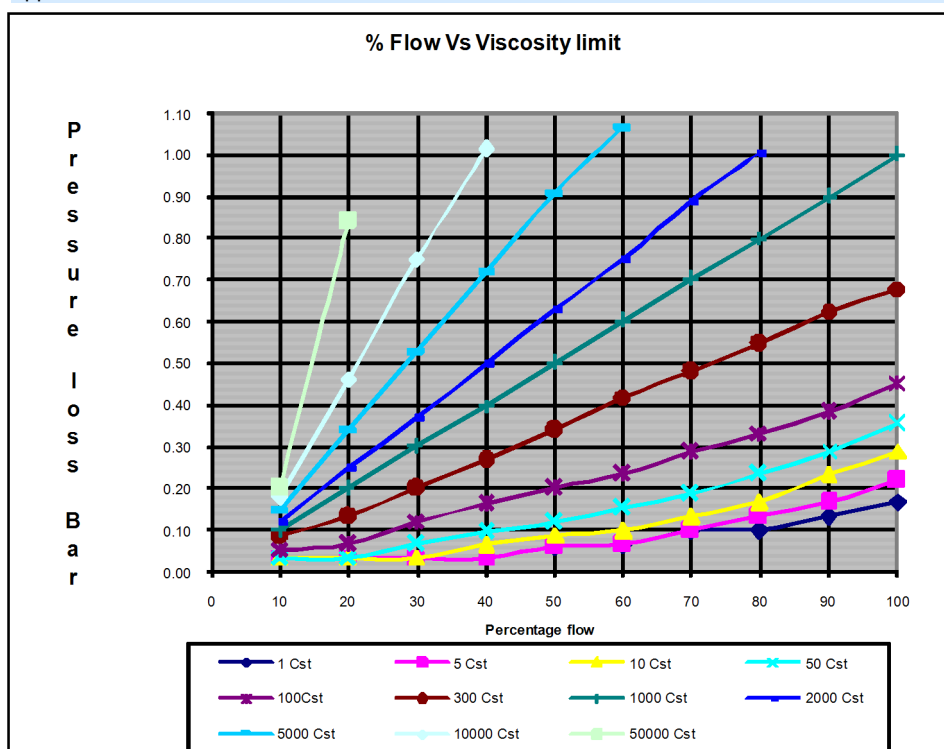
Aluminium

'O' Ring - Viton

Gears - PEEK

Magnets - Ceramic

		Stainless std.	Aluminium std.	PEEK Std.
Sample product	codes ⇒	OG2-SS5-VHQ-B	OG2-AS1-VHQ-B	OG2-PS1-VHQ-B
Flow range	- Water	0.15 - 4.0 LPM	0.15- 4.0 LPM	0.15- 4.0 LPM
	- 30 cSt Oil	0.03-4.0LPM	0.03-4.0LPM	0.03-4.0LPM
Wetted materials - Body		316 Stainless steel	Aluminium	PEEK™
- Gears		PEEK™	PEEK™	PEEK™
- Seal		Viton™	Viton™	Viton™
- Magnet		Ceramic	Ceramic	Ceramic
Standard pressure rating		50 Bar	10 Bar	10 Bar
Accuracy	- Water	± 1.0 % FSD	± 1.0 % FSD	± 1.0 % FSD
	- 30 cSt oil	± 0.75% FSD	± 0.75% FSD	± 0.75% FSD
Repeatability		± 0.1%	± 0.1%	± 0.1%
Detector type		Hall effect	Hall effect	Hall effect
Terminations		M12 instrument skt	M12 instrument skt	M12 instrument skt
Approximate 'K' factor - Pulse/L		1100	1100	1100



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, Namur sensor or a reed switch giving approximately 1100 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.

