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
- ±0.5% reading *
- 0.1% repeatability
- IP67/NEMA 4 protection
- Models to 400 Bar
- Non-metallic option

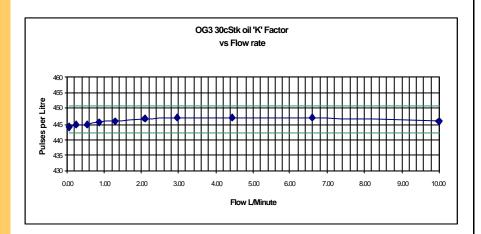
* When used with our metra-smart instrument

Ideal for

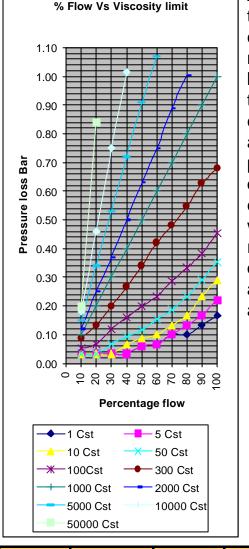
- Engine test
- Oil flow
- High viscosity fluids
- OEM equipment



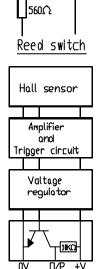
The compact rugged OG3 oval gear flowmeter is designed to give high performance with a low cost of ownership. It has a standard flow range from 0.05 to 10 L/Min on 30 Cstk oil and 0.5 to 10 L/min on water like liquids. It can have totally PEEK™. non-metallic wetted components, ceramic and an elastomer which makes this the ideal choice for the metering of aggressive chemicals. The standard inlet and outlet are $\frac{1}{2}$ " female threads. For OEM use alternatives, including manifold mountings, are available. The standard model is 316 St St with Viton[™] 'O' ring seal.



Sai	mple product code s ⇒	Stainless standard OG3-SS5-VHH-B	Aluminium standard OG3-AS1-VHH-B	PEEK Standard OG3-PS1-VHH-B		
Flow range	- Water	0.5 - 10.0 LPM	0.5– 10.0 LPM	0.5– 10.0 LPM		
	- 30 cSt Oil	0.05 - 10.0 LPM	0.05-10.0 LPM	0.05-10.0 LPM		
Wetted materials - Body		316 Stainless steel	Aluminium	PEEK™		
	- Gears	Carbon filled PEEK™	Carbon filled PEEK™	Carbon filled PEEK™		
	- Seal	Viton™	Viton™	Viton™		
	- Magnet	Ceramic	Ceramic	Ceramic		
Accuracy	- Water	± 0.5 % FSD	± 0.5 % FSD	± 0.5 % FSD		
	- 30 cSt oil	± 1.0% Reading	± 1.0% Reading	± 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 Rotation bearings. 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.



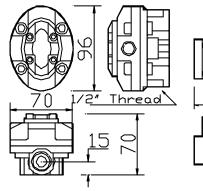
<u>Sensor block</u> <u>diagram</u>

O

61

Thread

-19



316 St St body

PEEK[™] & Aluminium body

50

70

Model		Body material		Temp rating		Pressure rating		Seal material		Detector type		Pipe thread		Connec- tions		Display mount- ing options	•
OG3	OG3	316 St St 50 Bar std	S	80°C 158° F	S	50 Bar 750 PSI	5	Viton	V	Hall effect	н	1/4"(OG1&2 standard)	Q	BSP F	В	Rate & Total on meter	С
		Aluminium 10 Bar max	Α	100°C 212°F	Т	10 Bar 150 PSI	1	Nitrile	Ν	Reed switch	R	½" (OG3 Standard)	Н	NPT F	Ν	Rate & total Ex on meter	E
		PEEK™ 10 Bar max	Ρ	150°C 300°F	U	400 Bar 5880 PSI	4	EPDM	E			3/4" (OG4 standard)	Т	Flanged (specify)	F	Rate & Total plus 4-20mA	U
Kalrez						Kalrez	K			1" (OG5 stan- dard)	U			Rate & total + 4- 20mA Ex	х		
A stainless steel meter rated at 80°C, 50 Bar, with Viton™ seal, Hall effect de-)-	11/2" (OG6 standard)	Р			Metra-Batch on meter	В					
tector and a $\frac{1}{2}$ " BSP thread would have the order code :-OG3-SS5-VHH-B								2" (OG7 stan- dard)	D			Metra-Batch remote	R				