

OG7 - 500 L/MIN OVAL GEAR DATA SHEET

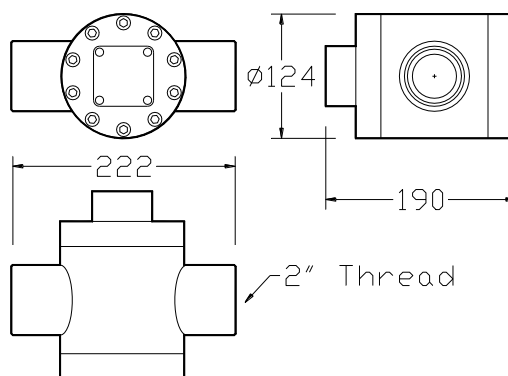
- Excellent chemical resistance
- Rugged construction
- Individual calibration
- High viscosity capability
- Low pressure loss
- No flow conditioning required
- Compact meter assembly
- Hall, reed or Namur sensor
- Accuracy 1.0% reading H₂O
- 0.5% reading oil
- ±0.25% reading*
- 0.1% repeatability
- IP67/NEMA 4 protection

* When used with our metra-smart instrument

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



The rugged OG7 oval gear flowmeter is designed to give high performance with a low cost of ownership. It has a standard flow range from 5.0 to 500 L/Min on 30 Cstk oil and 20 to 500 L/min on water like liquids. The standard inlet and outlet are 2" BSP female threads. For OEM use alternatives, including manifold and flange 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.



316 St St body



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

Order Codes

Body **OG7-S** 316 Stainless Steel

Type

Temp rating
S 80°C
 T 100°C
 U 150°C

Pressure rating
5 50 Bar (St St standard)

'O' ring Mat'l
V - Viton
 N - Nitrile
 E - EPDM
 K - Kalrez

Detector Type
H Hall effect
 R Reed switch
 N Namur

Pipe thread size
 U- 1"
 P - 1 1/2"
 D - 2"

Conn-
 ections
B - BSP F
 N - NPT F
 F - Flanged
 (specify)

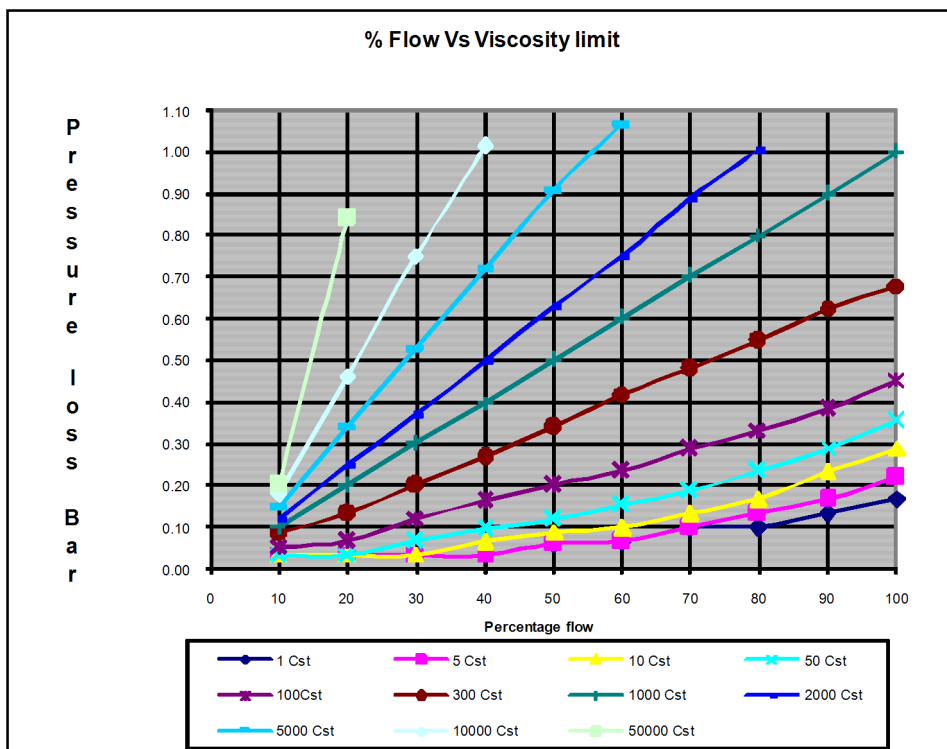
e.g. **OG7-S S 5 - V H D-B** is a standard flowmeter with a flow range of 20 to 500 L/Min, 316 stainless steel body, 50 Bar pressure rating, Viton seal, Hall effect detector and 2" BSP female fittings with a standard 6 point traceable water calibration.

Standard Materials of Construction

Body and cap - 316 St St
 'O' Ring - Viton
 Gears - PEEK
 Magnets - Ceramic

Sample product codes =>

		Stainless std.
		OG7-SS5-VHD-B
Flow range	- Water	20 - 500 LPM
	- 30 cSt Oil	5-500LPM
Wetted materials - Body		316 Stainless steel
	- Gears	PEEK™
	- Seal	Viton™
	- Magnet	Ceramic
Standard pressure rating		50 Bar
Accuracy	- Water	± 1.0 % Reading
	- 30 cSt oil	± 0.5% Reading
Repeatability		± 0.1%
Detector type		Hall effect
Terminations		Cable gland
Approximate 'K' factor - Pulse/L		15



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 15 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.

