

Product information



Metra-flow OG3 10 L/Min oval gear meter

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

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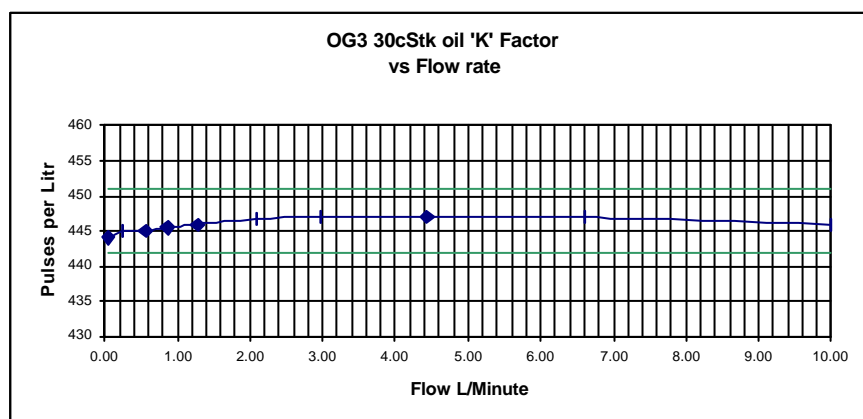
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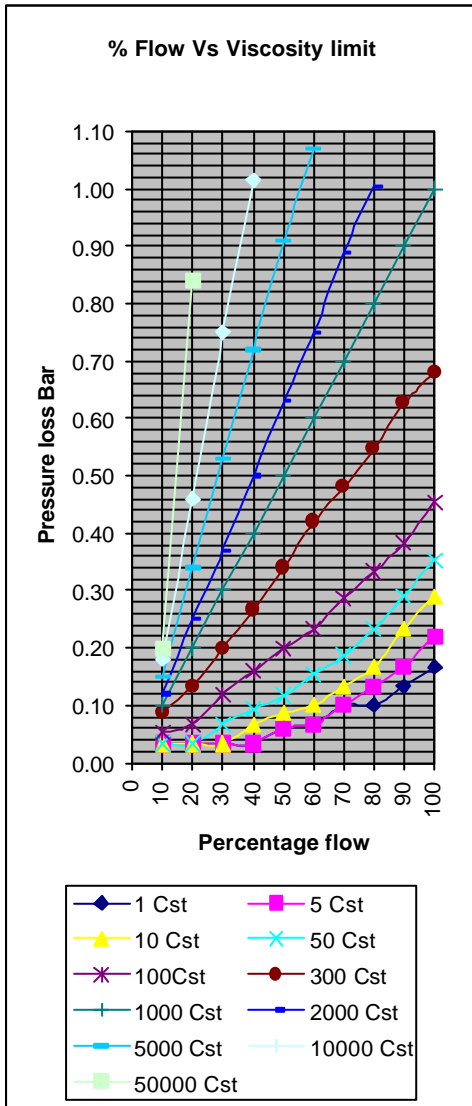
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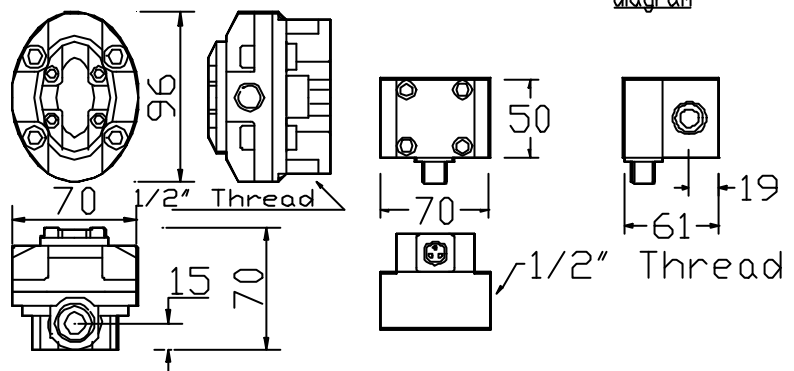
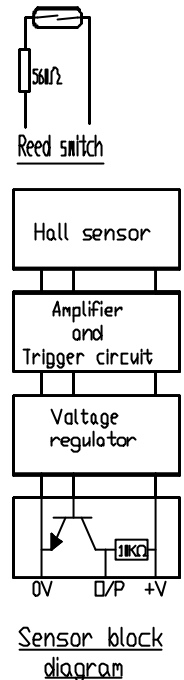
The compact rugged OG3 oval gear flowmeter is designed to give high performance with a low cost of ownership. It has a standard flow range from 0.05 to 10 L/Min on 30 Cstk oil and 0.5 to 10 L/min on water like liquids. It can have totally non-metallic wetted components, PEEK™, ceramic and an elastomer which makes this the ideal choice for the metering of aggressive chemicals. The standard inlet and outlet are ½" female threads. For OEM use alternatives, including manifold mountings, are available. The standard model is 316 St St with Viton™ 'O' ring seal.



Sample product codes→	Stainless standard OG3-SS5-VHH-B	Aluminium standard OG3-AS1-VHH-B	PEEK Standard OG3-PS1-VHH-B
Flow range - Water - 30 cSt Oil	0.5 - 10.0 LPM 0.05 - 10.0 LPM	0.5- 10.0 LPM 0.05-10.0 LPM	0.5- 10.0 LPM 0.05-10.0 LPM
Wetted materials - Body - Gears - Seal - Magnet	316 Stainless steel Carbon filled PEEK™ Viton™ Ceramic	Aluminium Carbon filled PEEK™ Viton™ Ceramic	PEEK™ Carbon filled PEEK™ Viton™ Ceramic
Accuracy - Water - 30 cSt oil	± 0.5 % FSD ± 1.0% Reading	± 0.5 % FSD ± 1.0% Reading	± 0.5 % FSD ± 0.5% FSD
Repeatability	± 0.1%	± 0.1%	± 0.1%
Detector type	Hall effect	Hall effect	Hall effect
Terminations	Via M20 cable gland	MIL style instrument socket	MIL style instrument socket
Approximate 'K' factor - Pulses/Litre	400	400	400



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 400 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.



316 St St body

PEEK™ & Aluminium body

Model	Body material	Temp rating	Pressure rating	Seal material	Detector type	Pipe thread	Connections	Display mounting options
OG3 OG3	316 St St 50 Bar std	S 80°C 158°F S	50 Bar 750 PSI 5	Viton V	Hall effect H	1/4" (OG1&2 standard)	Q BSP F B	Rate & Total on meter C
	Aluminium 10 Bar max	A 100°C 212°F T	10 Bar 150 PSI 1	Nitrile N	Reed switch R	1/2" (OG3 Standard)	H NPT F N	Rate & total Ex on meter E
	PEEK™ 10 Bar max	P 150°C 300°F U	400 Bar 5880 PSI 4	EPDM E		3/4" (OG4 standard)	T Flanged (specify) F	Rate & Total plus 4-20mA U
				Kalrez K		1" (OG5 standard)	U	Rate & total + 4-20mA Ex X
						1 1/2" (OG6 standard)	P	Metra-Batch on meter B
						2" (OG7 standard)	D	Metra-Batch remote R

A stainless steel meter rated at 80°C, 50 Bar, with Viton™ seal, Hall effect detector and a 1/2" BSP thread would have the order code :-OG3-SS5-VHH-B