Product information

Metra-flow OG5 100 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 0.75% 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

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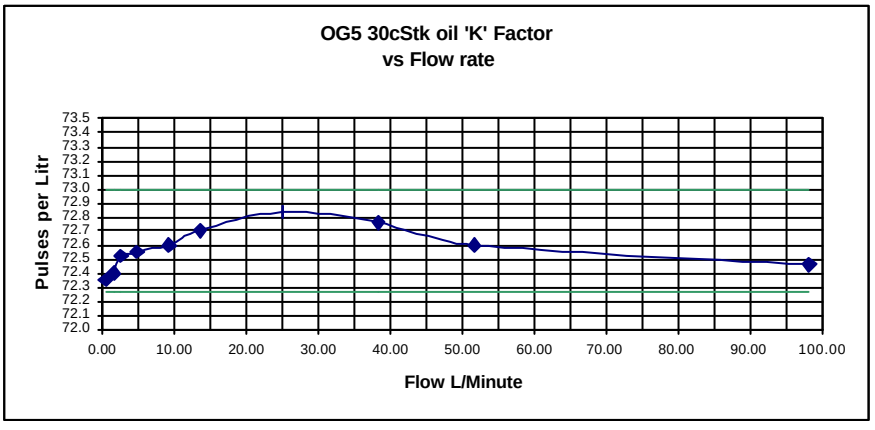
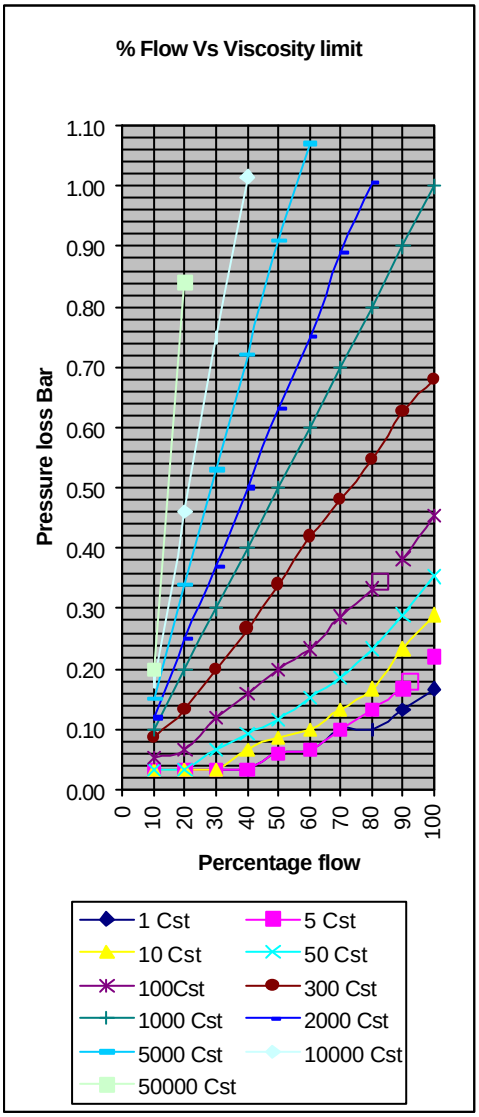
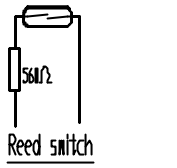
The compact rugged OG5 oval gear flowmeter is designed to give high performance with a low cost of ownership. It has a standard flow range from 0.5 to 100 L/Min on 30 Cstk oil and 4 to 100 L/min on water like liquids. It can have totally non-metallic wetted components, PEEK™, ceramic and an elastomer which makes this the ideal choice for the metering of aggressive chemicals. The standard inlet and outlet are 1" female threads. For OEM use alternatives, including manifold mountings, are available. The standard model is 316 St St with Viton™ 'O' ring seal.

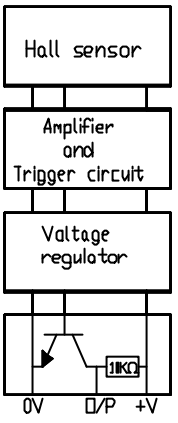


Sample product codes⇨		Stainless standard OG5-SS5-VHU-B	Aluminium standard OG5-AS1-VHU-B
Flow range	- Water	4 - 100 LPM	4 – 100 LPM
	- 30 cSt Oil	0.5 - 100 LPM	0.5 - 100 LPM
Wetted materials	- Body	316 Stainless steel	Aluminium
	- Gears	Carbon filled PEEK™	Carbon filled PEEK™
	- Seal	Viton™	Viton™
	- Magnet	Ceramic	Ceramic
Accuracy	- Water	± 0.5 % reading	± 0.5 % reading
	- 30 cSt oil	± 0.25% Reading	± 0.25% Reading
Repeatability		± 0.1%	± 0.1%
Detector type		Hall effect	Hall effect
Terminations		M12 gland	M12 gland
Approximate 'K' factor - Pulses/Litre		70	70

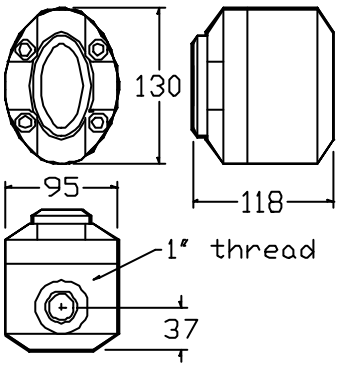


At the heart of the meter are a pair of toothed oval gears one of which contains chemically resistant magnets, the gears rotate freely on robust bearings. Rotation is detected through the chamber wall by a Hall effect detector or a reed switch giving approximately 70 pulses per litre passed. The output 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.

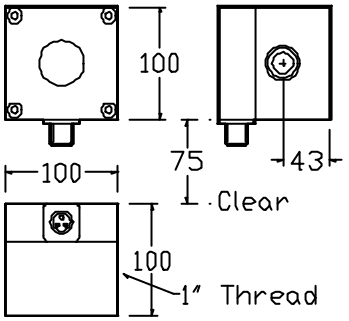




Sensor block diagram



316 St St body



Aluminium body

Model		Body material		Temp rating		Pressure rating		Seal material		Detector type		Pipe thread		Connections		Display mounting options	
OG5	OG5	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
				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 1" BSP thread would have the order code :-OG5-SS5-VHU-B

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