



Badger Meter Europa

## Line Meter LM OG-HFT

### Line meter with pulse transmitter

#### General description

The model LM OGT-HF High Flow meter is designed to handle flow rates up to 115 l/m. The meter is designed specifically to dispense motor oils (S.A.E. 5-50), gear oils (S.A.E. 80-240), automatic transmission fluid, antifreeze (Ethylene Glycol), and engine coolant. Modular design, compact foot print, and rugged design make the LM OGT-HF the best choice for automated dispensing systems.

The transmitter mounted on the meter can be wired to batch controllers, remote counters and other electronically operated instruments that can accept pulses from a reed switch, and have scaling capabilities. The oval gear transmitter is contained in a plastic housing.



#### Applications

This transmitter is normally connected to metering systems that have scaling capabilities and that can accept a reed switch pulse. Typical applications are automated motor oil batching systems, antifreeze dispensing systems and other applications that require totalizing meter flow and monitoring rate of fluid flow passing through the meter.

#### Operation

As fluid passes through the metering chamber by entering the inlet port, the internal gears rotate forcing the fluid to exit through the outlet port. Each rotation of the gear displaces a given volume of fluid. Controlled clearances between the gears and chamber wall insure minimum leakage. As the gears rotate, a magnet on each end of the gear causes the reed switch to open and close. Contact closures from the switch are transmitted to a remote batch controller or counter.

#### **CAUTION**

The use of meters in applications other than those described in this material may result in inaccuracy and possible meter failure. This meter is designed for petroleum-based products. It is also important that fluids be properly filtered before entering the meter. Foreign particles will cause inaccuracy as well as possible malfunction of the meter. Warranties are void in the circumstances described above.

#### Features

- 1" and ¾" threads BSP
- Compact foot print
- Oval gear driven meter
- Does not require external power
- Rugged, corrosion resistant plastic enclosure
- Humidity and moisture resistant transmitter
- Hermetically sealed reed switch output
- Compatible with most flow controllers and counters with scaling capabilities
- Accuracy to  $\pm 0.75\%$

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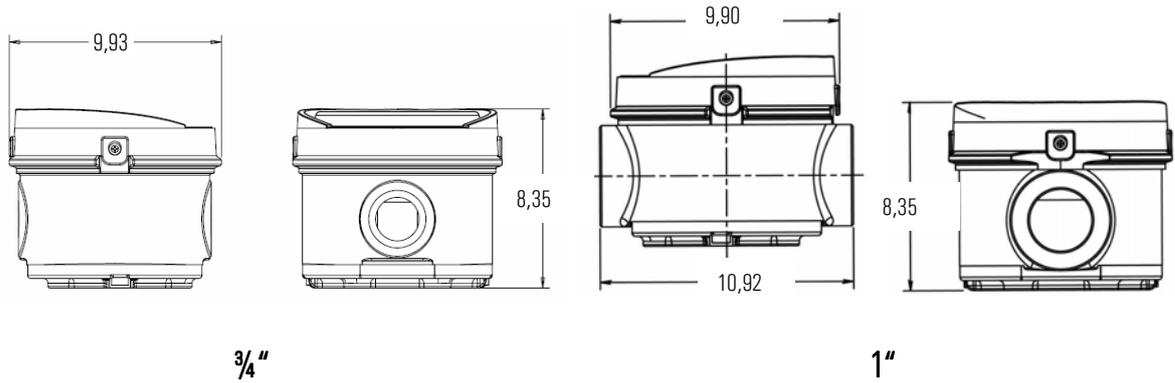
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## Dimensions in cm

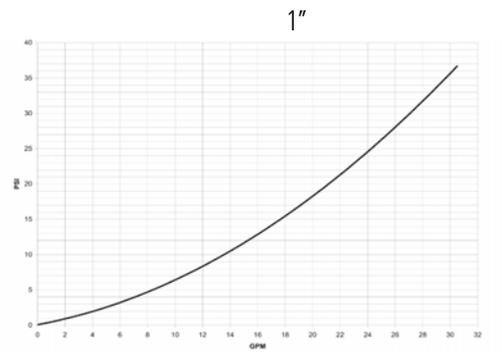
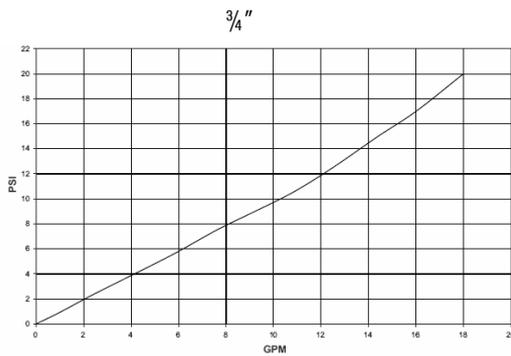


## Specifications

	LM OG-HFT	
	3/4"	1"
Maximum flow *	60 l/min	115 l/min
Minimum flow *	3 l/min	3 l/min
Operating pressure (maximum)	100 bar	100 bar
Operating pressure (minimum)	0,35 bar	0,35 bar
Operating temperature (maximum)	+ 60° C	+ 60° C
Operating temperature (minimum)	-30° F	-20° C
Accuracy	+/- 0.5%	+/-0.5%
Weight	0.82 kg	0.82 kg
Inlet & outlet connections	3/4" BSPP	1" BSPP

\* Tested with Mobil DTE-25 motor oil at ambient temperature. Min./Max. flow rates will vary with fluid viscosity.

### Pressure drop High flow oval gear meter



### Pulse transmitter

Reed switch  $5 \times 10^8$  switch closures, depending on load.  
Switch load 10 W, 120 VAC.  
100 p/l one channel

Please ensure that the fluid is properly filtered before entering meter. Foreign particles will cause inaccuracy as well as malfunction of meter.