

Mechanical Oil Control Gun

OM10-OGY

Congratulations on purchase of this World Class Mechanical Oil Control Gun!



- High accuracy light weight gun for controlling fluid deliveries in most demanding applications.
- Oval gear mechanism for optimum accuracy
- High reliability Mechanical display
- Aluminium die cast meter body with protective rubber shroud
- Gun with impact & weather resistant nylon construction
- Built-in safety cum continuous flow lever for un-attended dispensing; or alternatively under the trigger to lock & prevent accidental dispensing
- Built in swivel at inlet for easy maneuverability
- Available in litre / quarts version
- Extensions are available in one of three configurations :-
 - (1) Rigid steel extension with non drip nozzle (manual or automatic),
 - (2) Flexible hose with non drip nozzle (manual or automatic),
 - (3) Flexible hose with a bend pipe and a manual non drip nozzle

SPECIFICATIONS

Meter Type	Mechanical
Mechanism	Oval Gear
Inlet Swivel	½" BSPT (F) or ½" NPT (F)
Flow Rate	1 to 30 LPM (0.3 to 8 GPM)
Accuracy	+/- 1%
Repeatability	+/- 0.20%
Max. Working Pressure	870 PSI (60 BAR)
Outside Dia. of Steel Spout / Inside Dia. of Hose Extension	½" (12.7 mm)
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
Protective Shroud on Meter	Yes
Weights & Measures Approved	No
Calibration Certificate Included	No
Water Resistance	IP55

INSTALLATION & USE



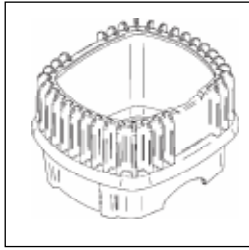
- If solid particles get into the measuring chamber of the Mechanical Flow Meter, they could prevent the correct operation of the oval gears. Therefore, make provision to filter the fluid by installing a filter before the Oil control gun. (Recommended filter: 400 µ)
 - Control gun must be handled with care & not dropped or thrown. Latch lever, meter & other parts are sensitive & prone to breakage if not handled well
1. Ensure that the Pump which is to be connected to the gun, is in switched off mode .
 2. Connect one end of the Pump outlet hose to the pump . On the free end, use a thread sealant & connect it to the Inlet Swivel on the gun body. Hand tighten for a leak-proof connection. DO NOT over tighten. For best results, use a hose with ½" inner dia.
 3. With the nozzle facing an empty container, switch on air supply to the pump.
 4. Pump motor will start operating & then stop once primed.
 5. Operate the nozzle by pressing the Trigger. Simple press of the Trigger will switch on the pump & simultaneously start dispensing.

6. Latch Lever fitted to the body maybe slid over the Trigger for continuous un-attended dispensing, although extreme care should be taken when doing so as this may result in over-flow.
7. Latch Lever may alternatively be slid under the Trigger for locking the gun. When not in use, this must be done in order to prevent accidental dispensing.
8. Press the RESET button until the Batch total returns to zero. The Totalizer cannot be reset in any way.

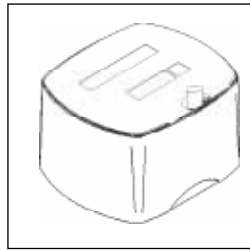
MAINTENANCE

This oil control gun, when used correctly, does not require any special maintenance. Inadequate filtration before the Flow Meter can lead to wear and clogging of the measurement chamber which should be cleaned as mentioned in the section CLEANING OF THE MEASURING CHAMBER.

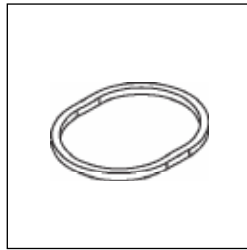
EXPLODED VIEW



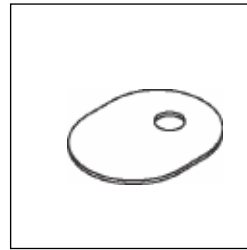
(Fig. 1) Protective Shroud



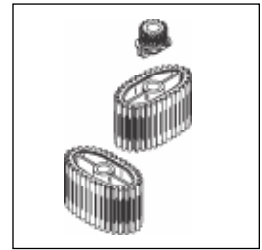
(Fig. 2) Register Assembly



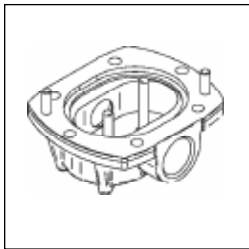
(Fig. 3) Gasket



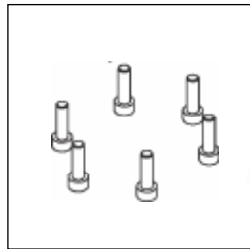
(Fig. 4) Oval Disk



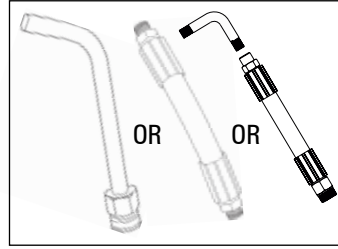
(Fig. 5) Oval Gear



(Fig. 6) Lid



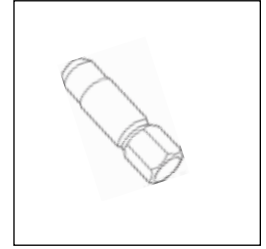
(Fig. 7) Bolts



(Fig. 8) Extension



(Fig. 9) Gun Handle



(Fig. 10) Non Drip Nozzle

PARTS DESCRIPTION

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
8	Extension (Option of Rigid Steel or Hose)*	1
9	Gun Handle	1
10	Non Drip Nozzle (Manual / Automatic)	1

* Model with bend pipe comes only with manual non drip nozzle and a flexible hose

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

Use a soft brush or a small tool like a screwdriver for cleaning.

1. Remove the meter from the gun handle (Fig. 9) & extension / hose (Fig. 8)

2. Remove the protective Shroud (Fig. 1)



3. 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).



4. Remove the underside lid (Fig. 6) from the body.



5. Remove the gasket (Fig. 3)



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



7. Remove the oval gears (Fig. 5) from the inside of the lid.



8. Clean the inside of the lid and the measuring chamber using a soft brush. Take care not to damage the Aluminium surface.



9. Reassemble the parts by following steps 1-8 in the reverse order, taking particular care to



- Install the gasket correctly after having checked and lubricated them.
- Tighten the bolts in a diagonal pattern correctly.
- 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

WETTED COMPONENTS

Aluminium , Stainless Steel, Steel, Nylon, Viton, Nitrile Rubber & POM

RECOMMENDED USE

Oils with viscosity upto 2000 cSt, Diesel, Biodiesel

DO NOT USE WITH


Water based media, Gasoline etc.



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