

# OG7 500L/Min Oval Gear Meter

## Technical Product data sheet



### OG7 500L/Min Oval Gear Meter

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 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" female threads. For OEM use other alternatives, including manifold mountings, are available. The standard model is 316 St St with Viton™ 'O' ring seal.

#### Features

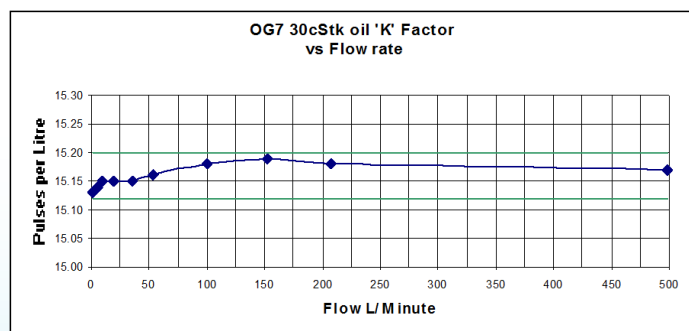
- Excellent chemical resistance
- Rugged construction
- Individual calibration
- High viscosity capability
- Low pressure loss
- No flow conditioning required
- Hall, reed switch or Namur sensor
- Accuracy 1.0 % reading water  
0.5 % reading oil
- $\pm 0.25\%$  reading \*
- 0.1% repeatability
- IP67/NEMA 4 protection

\* When used with our metra-smart instrument

#### Ideal for

- ◆ Engine test
- ◆ Oil flow
- ◆ High viscosity fluids
- ◆ OEM equipment

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 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.



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## OG7 500L/Min Oval Gear Meter

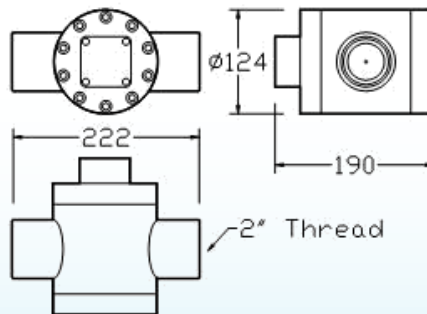
### Order Codes

Model	<b>OG7</b>
Body mat'l	<b>S</b> - 316 St St 50 bar std
Temp rating	<b>S</b> = 80°C / 158°F T = 100°C / 212°F U = 150°C / 300°F
Pressure Rating	<b>5</b> - 50 Bar 750 PSI
Seal material	<b>V</b> - Viton™ N - Nitrile E - EPDM K - Kalrez
Detector type	<b>H</b> - Hall Effect R - Reed switch N - Namur
Pipe thread	<b>D</b> - 2" (OG7 std)
Connections	<b>B</b> - BSP F N - NPT F F - Flanged (specify)

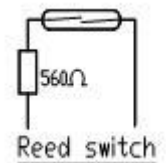
e.g. A stainless steel meter rated at 80°C, 50 Bar, with Viton™ seal, Hall effect detector and a 2" BSP thread would have the order code :- **OG7-SS5-VHD-B**

Sample product codes →		Stainless standard OG7-SS5-VHD-B
Flow range	- Water - 30 cSt Oil	20 - 500 LPM 5.0 - 500 LPM
Wetted mats	- Body - Gears - Seal - Magnet	316 St St Carbon filled PEEK™ Viton™ Ceramic
Accuracy	- Water - 30 cSt oil	± 1.0 % Reading ± 0.5 % Reading
Repeatability		± 0.1%
Detector Type		Hall effect
Terminations		M12 Terminal cable gland
Approx 'K' factor - Pulses/Litre		15

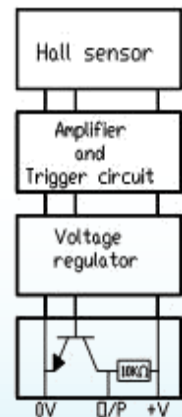
Weight in kg	
St St - 50 Bar	12.000



316 St St body



Reed switch



Sensor block diagram