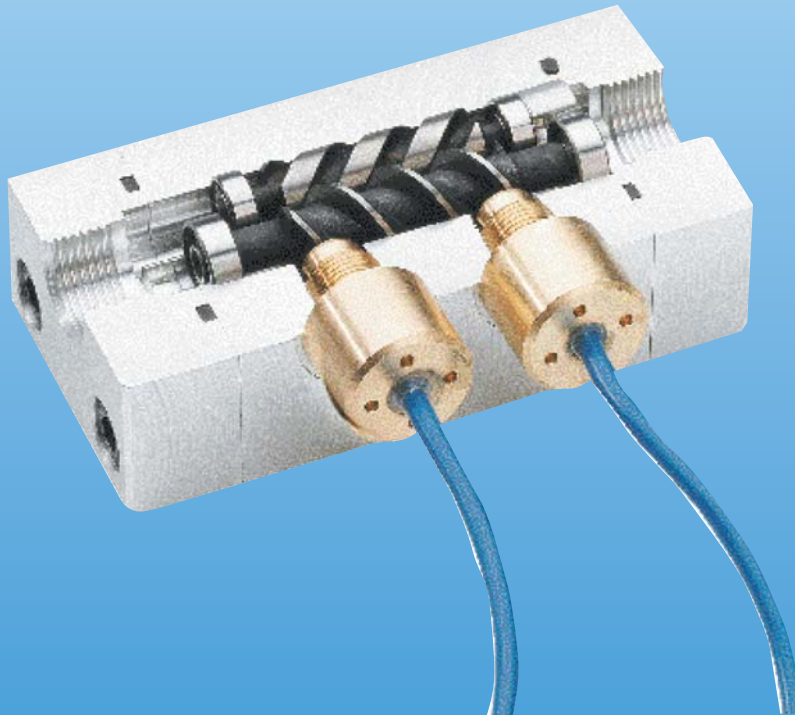


OME HELICAL-GEAR PD FLOWMETER



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

Contact:
Industrial Process Measurement, Inc.
3910 Park Avenue, Unit 7
Edison, NJ 08820
732-632-6400
support@instrumentation2000.com
<http://www.instrumentation2000.com>

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

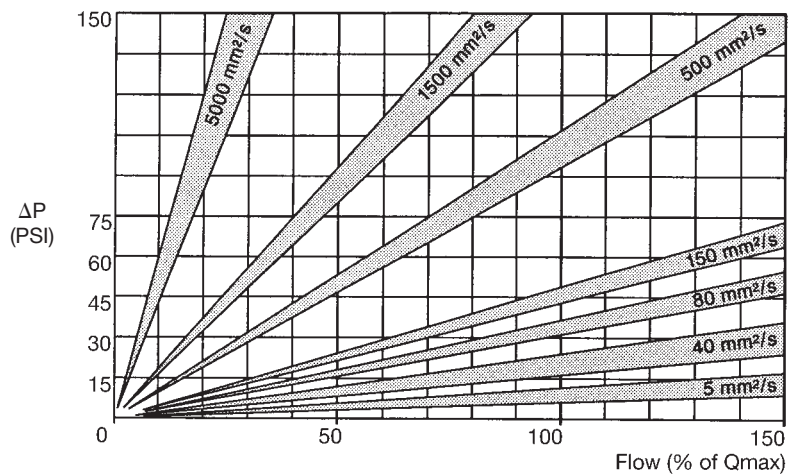
Electrical Data

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

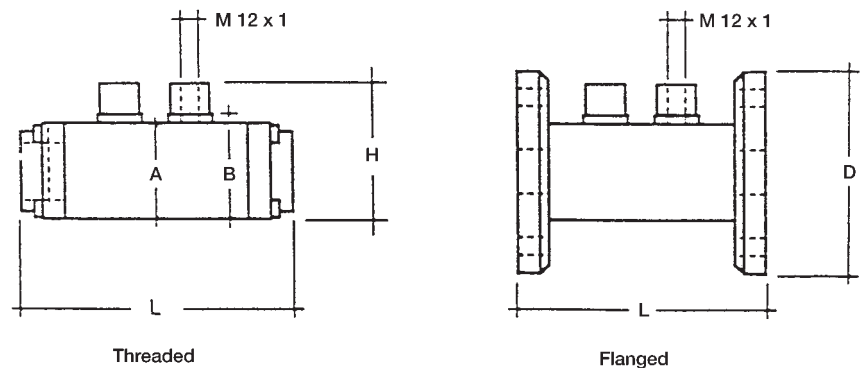
Power Requirements:

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 | |