

Specification Sheet Oval gear flowmeter Specification Sheet

Flowcal
Unit 4
Ham Business Centre
Brighton Road
Shoreham-by-Sea
West Sussex
BN43 6RE

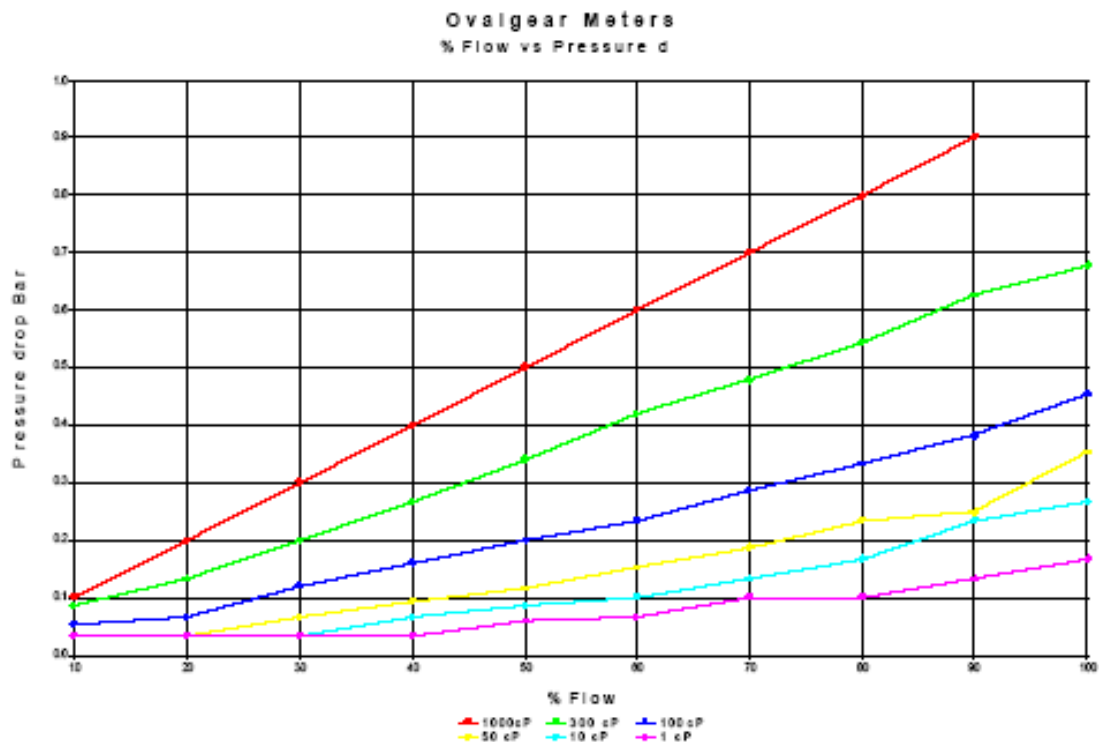


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The oval gear flowmeters work by using the very low differential pressure generated across the body to drive a pair of oval gears. This rotation can be detected by a variety of means, to give either a TTL or contact closure pulse output. The unit is manufactured in a choice of materials and pressure ratings to suit most applications and as with all positive displacement flowmeters, the performance improves with increasing viscosity achieving an accuracy of $\pm 0.5\%$ of reading.

- Positive displacement
- Temp to 200°C (70°C std.)
- Pressures up to 670 Bar
- Reed switch or Hall effect
- Viscosities -1 to 10,000 cP
- 0.25, 0.5 and 1% accuracies
- Low pressure loss
- Excellent chemical resistance
- 0.1% Repeatability
- Compact design
- Flows from 1mL/Min (150cP)
- Wide range ability
- Choice of materials
- Inherently linear
- Bi-directional
- Hazardous area versions
- Up to 500 L/Min

Model	L/Min max	Std. Fitting	Pulses/L	Accuracy	Std. Dimensions
OG1	1	¼" BSPF	2000	1%	40Lx40Wx40H
OG 2	4	¼" BSPF	1000	1%	40Lx40Wx40H
OG 3	10	½" BSPF	400	0.50%	70Lx50Wx60H
OG 4	50	¾" BSPF	100	0.50%	5Lx75Wx75H
OG 5	100	1" BSPF	72	0.50%	95 Dia x86 H
OG 6	250	1½" BSPF	30	0.50%	145 Dia x135 H
OG 7	500	2" BSPF	15	0.50%	200Lx145Wx195H



Maximum/Minimum flow rates are dependent on viscosity - for more information, contact our sales department.
The chart above is for standard configurations.

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Higher viscosities may be accommodated but the flow range must be reduced e.g. for a viscosity of 2000 cP the maximum flow would be restricted to 80% of the full flow and for 10000 - 40% of full flow.

Oval gear meters order codes and example, OG1-SS5-VHQ-B

Model No, Gear Size, Max Flow	Body Material	Temp Rating	Pressure Rating	Seal Material	Detector Type	Pipe Thread	Process Connections	Display Options
OG1 1l/min <i>0.26USGPM</i>	S =316 St St	S = 80°C (158°F)	5 =50 Bar (750 PSI)	V = Viton	H =Hall Effect	Q =1/4" (OG1&2 Standar d)	B =BSP F	C =Rate & Total on Meter
OG 2 4 l/min <i>1USGPM</i>	A =Alu miniu m	T =100° C 212°F	1 =10 Bar(15 0PSI)	N = Nitrile	R = Reed Switch	H =1/2" (OG3Sta ndard)	N =NPT F	E =Rate & Total ex on Meter
OG 3 10 l/min <i>2.6USGPM</i>	P = PEEK	U =150 °C 300°F	4 =400 Bar (5880 PSI)	E = EPDM		T =3/4" (OG4 Standar d)	F = Flanged (Specify)	U =Rate & Total plus4- 20 mA ex
OG 4 50l/min <i>13USGPM</i>			7 =670 Bar (10000 PSI)	K = Kalrez		U =1" (OG5 Standar d)		X =Rate & Total plus 4-20mA
OG 5 100l/min <i>26USGPM</i>						P =1 1/2" (OG6Sta ndard)		B =Metra - Batch on Meter
OG6 250l/min <i>65USGPM</i>						D =2" (OG7 Standar d)		R =Metra- Batch remote
OG 7 500l/min <i>135 USGPM</i>								

The above order code breakdown emphasizes the flexibility of our products. The previous chart shows our standard fittings for the various size meters but any meter can have any size or type of process connection. Simply compile the part numbers (Letters/numbers in bold) by selecting the desired specifications from the table above.

Our standard gear material is carbon filled PEEK, which is a high-grade engineering plastic with exceptional tri-biology characteristics, very good chemical resistance and excellent high temperature properties. Where the standard PEEK gear and magnet configuration is not acceptable we offer alternative gear materials with encapsulated magnets.

Note: Some OG1 & OG2 meters cannot have the instruments attached to them.

If you require any other information regarding this product, please don't hesitate to contact us.

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