



**LF-F**

**FUEL FLOW METER**



# LF - F

## FUEL FLOW METER

The LF-F positive displacement oval gear flow meters are similar in design to the gear pump. The principle of operation is reversed; instead of the gears driving the medium, the medium drives the gears. A non-intrusive magnetic pickup or hall-effect sensor detects the movement of the gear and as each gear tooth passes the sensor a square wave pulse is produced and a discrete volume of liquid is measured. The resulting pulse train is proportional to the actual flow rate and provides a highly accurate representation of the fluid flow. All meters are designed with highly wear resistant moving parts to provide exceptionally long service life.

### Features

- High accuracy
- Max Pressure: up to 25 MPa for SS Body
- Wide Range of Viscosity
- Display Available in DC and AC Power Supply Options
- High resolution of display
- Suitable For Low Flow Rates

### Technical Details

Enclosure :Aluminium anodize / SS 304 / SS 316

Rotor :Aluminium anodize / SS 316 / PPS

O-ring : NBR / Viton

Shaft : Hard Stainles Steel-316

Accuracy (standard installation position) : + 1% RS //0.25% FSD

Maximum working pressure 10Mpa (35~85% RH)

Fluid & Ambient temperature :- 40 to 80°C

Power voltage : -5/24 V DC

Output :

High electric level : Less than 4.5 VDC (input voltage 5 VDC)

Low electric level : Higher THAN 0.5 vdc (INPUT VOLTAGE 5 VDC)

Connection : Thread (M/F) or Flange

## Selection Guide :

MODEL & SIZE	CONNECTION SIZE	FLOW RANGE	1/K-FACTOR ( L/P)
LF-F-004	1/4" Thread	0.2 ~ 60 L/H	0.000416 L/P
LF-F-006	1/4" Thread	5~150 L/H	0.000661 L/P
LF-F-008	3/8" Thread	20~300 L/H	0.0025 L/P
LF-F-010	1/2" Thread	50~800 L/H	0.0025 L/P
LF-F-015	1/2" Thread	80~1,500 L/H	0.0085 L/P
LF-F-020	3/4" Thread	150~2,000 L/H	0.0154 L/P
LF-F-025	1" Thread	200~4,000 L/H	0.0256 L/P
LF-F-040	1.5" Thread	500~10,000 L/H	0.086 L/P
LF-F-050	2" Thread	600~20,000 L/H	0.19 L/P
LF-F-080	3" Thread	1,000~50,000 L/H	0.54 L/P
LF-F-100	4" Thread	2,000~100,000 L/H	1.0 L/P

## Wiring Connection :



## Calibration Details :

- Pulse/litre written on each sensor body
- Calibrated with pure diesel.
- Each Sensor Calibrated at three different pressures 0.5 bar, 4 bar, and 25 bar.
- All pressure calculate pulse/litter at : 25%, 50%, 75% and 100% flow range

## CONTACT US



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