



DIESEL FLOW METER DIGITAL



LF-DF-D

**Level & Flow Industrial
Automation (OPC) Pvt. Ltd.**

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DESCRIPTION

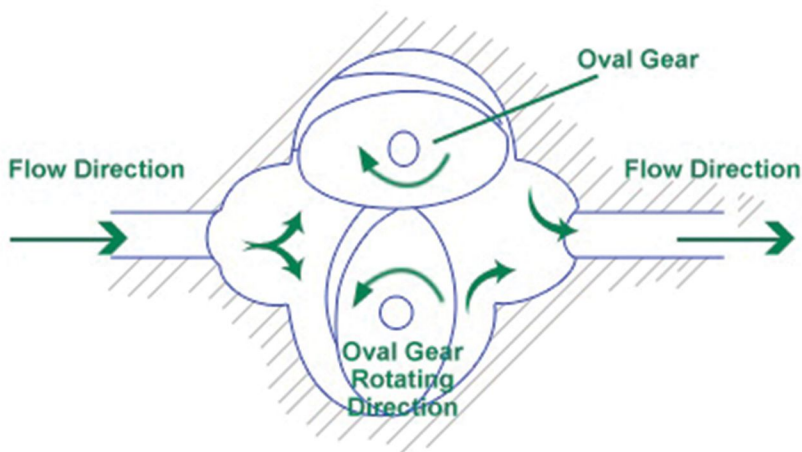
The digital over gear flow meters are used for flow measurement of low, medium viscosity fluids such as diesel, fuel, lubricant oil and other special fluids compatible with the construction material. Electronic card with microprocessor enables accurate LCD display and working calibration of the flow meter.

Oval gear flow meters are a type of positive displacement meter. As liquid flows through the meter, a pair of oval shaped gears is forced to rotate by the flow of the liquid. These gears mesh together & force a finite amount of liquid through the meter. A sensor or mechanical drive detects the rotation of the gears to determine the displaced volume of liquid. The faster the flow rate, the faster the gear turns.

PRINCIPLE OF OPERATION

The Oval gear flow meter comprises oval – shaped, geared rotors which rotate within a housing of specified geometry. Fluid differential pressure causes the inter-meshing gears to rotate, trapping a 'pocket' of fluid between the gear and the outer housing and subsequently emptying the fluid pocket into the downstream flow. Capillary action of the metered fluid forms a liquid seal.

Each pocket holds a precise and known volume of fluid so counting the pocket frequency gives a measurement of the volumetric flow rate. This is typically achieved by embedding magnets in the rotors, which then actuate a reed switch or provide a pulse output as they rotate and thus flow is measured electronically.



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Features: Easy maintenance, low pressure drop
 Application: Diesel, Oil, Fuel, etc.

TECHNICAL SPECIFICATION

Model	LF-DF-D-25	LF-DF-D-40	LF-DF-D-50
Line Size	25mm	40mm	50mm
Min. Flowrate	12L/m	25L/m	30L/m
Max. Flowrate	120L/m	250L/m	300L/m
Body MOC	Aluminium	Aluminium	Aluminium
Accuracy	+0.5%	+0.5%	+0.5%
Max. Viscosity	1000 CPS	1000 CPS	1000 CPS
Max. Pressure	3.4 Mpa	1.8 Mpa	1.8 Mpa
Display	LCD, with push button reset		
Supply	Batter Operated		
Connection	Threaded		
Optional	Remote Display		

MODEL SELECTION



* (All models may differ in looks & all specification may not be part of every version)
 * (Specification may vary as per different model selected. Some feature may not be there in model selected.)