

Model No : BI-04-TFI

DIESEL Consumption meter for Power Car DA sets:

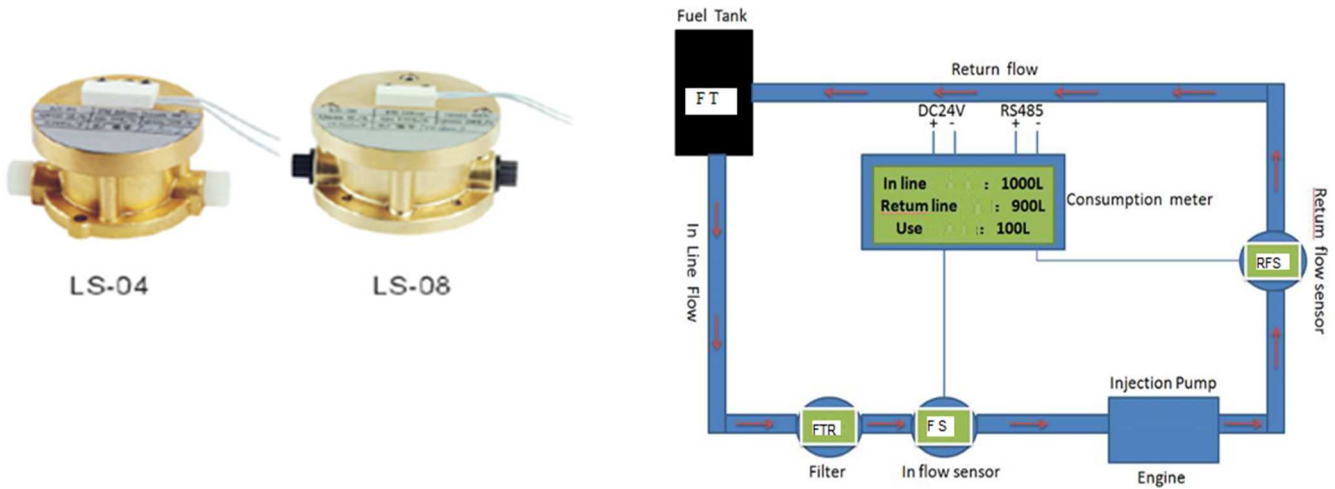


IMAGE : 1



IMAGE : 2

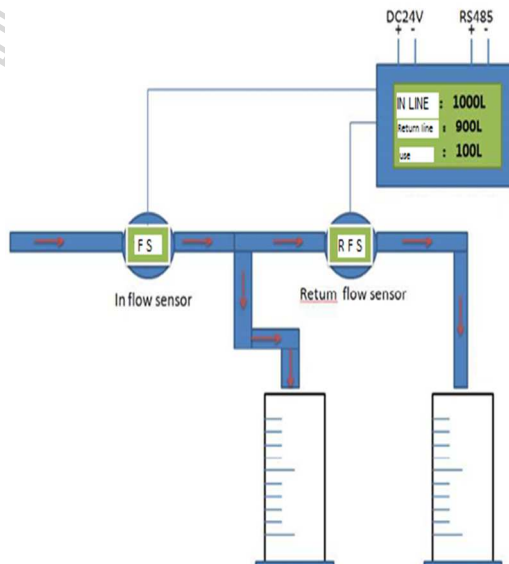
We design this package (with separate flow sensor for both line) for measurement of Diesel supply to Engine from Tank & return Diesel from engine and Total consume diesel after deducting return diesel.

We use in this package as follows.

- (1) Flow meter for engine Range : 4-255 LPH inbuilt filter
- (2) Flow meter in return line Range : 4-130 LPH, inbuilt filter
- (3) Display Indicator as per image 2.

Optional : Tank in built with vent valve/air relief valve and level switch for closing Vent Opening in case of tank full.

- (4) Supply to indicator : 24 V DC

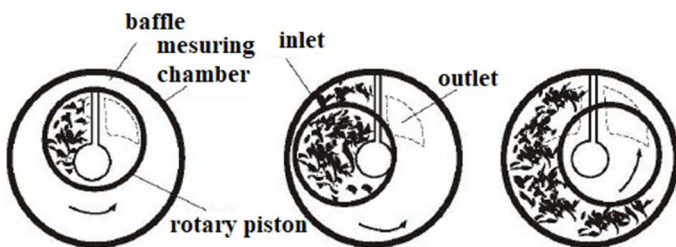


Overview:-

LS-04/08 series flow meter is a new type of rotary Piston flow meter which is successfully invented by BIMCO For the first time. With the domestic advanced techniques, Low limit of flow rate, wide range, high precision, simple Structure, reliable operation and the lower price compared With the same volumetric flow meter, it can be installed in Trains, tractors, generator sets, inland or offshore sailing Ship directly to measure the fuel consumption of all kinds Of machines, the loading and unloading of a variety of Heavy liquid, the liquid through pipelines. It is the best Instrument of the liquid material assessment to conduct the depth of the energy-saving work, and also the ideal application to transportation vehicle in a wide range, which is popular by the energy measurement sector, research sector, transport sector, shipbuilding Manufacturer and fluid manufacturers.



Working principle:



Flow meter is made up of the part of the case and piston Institutions, etc. Counting structure is completely Isolated from the oil and is motivated by the magnetic Drive. When the instrument is connected to the Pipeline and fuel flows through it, the pressure Difference of import and export sides will drive the Piston to do rotary motion. At the same time, the Magnetic coupler which is connected with the piston Will also rotate. Because the piston rotation is Proportional to the amount of oil flow through the Meter, the piston rpm recorded by the counting structure Is the multiple of fuel flow through the meter.

Model flow range:

Model Specification	Flow Rate Range L/h			
	Maximum	Regular	minimum	Start
LS-04 LS-04LCD	100	50	2	1
LS-08 LS-08LCD	200	100	8	4

Other Index:

Show value error	Between Maximum flow rate and minimum flow rate: $\pm 1\%$. Other flow segments are counted as usual but with no accuracy.
Nominal Pressure	16Bar
Operating temperature	-30~+65°C
Medium	gasoline, diesel, kerosene and non-corrosive light liquid with similar viscosity
Fuel oil filter	filter (buyer can purchase one from us or solve it by himself)
Impurities in the fuel particle size	$\leq 0.02\text{mm}$
External magnetic field	$H \leq 5\text{A/M}$
Way of Connection	LS-04's entity is G1/8 " with internal thread LS-08's entity is G1/4 " with internal thread (factory's standard configuration is 1/2 " with external thread connected to filter connector)
signal of the output	Reed switch Passive contacts signal LS-04: 5 mL/P LS-08: 12.5mL/P
Weight	LS-04 : 0.5K g, LS-04LCD: 0.6Kg LS-08: 0.8K g, LS-08LCD: 0.9Kg

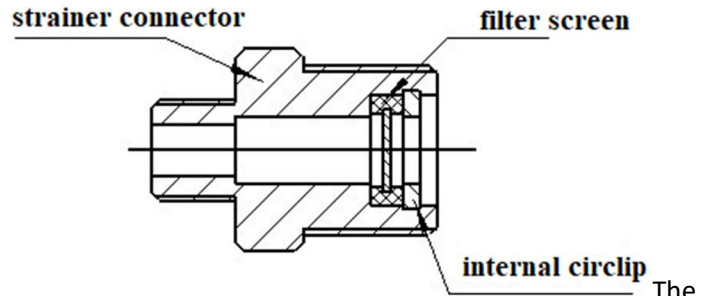
Contour Dimension (mm):

Size Model	Length	Width	Height	connection type of Flow meter
LS-04	60	60	40	G1/8 " internal thread connection
LS-04LCD	60	60	100	G1/8 " internal thread connection
LS-08	73	73	45	G1/4 " internal thread connection
LS-08LCD	73	73	100	G1/4 " internal thread connection

factory's standard configuration is 1/2 " external Pipe thread which can connect to the filter connector. If there are too much Oil impurities, the flow meter Must be added with the standard fine filter.

Strainer Connector:

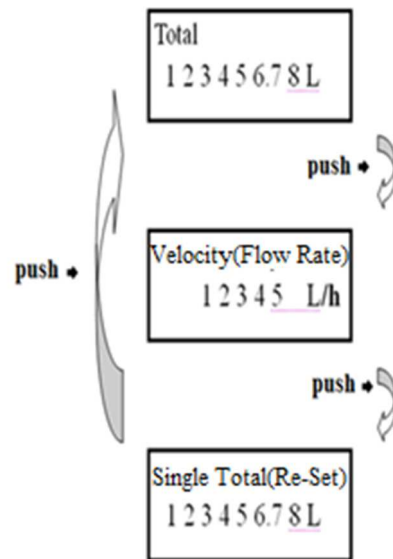
There is a stainless steel filter net inside the filter Connector to prevent oil impurity from entering in The flow meter's cavity and block it. The filter net is Fixed with Circlips for holes-type, for easy cleaning And disassembly.



* Need to regularly clean the filter net according to the oil situation.

Show Table head instructions:

- LCD table head can display Three interfaces: Cumulative flow interface, Instantaneous flow Interface and Single flow Interface. Press "➡" key And we can switch three Interfaces over. Figure:



- Any key operation will allow the backlight lit. If you press it and do not operate within 10 second, it will go out automatically.
- The battery reminder function: It flashes when the battery is low and should be replaced.
- Continuous battery use time can last for more than 2 years. Standby time can last for more than six years.

**Manufactured & Marketed By :
M/S. Bombay Instrument Mfg. Co.**

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