

Mechanical Oil Meter OM-10

Congratulations on purchase of this World Class Mechanical Oil Meter!

- Designed specifically to dispense lubricating oil, diesel, biodiesel and other liquids, compatible with the component materials.
- High Pressure, positive displacement-type meter suitable for in-line and end-of-line applications.
- Features a rugged and robust register with 6 digit nonresettable totalizer and 3+1 digit re-settable total.
- · Oval gears for optimum accuracy.
- Robust aluminium Die cast construction with protective Rubber Shroud.



SPECIFICATIONS

Meter Type	Mechanical
Mechanism	Oval Gear
Inlet / Outlet Position	In-Line In-Line
Inlet / Outlet	1/2" BSP (F) or 1/2" NPT (F)
Flow Rate	1 to 30 LPM (0.3 to 8 GPM)
Accuracy	+/- 1%
Repeatability	+/- 0.20%
Max. Working Pressure	1000 PSI (70 BAR)
Burst Pressure	3000 PSI (210 BAR)
Pressure Loss	10 PSI (0.7 BAR)
Working Temperature range	-10°C to 60°C (14°F to 140°F)
Max. Resettable Batch Total	999.9 Litres or Quarts
Max. Non Resettable Totalizer	9,99,999 Litres or Quarts
Least Count / Resolution	0.10 Litres or Quarts
Filter/ Screen Included	No
Max. Viscosity of Media	2000 cST
Option to Recalibrate by User	No

Nr. Of positions in which display can be rotated	0
Protective Shroud on Meter	Yes
Weights & Measures Approved	No
Calibration Certificate Included	No
Water Resistance	IP55

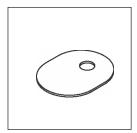
INSTALLATION & USE

The OM10 can be installed in any position, with flexible and rigid piping as well as directly on pumps and tanks. The flow meter has one preset flow direction.

Once installed, OM10 is ready for use. Press the Reset button until the batch total returns to Zero. Totalizer cannot be reset in any way.



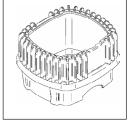
If solid particles get into the measuring chamber, they could prevent the correct operation of the oval gears. Therefore, make provision to filter the fluid by installing a filter before the flow meter (recommended filter: 400 μ)







(Fig.5) Oval Gear



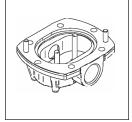
(Fig. 1) Protective Shroud



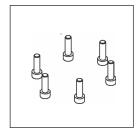
(Fig. 2) Register Assembly



(Fig. 3) Gasket



(Fig. 6) Lid



(Fig.7) Bolts

PART LIST FOR OM 10

REFERENCE NUMBER	DESCRIPTION	QUANTITY
1	Protective Shroud	1
2	Register Assembly	1
3	Gasket	1
4	Oval Disk	1
5	Oval Gear	2
6	Lid	1
7	Bolts	6

WETTED COMPONENTS

Aluminium, Stainless Steel, Nitrile Rubber & POM

RECOMMENDED USE

Oils with viscosity upto 2000 cST, Diesel, Biodiesel

DO NOT USE WITH

Water based media, Gasoline etc.

MAINTENANCE

The OM 10 When used correctly, does not require any special maintenance. Inadequate filtration before the meter can lead to wear and clogging of the mesurement chamber which should be cleaned as mentioned in the section below

CLEANING OF THE MEASURING CHAMBER



Before disassembling, make sure that all the liquid has been removed from the flow meter and the pipes connected to it.

Do not attempt to adjust the totals. The disassembly is only for cleaning the chamber and inspection of parts.

NOTE

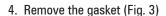
The measuring chamber can be accessed without having to remove the meter from the piping.

Use a soft brush for cleaning

1. Remove the protective Shroud (Fig. 1)

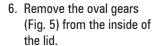


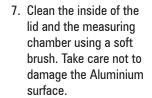
- 2. Remove the 6 X socket head bolts (Fig. 7) from the underside of the meter. Loosen the bolts in a diagonal sequence as shown, using an allen key (size 5).
- 3. Remove the underside lid (Fig. 6) from the body.





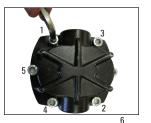
Use the pointed tip of a tool to remove the oval disk (Fig. 4)





8 Reassemble the parts by following steps 1-5 in the reverse order, taking particular

care to



- Tighten the bolts in a diagnoal pattern correctly.

lubricated them.

Install the gasket correctly after having checked and

- Ensure that, the oval gears are aligned at 90° to each other and turning smoothly.
- Check that the gears on the lid correspond with that in the chamber outlet.
- Ensure that the outlet gear is on right side when the inlet of the meter is facing down.











Lid



Measuring Chamber



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