



## Measurement & Control Technology Ltd

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# Oval gear flowmeters

For high accuracy use or with high viscosity fluids.

- \* Positive displacement
- \* Pressures up to 670 Bar
- \* Viscosities -1 to 10,000 cP
- \* Low pressure loss
- \* 0.1% Repeatability
- \* Flows from 1mL/Min (150cP)
- \* Wide rangability
- \* Inherently linear
- \* Hazardous area versions
- \* Temp to 200° C (80° C std.)
- \* Reed switch or Hall effect
- \* 0.25, 0.5 and 1% accuracies
- \* Excellent chemical resistance
- \* Compact design
- \* In house designed & manufactured
- \* Choice of materials
- \* Bi-directional
- \* Up to 500 L/Min

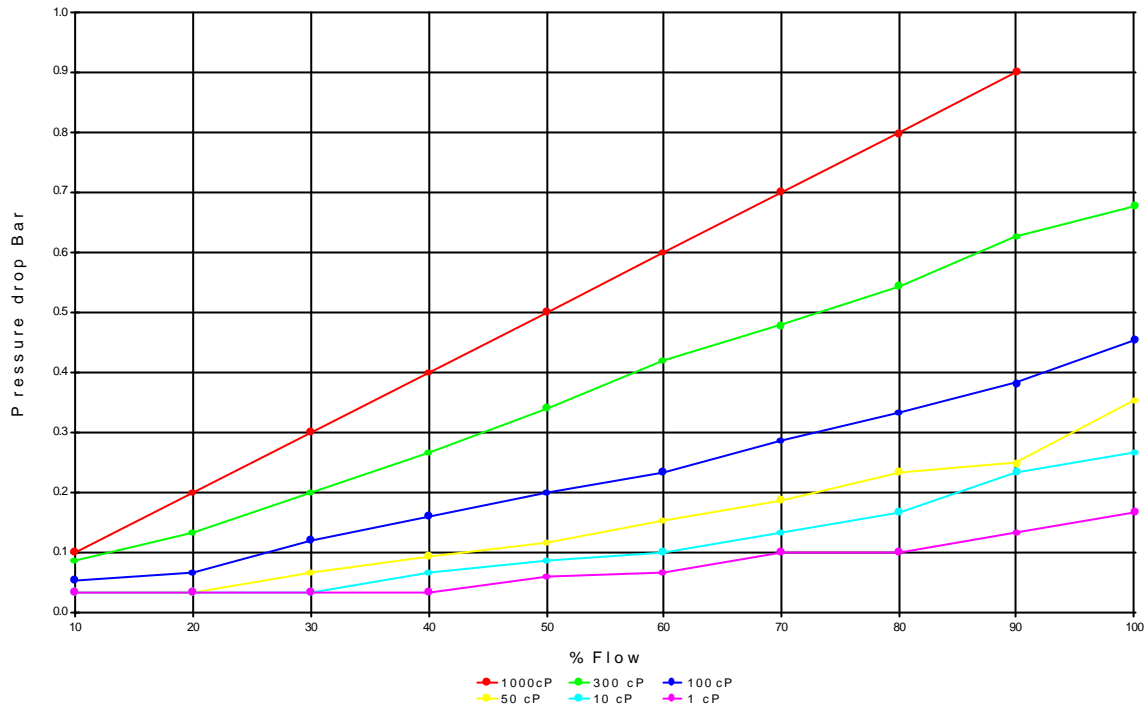


Model	L/Min max	Std. Fitting	Pulses/L	Accuracy
PD1050	1	¼" BSPF	2000	1%
PD1100	4	¼" BSPF	1000	1%
PD1200	10	½" BSPF	400	1%
PD1350	50	¾" BSPF	100	1%
PD1500	100	1" BSPF	72	0- 50%
PD1600	250	1½" BSPF	30	0- 50%
PD1700	500	2" BSPF	15	0- 50%

Maximum/Minimum flow rates are dependant on viscosity - for more information contact our sales office. The chart above is for standard configurations alternative end fittings and body sizes are available, we can even match your installation requirements i.e. manifold fittings or sized to replace a redundant flowmeter.

## Ovalgear Meters

% Flow vs Pressure d



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, 126-S-5HM-V-75

<u>Meter Range</u>	<u>Body Material</u>	<u>Temp</u>	<u>Pressure</u>	<u>Detector</u>	<u>Connector</u>	<u>Seal</u>	<u>Process Connections</u>
10=PD1050 11=PD1100 <b>12=PD1200</b> 13=PD1300 14=PD1400 15=PD1500 16=PD1600 17=PD1700	0=Special <b>6=316 St/St</b> 7=Aluminium 8=Brass 9=PEEK PEEK gears as standard	<b>S=80°C</b> T=100°C U=150°C V=200°C	<b>5=50 Bar</b> 1=100Bar 4=400Bar 7=700Bar	<b>H=Hall</b> R=Read O=Special	<b>M=MIL</b> P=4Pin M12 B=IP65 box C=Contrec Adaptor O=Special	<b>V=Viton</b> N=Nitrile E=EPDM K=Kalrez O=Special	25=1/4" BSPF <b>75=3/4" BSPF</b> 10=1" BSPF 12=1 1/4" BSPF 15=1 1/2" BSPF 20=2" BSPF F=Flange Please specify

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. For example a PD1050 running at 0.1 Litres per minute could have 2" 600Lb flanges. Our standard gear material is carbon filled PEEK, which is a high-grade engineering plastic with exceptional tribology 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.