

# MECHANICAL HOSE END METER

## MANUAL



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## 1. Description

Mechanical oval gear volume meter for lubricants with current dispensed quantity "batch" display and accumulated lifetime quantity dispensed "totalizer" display.

**Litres version** batch display shows up to 999,9 litres and the totalizer up to 999 999 litres.

**US Gallons version** batch display shows up to 999.9 quarts and the totalizer up to 99 999 US gallons.

The batch display can be reset to zero, the totalizer can not be reset to zero.

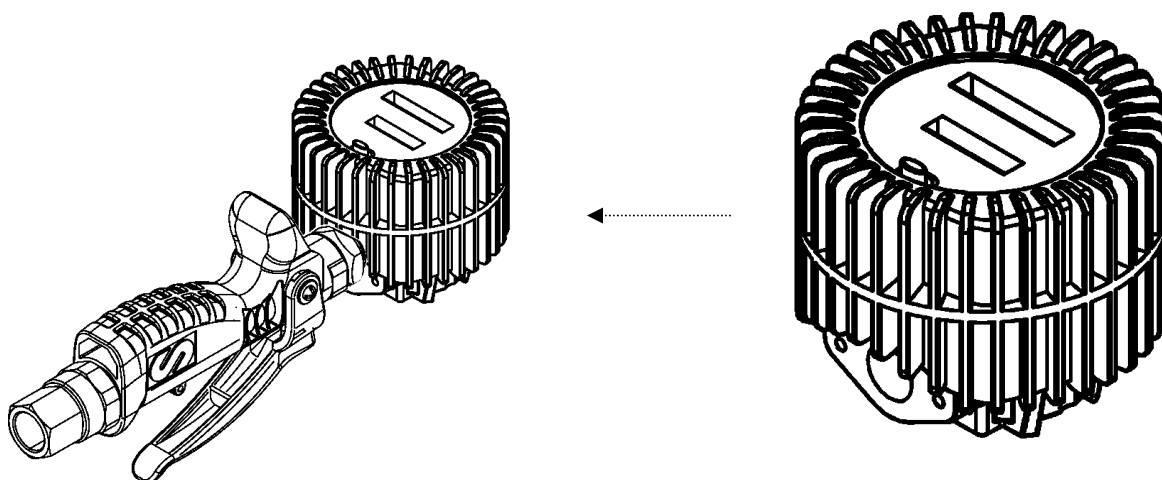
### WARNING

*To ensure correct and safe use of the meter, please first read and comply with the instructions and warnings in this manual.*

*Incorrect installation or use of the meter could cause injury or material damage.*

*Once the meter has been installed, please make sure that there are no risks of damage to the meter due to excessive pressure or particles in the fluid. Please check that all connections are leak proof.*

*For accurate metering it is essential that there is no air in the fluid supply.*



## 2. Installation

The meter can be installed in any orientation directly in a distribution pipeline/hose or can be connected to a control valve to be used as a hose end meter. Use sealant on the connection threads. The inlet / outlet of the meter have 1/2" female threads.

The meter has one preset flow direction (fig. 2).

In the case of a hose end meter installation, in order to ensure a leak free connection between the pistol and the hose fitting with a 1/2" male thread, we recommend to install the pistol as follows:

- Clean all eventual dirt and grease from pistol swivel and the hose connector threads.
- Brush the 1/2" male hose connector thread with liquid sealant. Ensure that no sealant gets into the pistol.
- Screw the pistol and hose connector together. Take care to avoid damaging the pistol swivel.
- The sealant manufacturer's instructions should be strictly followed.
- The meter installation should only be carried out by qualified staff.

If particles or other solids get into the measuring chamber, then the meter may not measure correctly and could be damaged, therefore it is recommended to install a 400 micron filter upstream. The user is responsible for the selection of appropriate components and compliance with applicable regulations.

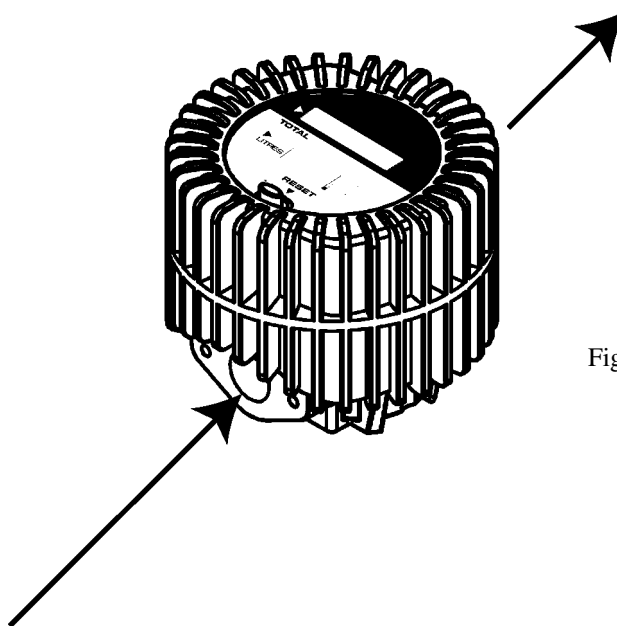


Fig. 2

### 3. Operation

Once installed, the meter is ready for use. Press the RESET button to reset the batch display to zero.

Ensure that the operating pressure will never exceed the specified operating pressure as stated below under Technical Information.

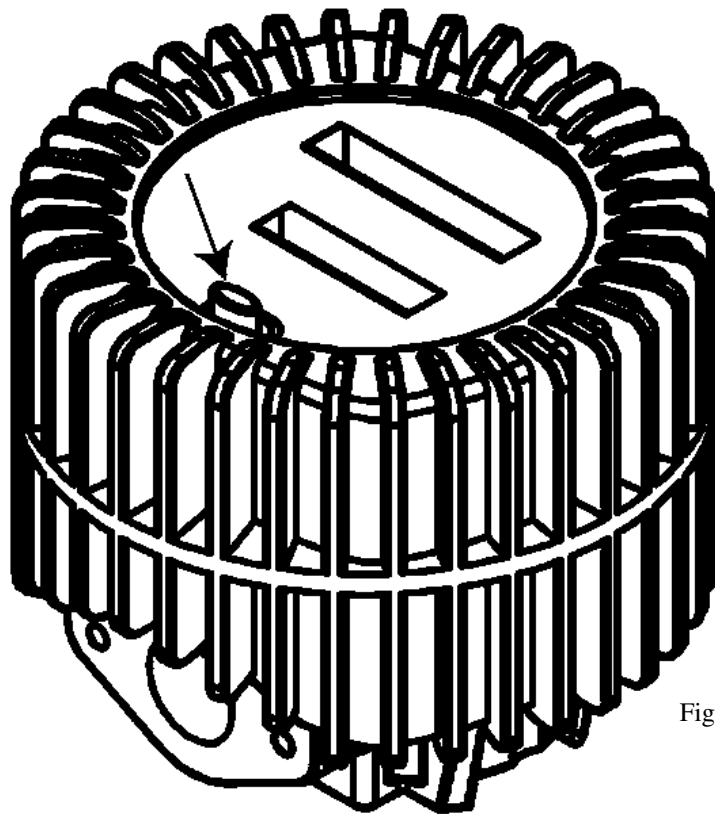


Fig. 3

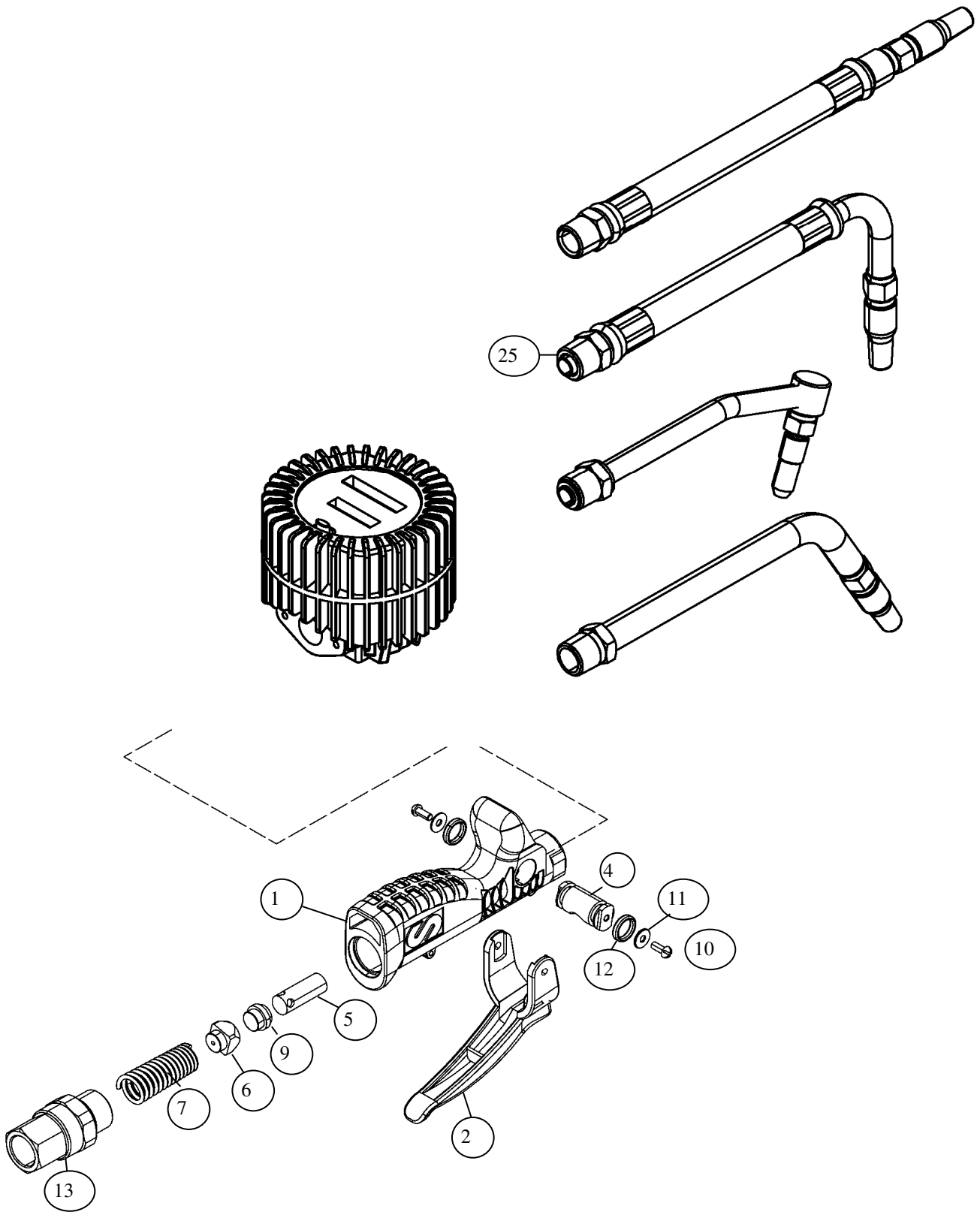
#### 4. Technical information

Meter flow rate	1-25 L/min (0,25-7 Us gal/min)
Maximum operating pressure	70 bar (1000 psi)
Burst pressure	210 bar (3000 psi)
Storage temperature	-20°C- +80°C
Storage humidity	85%
Maximum batch reading (litres)	999,9
Maximum totaliser reading (litres)	999 999
Maximum batch reading (quarts)	999,9
Maximum totaliser reading (gallons)	99 999
Accuracy	+/- 1% (SAE 10-40W at 20°C)
Connections	Inlet/ Outlet ½" female
Weight	785 g

#### 5. Parts list

POS	Part No.	Description
1		Body
2	204 60 13	Trigger
4		Cam
5		Sleeve
6		Valve holder
7		Spring
9		Valve
10		Bolt
11		Washer
12		O-ring
13	224 59 99	Swivel
21		Meter
25	369 218	Outlet hose
4+5+9+12	224 60 56	Repair kit
1-13	234 60 90	Complete pistol

## 6. Parts list exploded view



## 7. Chamber cleaning

Please refer to Chamber cleaning exploded view.

To access and clean the measuring chamber:

- Remove the rubber protection
- Unscrew the 6 bolts (A) located under the meter body
- Remove the top half of the meter from the metering chamber (B)
- Remove the gasket (C), the oval disc (D) and the gears (E).
- Clean the metering chamber and the gears carefully using a soft brush.

To reassemble the meter, carry out the above-mentioned steps in reverse order:

- Check and lubricate the gasket (C) seal and carefully refit.
- Assemble the oval gears (E). The oval gear with the circular transmission gear should be to the right (fig. 4).
- Ensure that the oval gears rotate freely.
- Reassemble the oval disc (D).
- .
- Fasten the bolts (A).

