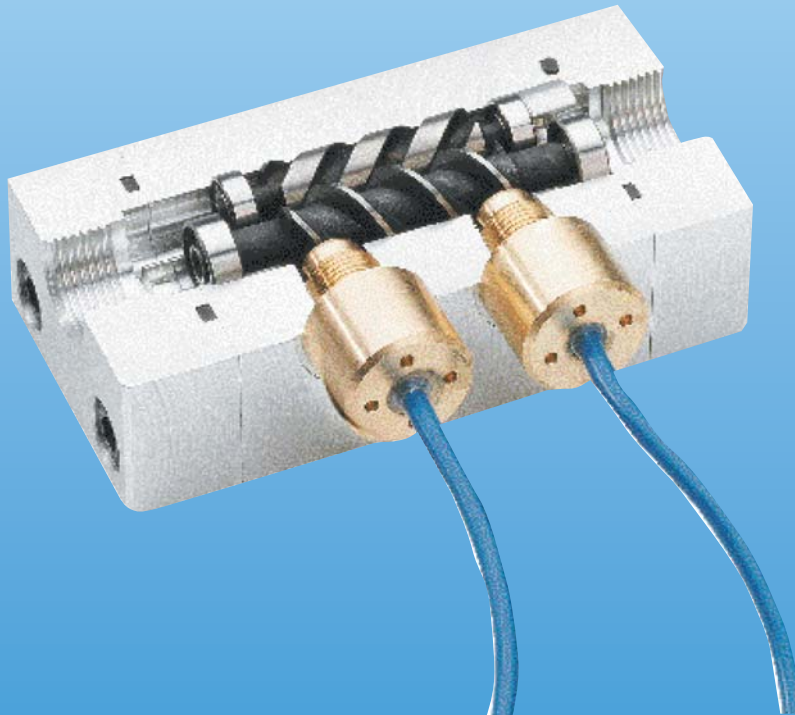


OME HELICAL-GEAR PD FLOWMETER



Flow
Pressure
Level
Temperature
measurement
monitoring
control



- **Economical**
- **High Precision: $\pm 0.3\%$ of Flow**
- **Advanced Helical-Gear Technology**
- **Quiet Operation**
- **Viscous Media to 5000 cSt**
- **Self-Cleaning**

S4



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Model:
OME

Kobold's new OME positive displacement flowmeter breaks through the price barrier for meters incorporating helical-gear technology. The OME provides the quiet, non-pulsating, low pressure-loss operation for which helical gears are renowned, at a price comparable to oval-gear technology.

The OME is designed to be used with non-abrasive, lubricating liquids whose viscosity lies in the range of 1–5000 cSt. The precision and reliability of the device is equivalent to our top-of-the-line OM helical-gear meters... no performance sacrifices have been made.

In a design diverging from conventional systems, the rotation of the OME's helical gears is detected by externally mounted proximity switches. This not only reduces the unit's price, but also makes a second sensor possible for little additional cost. This second (optional) sensor may be used for detection of flow direction or frequency multiplication. The standard sensor is amplified by a PNP collector circuit. An optional NAMUR output is available.

Specifications

Accuracy: ± 0.3% of flow rate
Fittings: NPT threads or ANSI flanges

Wetted Parts

Housing: Aluminum
Helical Gears: Nitrided Steel
Roller Bearings: Chrome Steel
Seals: Viton
Flanges: Carbon Steel

Maximum Operating Pressure

NPT: 580 PSIG
150 lb Flanges: 215 PSIG
300 lb Flanges: 560 PSIG
Max. ΔP: 75 PSIG
Temperature Range: – 20 to 212 °F

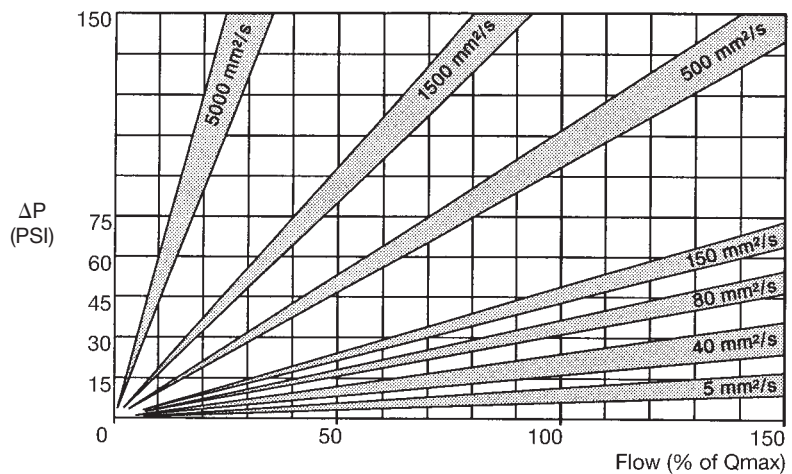
Electrical Data

Standard Sensor: PNP Output
Optional: Second Sensor & NAMUR Sensor

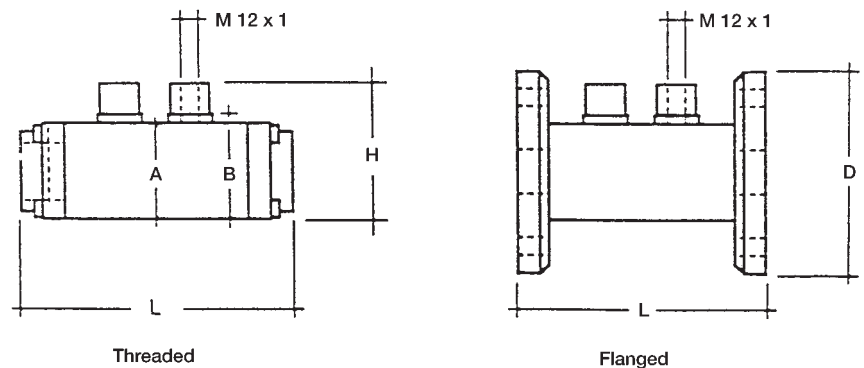
Power Requirements:

PNP: 10–30 VDC
NAMUR: 8.2 VDC
Protection: NEMA 4

Pressure Loss Diagram



OME Dimensions



Fittings	L	A (inches)	B	H	D (150 lb)	D (300 lb)
1/2"	4.13"	1.97×1.97	1.97"	2.60"	3.50"	3.75"
3/4"	5.51"	1.97×1.97	2.17"	2.83"	3.88"	4.62"
1"	7.68"	2.76×2.76	2.87"	3.54"	4.25"	4.88"

OME Ordering Information

Flow Range (GPM)	Fitting Size (inches)	Output Frequency (Hz)	Model Number			Options
			NPT Threads	ANSI Flanges		
				150 lb	300 lb	
0.05– 2.6	1/2	4.1–200	OME-5115	OME-6115	OME-7115	-Q: 2nd Sensor -N: NAMUR Sensor
0.16– 7.9	3/4	3.2–160	OME-5120	OME-6120	OME-7120	
0.53–26.4	1	2.6–130	OME-5125	OME-6125	OME-7125	