

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 cSt 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.

At the heart of the meter are a pair of toothed oval gears one of which contains chemically resistant magnets. 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.



IDEAL FOR

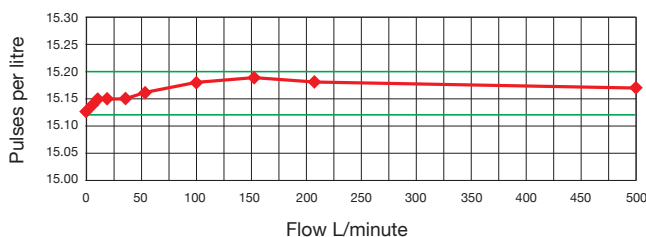
- Engine test
- Oil flow
- High viscosity fluids
- OEM equipment
- Hazardous areas



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 (30 cSt)
 - ±0.5% reading *
 - 0.1% repeatability
 - IP67/NEMA 4 protection
- * When used with our metra-smart instrument

OG7 30cStk oil 'K' Factor
vs Flow rate





Ordering codes

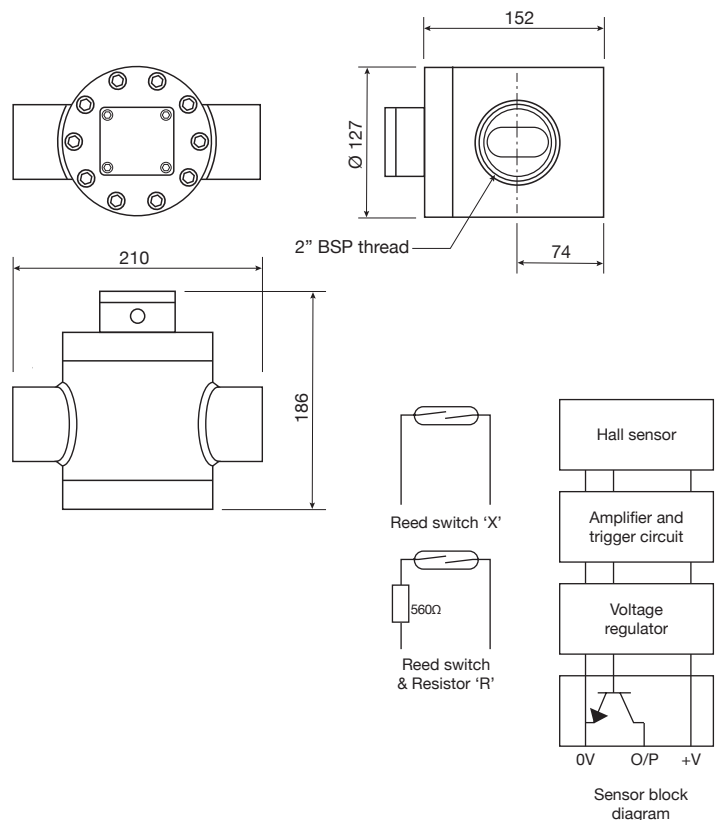
Model	OG7
Body material	S = 316 St St 50 bar std
Temp rating	S = 80°C / 158°F T = 100°C / 212°F U = 150°C / 300°F
Pressure rating	5 = 50 Bar 750 PSI
Seal Material	V = Viton® N = Nitrile E = EPDM K = Kalrež
DetectorType	H = Hall effect R = Reed Switch & Resistor N = Namur X = Reed Switch (Hazardous area)
Pipe Thread	D = 2" (OG7 std)
Connections	B = BSP F N = NPT F F = Flanged (specify)

e.g. **OG7-SS5-VHD-B** is a stainless steel meter rated at 80°C, 50 Bar, Viton™ seal, Hall effect detector and a 2" BSP thread.



TECHNICAL SPECIFICATIONS

Sample product codes →	Stainless standard OG7-SS5-VHD-B	
Flow range	- Water - 30 cSt Oil	20 - 500 L/min 5.0 - 500 L/min
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		Halleffect
Terminations		P67
Approx 'K' factor – Pulses/Litre		15
Weight	50 Bar	12.0kg



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