

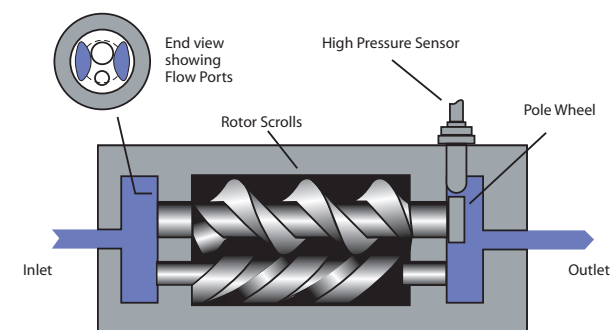
Helical Screw Flowmeters

Helical Screw Flowmeters

The Helical Screw Flowmeter has rotor scrolls which accept and release continuous flow. While the flow is being transported through the centre portion of the meter, it is trapped by the 'flights' of the scrolls, these form positive displacement 'pockets'. The meter inherently provides a high resolution pulse output from a many toothed polewheel on the end of one of the scrolls. The polewheel is sensed by the sensor and transmitter electronics which provides a square wave pulse. This pulse can be transmitted long distances and has good noise immunity.

Key advantages

- Wide range of applications
- High accuracy
- Robust design
- No flow conditioning required
- Bi-directional capability
- Easy installation
- Multiple port connections available








Display and output options

- Display of rate and total
- Analogue and scaled pulse outputs
- RS232, RS485, HART, Foundation Fieldbus and Modbus communication
- Flow alarms
- Batching control
- Temperature and Pressure compensation for fluids and gases
- Enclosures rated up to IP68 and others suitable for sub-sea applications
- Hazardous area approved for either Exi or Exd
- AC, DC or battery power supply options
- Linearisation
- Printers and printer outputs
- Ratio control
- Pipe, wall, head and panel mounting options



Kral High Accuracy Helical Screw Flowmeters

	Description	Accuracy Flow range	Fluids	Features		Description	Flow range	Fluids & Accuracy	Features
 <p>OME</p>	Aluminium bodied meter with 3 meter sizes from 1/2" to 1" suitable for pressures up to 40bar and temperature ranges from -20 to +100°C.	OME13 (1/2") 0.1 - 10l/min, OME20 (3/4") 0.3 - 30l/min, OME32 (1") 1 - 100l/min, ±0.1 to 0.3% linearity ±0.01% repeatability	Any non-abrasive chemically compatible slightly lubricating liquid with viscosities up to 1,000,000 cSt	Low cost Aluminium meter for general applications with low pressures and temperatures. All meters provided with female BSP threaded connections as standard. Flanged and alternative end connections also offered. Hazardous area approved units available on request.	 <p>OMK</p>	304 or 316 stainless steel bodied meter with PTFE spindles and 3 meter sizes from 1/2" to 1" suitable for pressures up to 40 bar and temperature ranges from -20 to +100°C.	OMK13 (1/2") 0.2 - 10l/min, OMK20 (3/4") 0.6 - 30l/min, OMK32 (1") 2 - 100l/min, ±0.5 to 1% linearity ±0.1% repeatability	Any non-abrasive chemically compatible slightly lubricating fluid with viscosities up to 1,000,000 cSt	Designed for corrosive applications. All meters provided with female BSP threaded connections as standard. Flanged and alternative end connections also offered. Hazardous area approved units available on request.
 <p>OMG</p>	Grey cast iron bodied meter with 7 meter sizes from 1/2" to 6" suitable for pressures from 40 to 250bar and temperature ranges from -20 to +250°C. Standard sensor + 80°C.	OMG13 (1/2") 0.1 - 10l/min, OMG20 (3/4") 0.3 - 30l/min, OMG32 (1") 1 - 100l/min, OMG52 (1 1/2") 3.5 - 350l/min, OMG68 (2") 7 - 700l/min, OMG100 (4") 20 - 2000l/min, OMG140 (6") 50 - 7500l/min, ±0.1 to 0.3% linearity ±0.01% repeatability	Any non-abrasive chemically compatible slightly lubricating liquid with viscosities up to 1,000,000 cSt	Designed for use with medium pressure and high temperature. All meters provided with female BSP threaded connections as standard. Flanged and alternative end connections also offered. Hazardous area approved units available on request.	 <p>OMX</p>	Stainless steel bodied meter with nitride steel spindles specially designed for pressures of 690 bar.	OMX13 (1/2") 0.1 - 10l/min, OMX20 (3/4") 0.3 - 30l/min, OMX32 (1") 1 - 100l/min, OMX52 (1 1/2") 3.5 - 350l/min, OMX68 (2") 7 - 700l/min, OMX100 (4") 20 - 2000l/min, ±0.1 to 0.3% linearity ±0.01% repeatability	Any non-abrasive chemically compatible slightly lubricating fluid with viscosities up to 1,000,000 cSt	Designed for ultra high pressure applications. All meters are application specific and end connections can be configured to suit. Flanged, autoclave high pressure and alternative end connections also offered. Hazardous area approved units available on request.
 <p>OMH</p>	Spheroidal graphite cast iron bodied meter with 6 meter sizes from 1/2" to 4" suitable for pressures up to 420 bar and temperature ranges from -20 to +250°C.	OMH13 (1/2") 0.1 - 10l/min, OMH20 (3/4") 0.3 - 30l/min, OMH32 (1") 1 - 100l/min, OMH52 (1 1/2") 3.5 - 350l/min, OMH68 (2") 7 - 700l/min, OMH100 (4") 20 - 2000l/min, ±0.1 to 0.3% linearity ±0.01% repeatability	Any non-abrasive chemically compatible slightly lubricating fluid with viscosities up to 1,000,000 cSt	Designed for very high pressure. All meters provided with female BSP threaded connections as standard. SAE flanged and alternative end connections also offered. Hazardous area approved units available on request.	<div style="border: 1px solid black; padding: 5px;"> <p>Output Options The meter provides an unscaled pulse output. Signal conditioners, flow indicators and batching instruments are also available from Litre Meter for use with these meters. Scaled output and 4-20mA option head mounted. (Excluding OME)</p> </div>				

These products conform to PED and EMC and optionally to ATEX/UL