JLC International
Phone: 215-340-2650
Fax: 215-340-3670

948 Lenape Drive Town Center, New Britain, PA 18901
email: jlcusa@jlcinternational.com
www.jlcinstrumentation.com & www.jlcinternational.com

Product information

Metra-flow OG4 50 L/Min oval gear meter

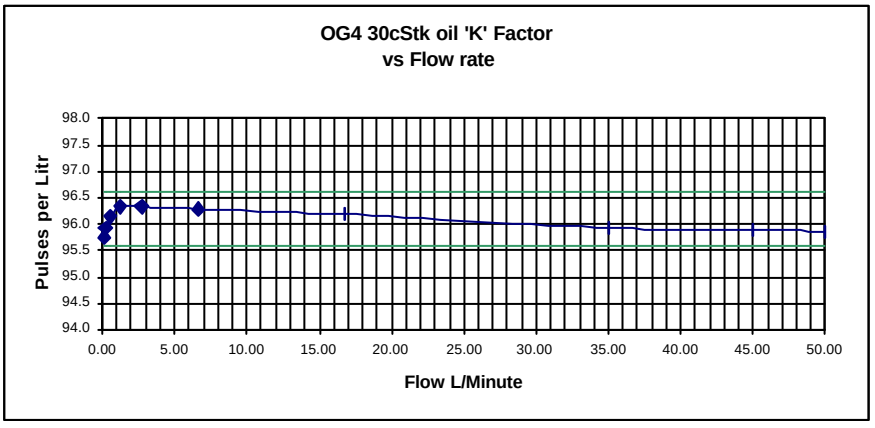
- Excellent chemical resistance
- Rugged construction
- Individual calibration
- High viscos ity capability
- Low pressure loss
- No flow conditioning required
- Compact meter assembly
- Hall or reed switch sensor
- Accuracy 1.0% reading water
  0.5% reading oil
- ±0.25% reading *
- 0.1% repeatability
- IP67/NEMA 4 protection
- Models to 400 Bar
- Non-metalic option

* When used with our metra-smart instrument

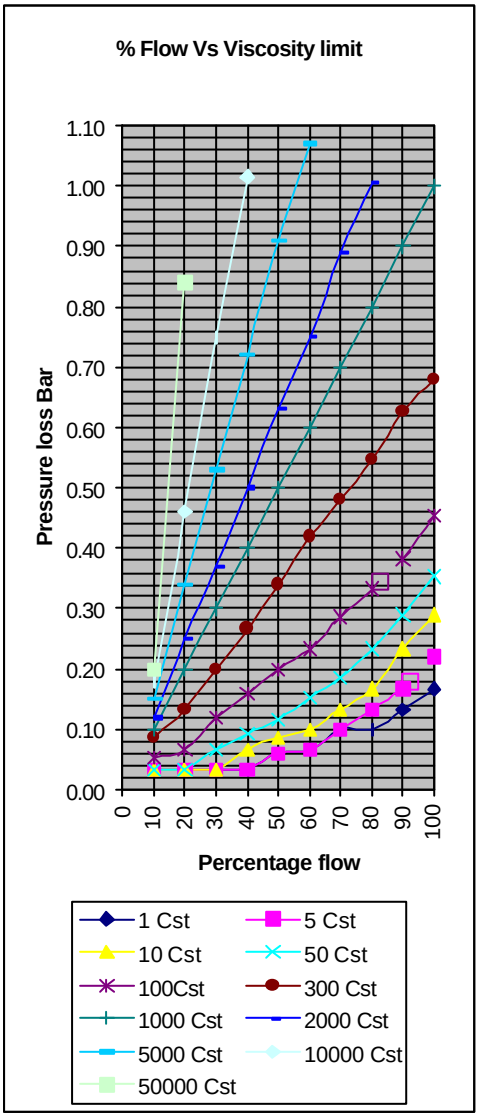
Ideal for

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

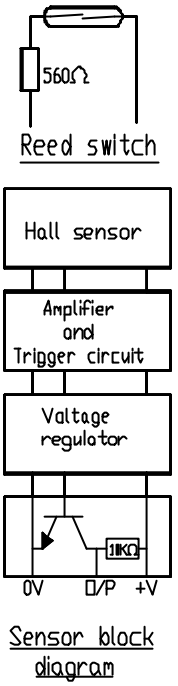
The compact rugged OG4 oval gear flowmeter is designed to give high performance with a low cost of ownership. It has a standard flow range from 0.25 to 50 L/Min on 30 Cstk oil and 2.5 to 50 L/ min on water like liquids. It can have totally non-metallic wetted components, PEEK™, ceramic and an elastomer which makes this the ideal choice for the metering of aggressive chemicals. The standard inlet and outlet are ¾" female threads. For OEM use alternatives, including manifold mountings, are available. The standard model is 316 St St with Viton™ 'O' ring seal.

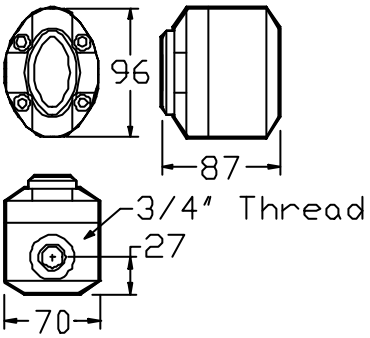


Sample product codes⇒		Stainless standard OG4-SS5-VHT-B	Aluminium standard OG4-AS1-VHT-B	PEEK Standard OG4-PS1-VHT-B
Flow range	- Water	2.5 - 50.0 LPM	2.5 - 50.0 LPM	2.5 - 50.0 LPM
	- 30 cSt Oil	0.25 - 50 LPM	0.25 - 50 LPM	0.25 - 50 LPM
Wetted materials	- Body	316 Stainless steel	Aluminium	PEEK™
	- Gears	Carbon filled PEEK™	Carbon filled PEEK™	Carbon filled PEEK™
	- Seal	Viton™	Viton™	Viton™
	- Magnet	Ceramic	Ceramic	Ceramic
Accuracy	- Water	± 1.0 % Reading	± 1.0 % Reading	± 0.5 % FSD
	- 30 cSt oil	± 0.5% Reading	± 0.5% 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		100	100	100

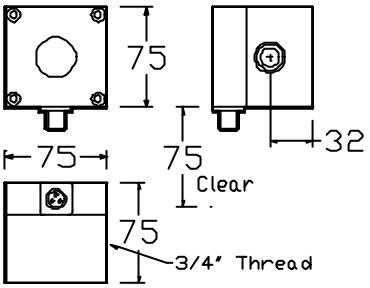


At the heart of the meter are a pair of toothed oval gears one of which contains chemically resistant magnets, the gears rotate freely on robust bearings. Rotation is detected through the chamber wall by a Hall effect detector or a reed switch giving approximately 100 pulses per litre passed. The output 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	
OG4	OG4	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	½" (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
												11/2" (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 ¾" BSP thread would have the order code :-OG4-SS5-VHT-B