

OG6 200L/Min Oval Gear Meter

Technical Product data sheet



OG6 200L/Min Oval Gear Meter

The rugged OG6 oval gear flowmeter is designed to give high performance with a low cost of ownership. It has a standard flow range from 2.0 to 200 L/Min on 30 Cstk oil and 10 to 200 L/min on water like liquids. The standard inlet and outlet are 1½” female threads. For OEM use alternatives, including manifold mountings, are available. The standard model is 316 St St with Viton™ ‘O’ ring seal.

Features

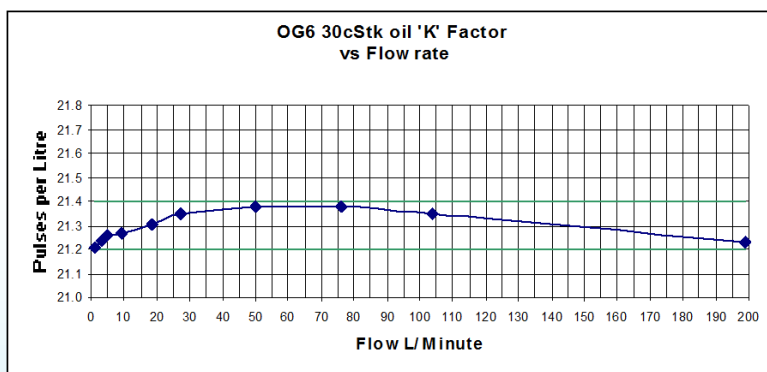
- Excellent chemical resistance
- Rugged construction
- Individual calibration
- High viscosity capability
- Low pressure loss
- No flow conditioning required
- Hall, reed switch or Namur sensor
- Accuracy 1.0 % reading water
0.5 % reading oil
- ±0.25% reading *
- 0.1% repeatability
- IP67/NEMA 4 protection
- Models to 400 Bar

* 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 21 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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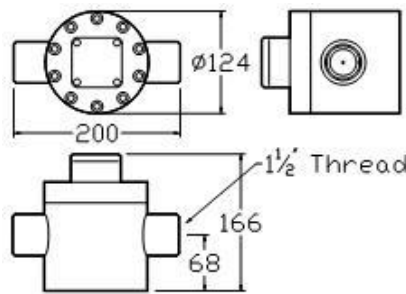
Order Codes

| | |
|-----------------|---|
| Model | OG6 |
| Body mat'l | <p>S - 316 St St 50 bar std A - Aluminium 10bar max</p> |
| Temp rating | <p>S = 80°C / 158°F T = 100°C / 212°F U = 150°C / 300°F</p> |
| Pressure Rating | <p>5 - 50 Bar 750 PSI (St St) 1 - 10 Bar 150 PSI (Al) 4 - 400 Bar 5880 PSI (St St)</p> |
| Seal material | <p>V - Viton™ N - Nitrile E - EPDM K - Kalrez</p> |
| Detector type | <p>H - Hall Effect R - Reed switch N - Namur</p> |
| Pipe thread | P - 1½" (OG6 std) |
| Connections | <p>B - BSP F N - NPT F F - Flanged (specify)</p> |

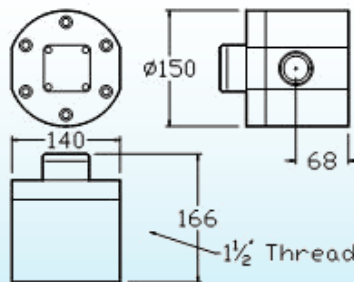
e.g. A stainless steel meter rated at 80°C, 50 Bar, with Viton™ seal, Hall effect detector and a 1½" BSP thread would have the order code:- **OG6-SS5-VHP-B**

| Sample product codes ⇨ | Stainless standard OG6-SS5-VHP-B | Aluminium standard OG6-AS1-VHP-B |
|----------------------------------|---|---|
| Flow range | - Water - 30 cSt Oil | 10 - 200.0 LPM 2.0 - 200.0 LPM |
| Wetted mats | - Body - Gears - Seal - Magnet | 316 St St Carbon filled PEEK™ Viton™ Ceramic |
| Accuracy | - Water - 30 cSt oil | Aluminium Carbon filled PEEK™ Viton™ Ceramic |
| Repeatability | ± 1.0 % Reading ± 0.5% Reading | ± 1.0 % Reading ± 0.5% Reading |
| Detector Type | ± 0.1% | ± 0.1% |
| Terminations | Hall effect | Hall effect |
| Approx 'K' factor - Pulses/Litre | Terminal Block P69 cable gland | Terminal Block P69 cable gland |
| | 21 | 21 |

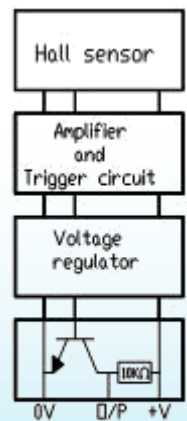
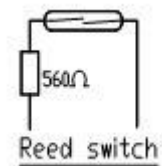
| Weight in kg | | |
|--------------|-----------|--------|
| St St | - 50 Bar | 8.000 |
| Aluminium | - 10 Bar | 6.000 |
| St St | - 400 Bar | 12.000 |



316 St St body



Aluminium body



Sensor block diagram