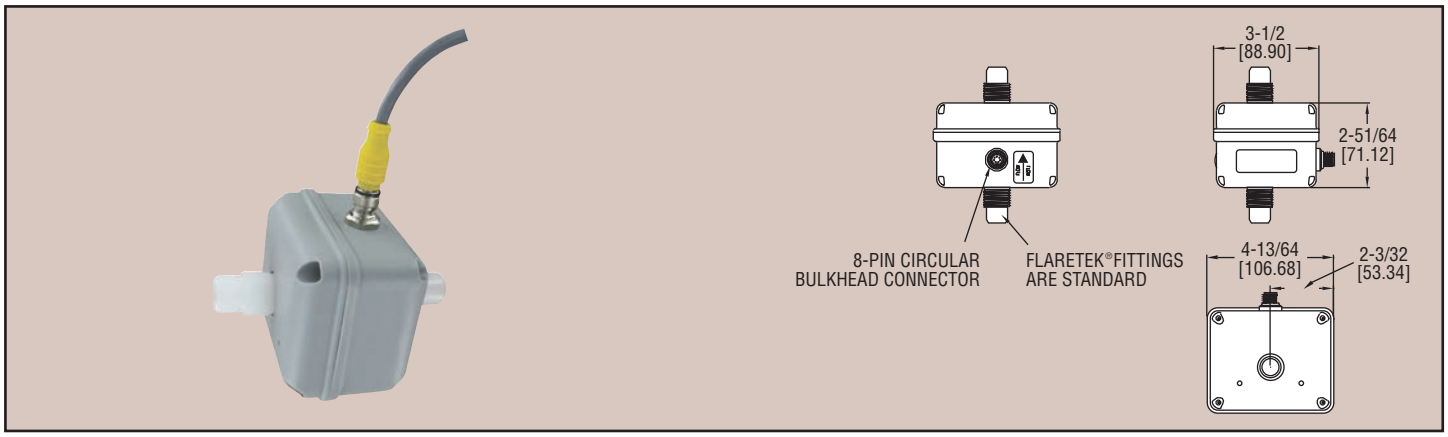
Series LOFM

Low-Flow Electromagnetic Flow Sensor

HDPE Plastic Body, Pulse, Frequency and Analog Output



The Series LOFM Low-Flow Magmeter is a liquid electromagnetic flow sensor that uses the conductivity of fluids to measure flow. Liquid flow through its magnetic field produces a voltage which is measured and translated into a pulse output signal. The LOFM can be combined with the Series RTI for flow rate and total display. This meter comes with a variety of factory-installed adapters and O-rings. The LOFM comes in either 3/4″ or 3/8″ pipe.

The Series LOFM can accurately measure flow rates as low as 0.03 gallons per minute. The meter is housed in a splash proof HDPE plastic, making it good for chemical injection applications. With no metal parts, the LOFM is corrosion-resistant and compatible with a wide range of chemicals. With no moving parts, the meter can handle dirty water applications where moving parts might cause jamming or clogging. The LOFM comes standard with Flaretek® fittings, but NPT adapters are available.

FEATURES

- Low cut off flow rate
- No metal parts
- No moving parts
- No straight pipe requirements

SPECIFICATIONS

Service: Compatible clean or dirty non-coating, conductive liquids.
Range: LOFM-1: 0.2 to 20 GPM (0.01 to 1.3 l/s); LOFM-2: 0.03 to 3 GPM (0.002 to 0.2 l/s).
Wetted Materials:
Body: PVDF; Electrodes: PVDF carbon-fiber filled; Ground: PVDF carbon-fiber filled; Fittings: PVDF; Adapters: PVC or PVDF; O-rings: EPDM or Fluoroelastomer (for NPT fitting only).
Accuracy:
LOFM-1: +1% of reading, +0.005 GPM; LOFM-2: +1% of reading, +0.002 GPM.
Temperature Limits: Process: 32 to 200°F (0 to 93°C); Ambient: 0 to 130°F (-18 to 54°C).
Pressure Limit: 150 psi (10.3 bar).
Process Connections: Flaretek® fittings standard in 3/4″ or 3/8″ flowbody (NPT threaded adapters also available).
Output: Current sinking, square wave pulse, opto-isolated, 30 VDC @ 5 mA max. and 4 to 20 mA;
LOFM-1: 1892 pulses/gal (500 pulses/L);
LOFM-2: 3785 pulses/gal (1000 pulses/L).
Power Requirements: 10 to 15 VDC, 150 mA (linear power supply recommended).
Conductivity: > 20 microSiemens.
Enclosure Material: HDPE with glass fiber.
Enclosure Rating: NEMA 4X (IP66).
Weight: 2.20 lb (1.00 kg).

Example	LOFM	1	44C	1E	1TN	1FT	LOFM-1-44C-1E-1TN-1FT
Construction	LOFM						Low-Flow Magmeter (Comes standard with FlareTek® fittings, NPT adapters available)
Size		1					3/4″
		2					3/8″
NPT Adapters (Optional Replace FlareTek® Fittings)			44C				3/4″ PVC NPT Adapter (LOFM-1 only)*
			44F				3/4″ PVDF NPT Adapter (LOFM-1 only)*
			42C				1/2″ PVC NPT Adapter (LOFM-1 only)*
			42F				1/2″ PVDF NPT Adapter (LOFM-1 only)*
			88C				3/8″ PVC NPT Adapter (LOFM-2 only)*
			88F				3/8″ PVDF NPT Adapter (LOFM-2 only)*
			84C				1/4″ PVC NPT Adapter (LOFM-2 only)*
			84F				1/4" PVDF NPT Adapter (LOFM-2 only)*
			000				No MNPT Adapter
O-Ring (Only required with NPT adapters)				1E			3/4″ EPDM (LOFM-1 only)*
				1F			3/4″ Fluoroelastomer (LOFM-1 only)*
				2E			3/8″ EPDM (LOFM-2 only)*
				2F			3/8″ Fluoroelastomer (LOFM-2 only)*
				00			No O-ring
FlareTek® Tubing Nut (Only required with FlareTek® fittings)					1TN		3/4″ FlareTek® Tubing Nut (LOFM-1 only)
					2TN		3/8″ FlareTek® Tubing Nut (LOFM-2 only)
					000		No FlareTex® Tubing Nut
Flare Tool (Only required with FlareTek® fittings)						1FT	FlareTek®, Flare Tool, 3/8″ Fitting (LOFM-1 only)
						2FT	FlareTek®, Flare Tool, 3/8″ Fitting (LOFM-2 only)
						000	No FlareTek®, Flare Tool

*The prices for the NPT adapters and O-rings are for the two required.

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