

7 CUSTOMIZING THE METER

Customizing the METER means using the options offered by the METER to guarantee an easy, handy and accurate use. METER customization can be carried out by the Manager using the **Customization Menu** which gives access to the following customization options:

- Setting the most frequently used **PRESET VALUES**
- Selecting the **Unit of measurement**
- Selecting the **Number of Decimal Digits**
- Activating the **Auto RESET** function
- Modifying the **Precision Stop Factor (PS Factor)**
- Modifying the **Calibration Factor (K Factor)**

(* = Not available on all models)

7.1 CUSTOMIZING MENU

To access the various customizing functions and select the desired options, **two different actions are possible on the keys:**

This symbol indicates the necessity to **press the key briefly** with consequent release.

This symbol indicates the necessity to **press and keep pressed the key for a few seconds**.

To exit the customization menu, independently from the activity in progress, **press RESET**. The **currently displayed settings become immediately operational**.

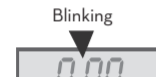
To access the customization menu: If the METER is off, press RESET to restart it. The METER will display:



If the METER displays the **Resettable TOTAL**, wait for a few seconds until the METER automatically displays the **TOTAL**.

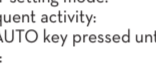


Only in this condition it is possible to enter the customization menu. Simultaneously press AUTO and RESET keys and keep them pressed until the METER displays:



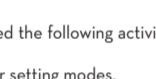
You have now entered the following activity: **Setting the most frequently used PRESET values**.

See paragraph 7.2 for setting modes. To access the subsequent activity: Press and keep the AUTO key pressed until the METER displays:



You have now entered the following activity: **Selecting the Unit of Measurement**.

See paragraph 7.3 for setting modes. To access the subsequent activity: Press and keep the AUTO key pressed until the METER displays:



You have now entered the following activity: **Selecting the Number of Decimal Digits**.

See paragraph 7.4 for setting modes. To access the subsequent activity: Press and keep the AUTO key pressed until the METER displays:



You have now entered the following activity: **Activating the Auto RESET function**.

See paragraph 7.5 for activation mode. To access the subsequent activity: Press and keep the AUTO key pressed until the METER displays:



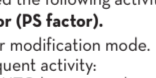
You have now entered the following activity: **Modifying the Precision Stop Factor (PS Factor)**.

See paragraph 7.6 for modification mode. To access the subsequent activity: Press and keep the AUTO key pressed until the METER displays:



You have now entered the following activity: **Modifying the Calibration Factor (K Factor)**.

See paragraph 7.7 for modification mode. To access the subsequent activity: Press and keep the AUTO key pressed until the METER displays:



To exit the customization mode, independently from the activity in progress, **press RESET**. The **currently displayed settings become immediately operational**.

7.2 FREQUENTLY USED PRESET VALUES

The METER allows the operator to store 5 different most frequently used PRESET values (AUTO1 ... AUTO5) which can be quickly recalled without having to set them each time by means of the numeric keys.

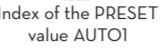
The first time this activity is accessed, all the PRESET values stored (AUTO1 ... AUTO5) are set to zero.

When the METER displays:

7.5 AUTO RESET

The METER is equipped with an Auto RESET function. When the function is activated, a few minutes after the end of a dispensing operation, the METER automatically resets the Batch Total.

When the METER displays:



Use the numeric keys to set a new PRESET value (which will replace the value previously stored in memory). If for example it must be assigned the value 31.2 to AUTO1 press:

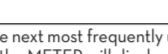


The METER displays:



By keeping the keys pressed, the value continues to vary.

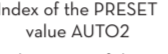
To modify or check the next most frequently used PRESET value, press the AUTO key; the METER will display:



and is ready to accept the setting of the PRESET value AUTO2. Each time the AUTO key is pressed, the next AUTO value is displayed.



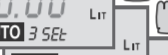
Press AUTO and keep it pressed to access the next activity.



Press RESET to exit the customization menu.



Press AUTO and keep it pressed to access the next activity.



Press AUTO and keep it pressed to access the next activity.



Press AUTO and keep it pressed to access the next activity.



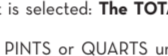
Press AUTO and keep it pressed to access the next activity.



Press AUTO and keep it pressed to access the next activity.



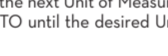
Press AUTO and keep it pressed to access the next activity.



Press AUTO and keep it pressed to access the next activity.



Press AUTO and keep it pressed to access the next activity.



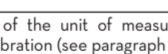
Press AUTO and keep it pressed to access the next activity.



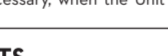
Press AUTO and keep it pressed to access the next activity.



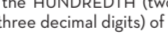
Press AUTO and keep it pressed to access the next activity.



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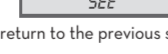
Press AUTO and keep it pressed to access the next activity.



Press AUTO and keep it pressed to access the next activity.



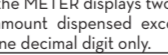
Press AUTO and keep it pressed to access the next activity.



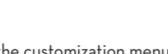
Press AUTO and keep it pressed to access the next activity.



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Press AUTO and keep it pressed to access the next activity.



Press AUTO and keep it pressed to access the next activity.

7.6 STOP PRECISION IN AUTO MODE

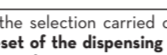
The function described in this paragraph only concerns those operators who want to obtain the maximum dispensing stop precision in AUTO mode. If a slight excess of the preset value (a few hundredths of litres) does not cause any problem, the present paragraph can be ignored.

The METER, in AUTO mode, allows the user to obtain a high precision stop, thus dispensing exactly the preset amount without exceeding the PRESET value.

To guarantee this high stop precision, especially when the unit operates at the maximum allowed flow-rates, the valve does not close when the PRESET value is reached, but when the dispensed amount is lower than the PRESET value by a few Unit hundredths. To guarantee the dispensing stop precision, this pre-stop value must not be fixed, but strictly dependent on the flow-rate used. To allow the Manager to obtain the highest stop precision, the unit has been equipped with a Stop Precision Factor (Precision Stop) called **PS Factor**. The Manager, during the METER customization, can select a **PS Factor ranging between ZERO and FIVE**. By selecting **PS = 0** a pre-closing equal to ZERO is set; by selecting **PS = 5** the MAXIMUM pre-closing is set.

The higher the flow rate, the higher the selected PS value must be. Selecting a too high PS value, the dispensed amount may be lower than the preset value by some hundredths of a litre.

When the METER displays:



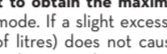
Press AUTO to increase the PS Factor by one unit.



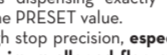
Press AUTO to increase the PS Factor by one unit.



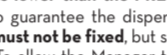
Press AUTO to increase the PS Factor by one unit.



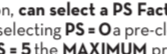
Press AUTO to increase the PS Factor by one unit.



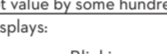
Press AUTO to increase the PS Factor by one unit.



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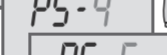
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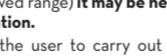
Press AUTO to increase the PS Factor by one unit.



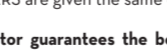
Press AUTO to increase the PS Factor by one unit.



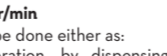
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7.7 CALIBRATING

The METER is equipped with a liter-counter high precision oval gears, factory pre-calibrated.

If the METER is used with fluids having a viscosity close to the limits of the allowed range (such as low viscosity antifreeze fluids or high viscosity oils for gear boxes) in extreme flow-rate conditions (close to the min. and max. values of the allowed range) it may be necessary to carry out an on-site calibration.

The METER allows the user to carry out a fast and accurate electronic calibration by modifying the **Calibration factor (K Factor)**.

At delivery, all METERS are given the same calibration factor: **K Factor = 1,000**

This calibration factor guarantees the best accuracy in the following conditions:

- Fluid, motor oil type 10W 30
- Temperature: 20°C
- Flow-rate: 10 liter/min

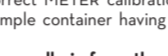
The calibration can be done either as:

- An on-site calibration, by dispensing into a calibrated container;
- A direct modification of the calibration factor.

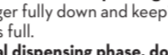
When the METER displays:



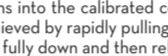
press the AUTO key, release it and press the AUTO key again. The METER displays:



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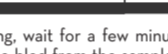
press the AUTO key, release it and press the AUTO key again. The METER displays:



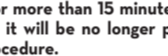
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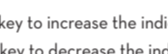
press the AUTO key, release it and press the AUTO key again. The METER displays:



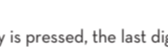
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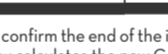
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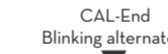
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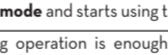
press the AUTO key, release it and press the AUTO key again. The METER displays:



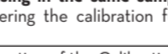
press the AUTO key, release it and press the AUTO key again. The METER displays:



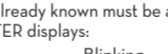
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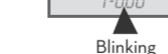
press the AUTO key, release it and press the AUTO key again. The METER displays:



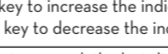
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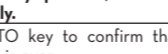
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8 MAINTENANCE OF THE METER

The only routine maintenance operations required by the METER are:

- battery replacement;
- filter cleaning.

These activities can be easily performed using standard tools. Any other extraordinary maintenance operation must be carried out by an authorized Service Centre.</

1 INDEX

1 INDEX
2 CE DECLARATION OF CONFORMITY
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4 GETTING TO KNOW THE METER
5 INSTALLING THE METER
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8 MAINTENANCE OF THE METER
9 PRODUCT IDENTIFICATION
10 CONSTRUCTION DATA
11 DISPOSAL

2 FACSIMILE COPY OF EU DECLARATION OF CONFORMITY

The undersigned: PIUSI S.p.A. Via Pacinotti 16/A z.l. Rangovino 46029 Suzzara - Mantua - Italy
HEREBY STATES under its own responsibility that the equipment described below: Description : dispensing nozzle for oil. Model: K500 Serial number: refer to Lot Number shown on CE plate affixed to product Year of manufacture: refer to the year of production shown on the CE plate affixed to the product complies with the following legislation: Electromagnetic compatibility The technical file is at the disposal of the competent authority following motivated request at PIUSI S.p.A. or following request sent to the e-mail address: doc_tec@piusi.com

3 GENERAL PRECAUTIONS

Important warnings In order to protect workers' safety, to avoid damaging and before performing any operation, please read and familiarize with the whole instruction manual. Symbols used in the manual In order to signal particularly important instructions or warnings, the following symbols are used:

- This symbol highlights important aspects as to SAFETY.
This symbol highlights important aspects as to the CORRECT USE of the METER.
This symbol highlights important aspects as to avoid POLLUTION HAZARDS.
The instructions provided by this manual satisfy both the Installer's and the Users' requirements (Manager and Operators) of the METER.
Operator The operator is the person who uses the METER to carry out dispensing operations.
Manager All paragraphs marked with this symbol concern the Manager.
Installer All paragraphs marked with this symbol concern the Installer only.
Manual storage This manual must be intact and completely readable. The final users, as well as the qualified technicians authorised to installation and maintenance must be able to view it at any time.

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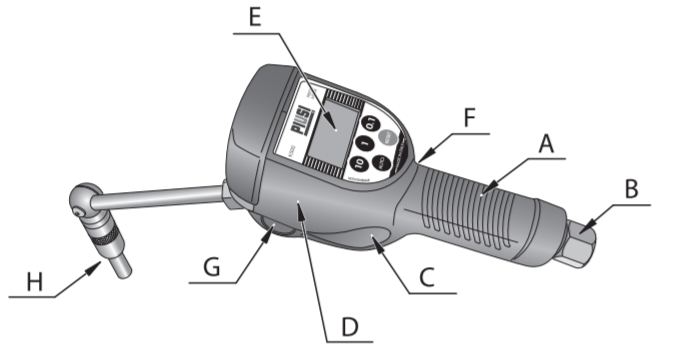
3.1 SAFETY WARNINGS

ATTENTION! You must avoid any contact between the electrical power supply and the fluid that needs to be pumped. Before any checks or maintenance work are carried out, disconnect the power source.

FIRE AND EXPLOSION When flammable fluids are present in the work area, be aware that flammable fumes can ignite or explode while the station is operating. EQUIPMENT MISUSE Do not operate the unit when fatigued or under the influence of drugs or alcohol. Do not leave the work area while equipment is energized or in operation. Turn off the equipment when not in use. Do not alter or modify the equipment. Alterations or modifications may void agency approvals and create safety hazards. Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. Keep children and animals away from the working area. Respect all safety norms in force. For issues arising from the treated product with eyes, skin, inhalation and ingestion refer to the safety data sheet of the fluid used. Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines. Prolonged contact with the product may cause skin irritation, during delicate tasks, always wear protective gloves.

4 GETTING TO KNOW THE METER

The METER is a dispensing nozzle for oils and other fluids, to be installed as a final shutoff device at the end of pressurized flexible hoses. Besides guaranteeing an exact measurement and display of the fluid amount dispensed, when used as a normal nozzle. The METER also allows the user to PRESELECT the quantity to be supplied and automatically stops dispensing when the preset amount has been reached. The METER integrates:



- A. An ergonomic handle.
B. A swivel, with a rubber cover, which allows the user to rotate the handle independently from the connected flexible hose.
C. A flow control valve, activated by a trigger, which is equipped with a protection against accidental starts.
D. A meter with oval gears, controlled by an electronic board and equipped with a battery-powered microprocessor.
E. A large liquid-crystal display, integrated in the 5-key keypad, for the communication between the K500 and the Operator.
F. A motorized valve shutting system, automatically activated by a microprocessor when dispensing a PRESELECTED amount (AUTO mode).
G. A multi-position extension to adjust the angle of the valve with respect to the handle.
H. An automatic no-drip valve, adjustable with respect to the end, to further facilitate dispensing in confined spaces.

4.1 DETAILED INFORMATION ON THE METER

The handle An external shock-resistant plastic cover contains all the components of the METER and provides an ergonomic handle.

The batteries The batteries are housed in the upper compartment. The cover is fixed by means of four screws. The user can easily access this compartment to replace the batteries.

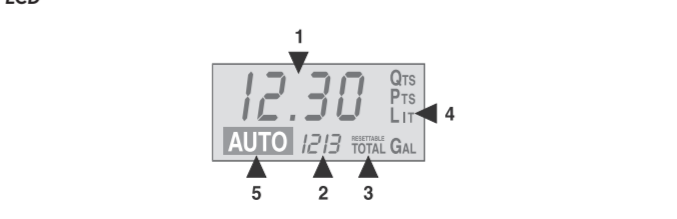
The swivel and filter The METER is equipped with a swivel to be connected to the flexible hose. The swivel is equipped with a 1/2" female thread (BPS or NPT) and houses the filter. The larger filtering surface guarantees a reduced pressure loss.

The rubber cover of the swivel During installation the swivel may be equipped with a rubber cover to prevent the swivel itself or the metal end of the flexible hose from damaging the vehicle body. This cover is available in different colours, which can be used as a 'colour code' to identify the dispensed product easily.

The trigger The METER is equipped with a balanced valve, controlled by a trigger, which can be activated using just one finger. The trigger, protected against accidental starting, can be:

- Released: The valve is in closed position.
Fully pressed: The valve is in maximum open position.
Locked in open position: The valve is in open position for automatic operation.

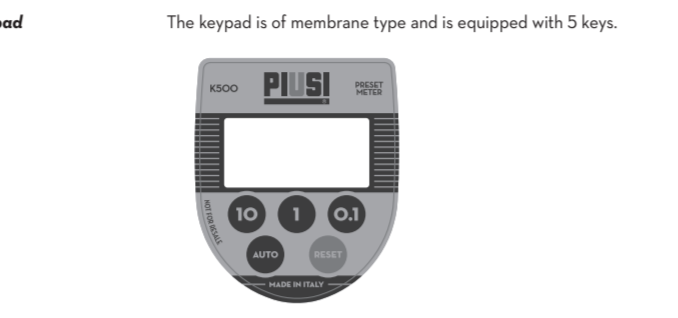
The METER uses an LCD with the following numeric registers and indications:



- 1. Batch total (4 digits, floating point)
2. Totals (7 digits)
3. Indication of the Total type (TOTAL / Resettable TOTAL).

Indication of the Unit of Measurement: QTS = Quarts PTS = Pints LIT = Liters GAL = Gallons
4. Indication of operation in AUTO mode. The LCD automatically turns off if the METER is not used for a certain period.
5. To reactivate the LCD press the RESET key.

Keypad The keypad is of membrane type and is equipped with 5 keys.

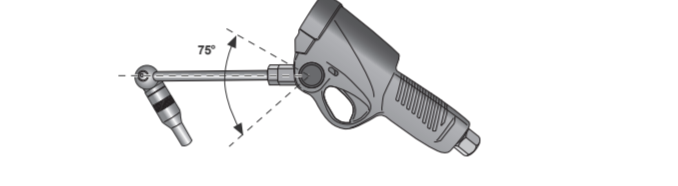


Numeric keys to be used to set the PRESET value (automatic dispense stop value). AUTO key to be used to select and confirm the PRESET value.

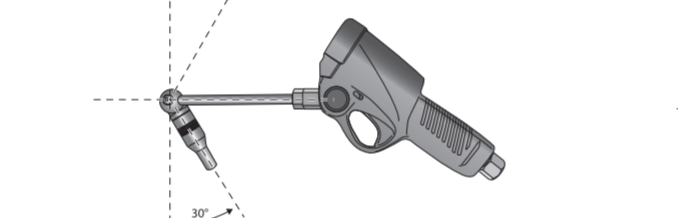
RESET key to be used to reset the Batch Total and to display the Resettable TOTAL.

To guarantee an accurate measurement of the dispensed amount the METER uses the principle of the oval gears.

To guarantee an easy use, the METER is equipped with a multi-position extension. It can be positioned by the operator within a 75° range.



The dipress valve can be rotated by 240°.



4.2 MANUAL AND AUTO OPERATION

The METER is a PRESETTABLE dispensing nozzle which can be used in two operating modes:

MANUAL Mode In MANUAL mode, dispensing starts as soon as the Operator operates the trigger. The only preliminary operation to be carried out by means of the METER keys is the possible resetting (RESET) of the value previously indicated on the Batch total. The operator must check the dispensing operation personally and stop it by releasing the trigger when the desired amount is reached.

The METER has been designed to ensure maximum safety during use: an avoid oil spillage due to an improper use or operator's carelessness. In particular the METER does not allow the valve to be locked in open position during MANUAL mode. This avoids a continuous dispensing, should the operator be absent or has not set an automatic stop value (AUTO mode).

To dispense using the PRESELECTION option, before starting dispensing the operator must: Select the desired amount by means of the METER keys as explained in paragraph 6.2. Confirm the selected value thus entering the AUTO mode: The METER displays the AUTO message and is ready to operate automatically without requiring the presence of the operator.

Start dispensing, by pulling the trigger and setting it to the locked position. The operator's presence is no longer needed and he can wait until the METER automatically stops once the selected amount has been dispensed.

In any case the operator must attend to the METER while dispensing in AUTO mode in order to avoid any oil spillage due to external factors. Carefully read the instructions given in paragraph 6.2 before dispensing in AUTO mode.

The METER allows the user to lock the trigger in open position only when the display shows the message AUTO. To lock the trigger in open position: pull it completely; then release it.

If the message AUTO blinks, automatic dispensing cannot be started; if the trigger is completely pulled and afterwards released, it does not remain locked in position, but it closes again thus interrupting the dispensing operation.

The blinking message AUTO indicates that the selecting phase of the desired value is still in progress, but the AUTO mode has not yet been entered by confirming the displayed value. The METER automatically unlocks the trigger thus stopping the dispensing when the predetermined value has been reached. However, while dispensing in AUTO mode, it is possible to stop dispensing manually before the desired value is reached by unlocking the trigger. To unlock the trigger and set it in closed position again: pull it completely; then release it.

When the dispensing has been manually stopped, as soon as the AUTO message is displayed, it is possible to restart the automatic operation as the trigger can still be locked in open position. The METER automatically exits the AUTO mode after a given period of time (TIME OUT) without dispensing.

5 INSTALLING THE METER

This paragraph describes the necessary operations to be carried out when the METER is installed for the first time on a new system or to replace an existing nozzle with the METER.

5.1 SYSTEM REQUIREMENTS

The METER has been designed to be used as a component of a centralized system for oil distribution and other industrial fluids, which must be manufactured and installed by specialized personnel in compliance with the standards relevant to such a pressurized system. To explain the installation and maintenance operations relevant to the METER, refer to the following diagram which shows a typical installation, as regards to the components located directly upstream any "dispensing outlet" of the METER.

- 1. Distribution system lines.
2. Shut-off valve.
3. Flexible hose for reel entry.
4. Reel.
5. Flexible hose.
6. Nozzle.

The presence of the shut-off valve in the system is necessary to ensure a safe and correct installation and maintenance of the METER without requiring to make the whole system unserviceable. The structure and complexity of the system upstream the above-mentioned shut-off valve (rigid or flexible feeding lines, pumps, tanks, valves, etc.) as well as the possible presence of the flexible hose reel can be freely chosen by the installer. In fact they do not affect the maintenance operations of the METER.

5.2 LINE PRESSURE RELIEF

This operation is to be carried out when replacing a pre-existing nozzle with the METER nozzle or when dismantling the METER for maintenance purposes. Failure to carry out the line pressure relief procedure may cause damage to persons or things.

Close the shut-off valve. Otherwise stop the feeding pump and make it unserviceable to avoid an accidental re-start during maintenance operations. Operate the valve of the nozzle to be replaced (or of the METER to be disassembled for maintenance purposes) dispensing into a suitable container in order to release the line pressure.

If a dipress valve is installed at the end of the nozzle, the pressure inside the line will not drop to zero, but it may remain around 0.2 - 0.5 bar, according to the dipress valve used.

Only for METER dismantling: remove the rubber cover from its coupling on the swivel and move it along the flexible hose in order to gain an easy access to the swivel.

By means of two wrenches, unscrew the threaded end of the flexible hose from the swivel.

Be careful to collect any oil leakage into a suitable container.

5.3 FLUSHING THE LINES

Flushing the lines means to let a given amount of oil flow inside them, so as to ensure a proper "washing" of the whole system, a correct cleaning and the absence of dirt, contaminated material or processed waste inside the lines before installing the nozzle. The flushing operation must be carried out on all lines upstream the nozzle and, in case the system is equipped with more than one nozzle, flush the lines which supply the nozzles farthest away from the supply pump, then continue with the nozzles situated near the pump. The flushing procedure depends on the type and features of the system and must be carried out by trained and qualified personnel in compliance with the procedures set down by the installer. This operation is absolutely necessary with NEW INSTALLATIONS or if the lines used are contaminated. Consequently it may not be necessary to carry out this procedure when replacing a nozzle already in use.

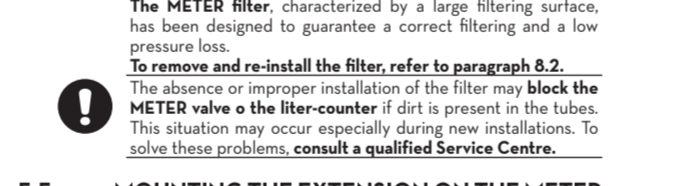
5.4 PRELIMINARY CHECKS ON THE METER

Make sure that the threaded end fitted on the flexible hose is and must be utilized by adult personnel professionally trained for the intended purpose. The METER must not be used outside the operating ranges (see Technical Data in paragraph 10.1) or for fluids other than lubricants and anti-freeze mixtures. Do not tamper with or modify the METER. Regularly check the good condition of the METER. The METER dispenses high-pressure fluids; do not point the nozzle to any part of the body. Use the personal protection equipment recommended by the national standards relevant to the dispensed products. Do not carry out any maintenance operation on the METER without previously relieving the pressure from the system lines. The METER is designed for indoor use only. Is used outdoors, make sure it will not be exposed to rain, snow or direct sunrays.

In case of manual dipress valve, after a daily use it is important to discharge the overpressure between the chamber (1) and the manual valve (2) of the spout. Carry out this operation with the pump switched off. Then unscrew the valve (2). During this discharging operation, do NOT push the trigger (3).

5.5 MOUNTING THE EXTENSION ON THE METER

The METER filter, characterized by a large filtering surface, has been designed to guarantee a correct filtering and a low pressure loss. To remove and re-install the filter, refer to paragraph 8.2. The absence or improper installation of the filter may block the METER valve or the liter-counter if dirt is present in the tubes. This situation may occur especially during new installations. To solve these problems, consult a qualified Service Centre.



6 USING THE METER

The METER has been designed for professional use and must be utilized by adult personnel professionally trained for the intended purpose. The METER must not be used outside the operating ranges (see Technical Data in paragraph 10.1) or for fluids other than lubricants and anti-freeze mixtures. Do not tamper with or modify the METER. Regularly check the good condition of the METER. The METER dispenses high-pressure fluids; do not point the nozzle to any part of the body. Use the personal protection equipment recommended by the national standards relevant to the dispensed products. Do not carry out any maintenance operation on the METER without previously relieving the pressure from the system lines. The METER is designed for indoor use only. Is used outdoors, make sure it will not be exposed to rain, snow or direct sunrays.

6.1 DISPENSING IN MANUAL MODE

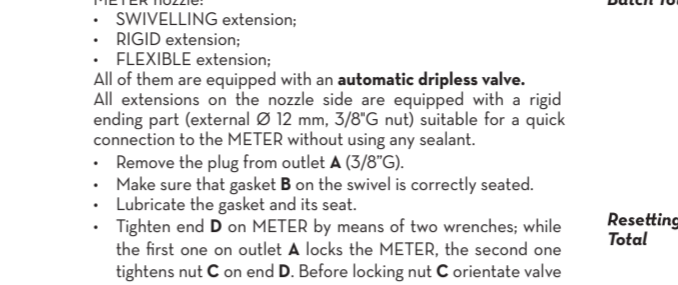
The METER can be used as a normal dispensing nozzle if the operator does not press an automatic stop valve. If the METER is off, press RESET to restart it.

The METER displays: Last amount dispensed 12.30, Non-resettable Total 12.3

The METER can be programmed to display the last amount dispensed until the RESET button is pressed or to automatically reset the Batch Total a few minutes after a dispensing operation in MANUAL mode (see "Auto RESET" at paragraph 7.5).

If the last dispensing operation has been carried out in AUTO mode, the dispensed amount is never reset, independently from the selection of the AUTO RESET.

Three different types of extensions can be installed on the METER nozzle: SWIVELLING extension; RIGID extension; FLEXIBLE extension. All of them are equipped with an automatic dipress valve. All extensions on the nozzle side are equipped with a rigid ending part (external Ø 12 mm, 3/8" G nut) suitable for a quick connection to the METER without using any sealant. Remove the plug from outlet A (3/8"). Make sure that gasket B on the swivel is correctly seated. Lubricate the gasket and its seat. Tighten end D on METER by means of two wrenches; while the first one on outlet A locks the METER, the second one tightens nut C on end D. Before locking nut C orientate valve E. An improper tightening of the extension may cause it to become loose thus endangering persons or things. Tighten the ring nut with a torque wrench setting of 3.5 Kg.



5.6 MOUNTING THE METER

- Fit the rubber cover of the swivel into the flexible hose, in the direction indicated in figure, making it slide over the male thread of the hose.
Apply a thread sealant to the male thread of the hose.
Tighten the swivel completely by means of two wrenches.
Slide the rubber cover towards the valve until it fits into the seat, located on the swivel.

5.7 AIR PURGING FROM THE LINES

After the installation of the nozzle, a certain quantity of air will be inevitably present both inside the flexible hose downstream the shut-off valve and in the other system lines. To purge the air and guarantee a steady flow and a correct calculation of the amount dispensed, two operators should proceed as follows: With the shut-off valve still closed, insert the METER extension into the opening of a container of suitable capacity, to avoid spraying or spillage which may occur during the initial irregular flow. While the first operator acts on the METER trigger, the second must open the shut-off valve; when the flow starts being steady, the second operator shall set the valve to the fully open position. Continue line purging while keeping the METER valve completely open, till reaching a steady flow. At this point release the trigger thus stopping dispensing.

5.8 CHECKING THE FLOW-RATE

Once carried out the installation and purging operations, it is advisable to check the dispensing flow-rate which must comply with the range indicated in paragraph 10.1, to ensure a correct operation of the valve. The METER allows the user to check easily and directly the dispensing flow-rate:

During the operation in MANUAL mode, press and keep pressed the AUTO key.

The METER will display the current flow-rate in units per minute. Batch total dispensed 9.450, Current flow-rate 5.8

If the flow-rate exceeds the range limits, adjust the system components (pumps or balancing valves) to comply with them.

6.2 DISPENSING IN AUTO MODE

The METER allows the user to select the automatic stop value - "PRESET value" - with different procedures: The METER allows the user to directly set the PRESET value by means of the numeric keys. If the METER is off, press RESET to restart it. The METER will display: Selected value 12.3, AUTO message Blinking

To confirm the PRESET value, press and keep pressed the AUTO key until the METER displays: Selected value 12.3, AUTO message Blinking

As long as the AUTO message blinks, it is not yet possible to start a new automatic dispensing; if the trigger is completely pulled, when released, it does not remain locked in open position but closes again thus interrupting the dispensing. The blinking message AUTO indicates that the selecting phase of the desired value is still in progress, but the AUTO mode has not yet been selected by confirming the displayed value. To confirm the PRESET value, press and keep pressed the AUTO key until the METER displays: Selected value 12.3, AUTO message Blinking

As long as the AUTO message blinks, it is not yet possible to start a new automatic dispensing; if the trigger is completely pulled, when released, it does not remain locked in open position but closes again thus interrupting the dispensing. The blinking message AUTO indicates that the selecting phase of the desired value is still in progress, but the AUTO mode has not yet been selected by confirming the displayed value. To confirm the PRESET value, press and keep pressed the AUTO key until the METER displays: Selected value 12.3, AUTO message Blinking

The METER allows the operator to use the most frequently used PRESET values without having to set them by means of the numeric keys. In particular, the METER stores: The last PRESET value "AUTO LAST"; Five different PRESET frequent values "AUTO 1 ... AUTO 5"; The AUTO LAST value is automatically updated each time a new PRESET value is set by means of the keypad; the last value used replaces the previous one in memory. The "AUTO 1 ... AUTO 5" values can be freely set and modified according to the personal protection equipment recommended by the national standards relevant to the dispensed products. If the METER is off, press RESET to restart it. The METER will display: Last amount dispensed 12.30, Non-resettable Total 12.3

Press AUTO. The METER displays the PRESET value stored in AUTO LAST. PRESET value 12.3, AUTO LAST indication Blinking

Pressing AUTO again, the METER displays the PRESET value stored in AUTO 1: PRESET value 10.4, AUTO 1 indication Blinking

To display the other stored values, press AUTO as many times as necessary to reach the desired value. The blinking message will be:

To reset the batch total, press RESET. The METER will display: Resettable Batch total 0.00, Non-resettable Total 10.4

To reset the resettable total, press and keep pressed the RESET key. The METER will display: Non-resettable total 0.00, Non-resettable total 10.4

Pull the trigger to dispense. Release the trigger to stop dispensing. Batch total zeroed, Indication AUTO not Blinking, Selected value 0.00

To start dispensing: Pull the trigger fully down and then release it. The trigger thus remains locked in open position. Now dispensing can continue even if the Operator is not attending.

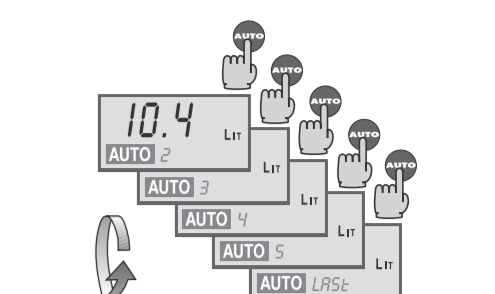
To stop manually the dispensing in progress: Pull again the trigger fully down and then release it.

The dispensing operation can be resumed in AUTO mode within a given time (TIME OUT) from the stop. Within this TIME OUT the METER still allows the locking of the trigger in open position. Once expired this TIME OUT, the METER still allows the user to continue the dispensing but only in MANUAL mode. Dispensing automatic stop: The supply automatically stops when the preset value is reached. The AUTO message disappears from the LCD. Manual resumption of the dispensing (TOPPING UP): Once dispensing has been carried out in AUTO mode, the METER allows the user to continue the dispensing operation, if necessary. To carry out the TOPPING UP, DO NOT press RESET and pull the trigger.

The dispensed amount is added to the previous one in AUTO mode. The PRESET value previously set, displayed in the Total, starts blinking to indicate that the preset value has been exceeded. Last amount dispensed 10.87, AUTO 1 indication Blinking

As long as the AUTO message blinks, it is not yet possible to start a new automatic dispensing; if the trigger is completely pulled, when released, it does not remain locked in open position but closes again thus interrupting the dispensing. The blinking message AUTO indicates that the selecting phase of the desired value is still in progress, but the AUTO mode has not yet been selected by confirming the displayed value. To confirm the PRESET value, press and keep pressed the AUTO key until the METER displays: Selected value 10.4, AUTO 1 indication Blinking

As long as the AUTO message blinks, it is not yet possible to start a new automatic dispensing; if the trigger is completely pulled, when released, it does not remain locked in open position but closes again thus interrupting the dispensing. The blinking message AUTO indicates that the selecting phase of the desired value is still in progress, but the AUTO mode has not yet been selected by confirming the displayed value. To confirm the PRESET value, press and keep pressed the AUTO key until the METER displays: Selected value 10.4, AUTO 1 indication Blinking



As long as the AUTO message blinks, it is not yet possible to start a new automatic dispensing; if the trigger is completely pulled, when released, it does not remain locked in open position but closes again thus interrupting the dispensing. The blinking message AUTO indicates that the selecting phase of the desired value is still in progress, but the AUTO mode has not yet been selected by confirming the displayed value. In this phase it is possible to modify the displayed AUTO value by means of the numeric keys. The modification of the displayed AUTO value, however, does not change the stored AUTO value; to modify the latter, it is necessary to follow the procedure indicated in paragraph 7.2. To confirm the PRESET value, press and keep pressed the AUTO key until the METER displays: Batch total zeroed, Indication AUTO not Blinking, Selected value 0.00

To start dispensing: Pull the trigger fully down and then release it. The trigger thus remains locked in open position. Now dispensing can continue even if the Operator is not attending.

To stop manually the dispensing in progress: Pull again the trigger fully down and then release it.

The dispensing operation can be resumed in AUTO mode within a given time (TIME OUT) from the stop. Within this TIME OUT the METER still allows the locking of the trigger in open position. Once expired this TIME OUT, the METER still allows the user to continue the dispensing but only in MANUAL mode. Dispensing automatic stop: The supply automatically stops when the preset value is reached. The AUTO message disappears from the LCD. Manual resumption of the dispensing (TOPPING UP): Once dispensing has been carried out in AUTO mode, the METER allows the user to continue the dispensing operation, if necessary. To carry out the TOPPING UP, DO NOT press RESET and pull the trigger.

The dispensed amount is added to the previous one in AUTO mode. The PRESET value previously set, displayed in the Total, starts blinking to indicate that the preset value has been exceeded. Last amount dispensed 10.87, AUTO 1 indication Blinking

As long as the AUTO message blinks, it is not yet possible to start a new automatic dispensing; if the trigger is completely pulled, when released, it does not remain locked in open position but closes again thus interrupting the dispensing. The blinking message AUTO indicates that the selecting phase of the desired value is still in progress, but the AUTO mode has not yet been selected by confirming the displayed value. To confirm the PRESET value, press and keep pressed the AUTO key until the METER displays: Selected value 10.4, AUTO 1 indication Blinking

As long as the AUTO message blinks, it is not yet possible to start a new automatic dispensing; if the trigger is completely pulled, when released, it does not remain locked in open position but closes again thus interrupting the dispensing. The blinking message AUTO indicates that the selecting phase of the desired value is still in progress, but the AUTO mode has not yet been selected by confirming the displayed value. To confirm the PRESET value, press and keep pressed the AUTO key until the METER displays: Selected value 10.4, AUTO 1 indication Blinking

To reset the batch total, press RESET. The METER will display: Resettable Batch total 0.00, Non-resettable Total 10.4

To reset the resettable total, press and keep pressed the RESET key. The METER will display: Non-resettable total 0.00, Non-resettable total 10.4

Pull the trigger to dispense. Release the trigger to stop dispensing. Batch total zeroed, Indication AUTO not Blinking, Selected value 0.00

To start dispensing: Pull the trigger fully down and then release it. The trigger thus remains locked in open position. Now dispensing can continue even if the Operator is not attending.

To stop manually the dispensing in progress: Pull again the trigger fully down and then release it.

The dispensing operation can be resumed in AUTO mode within a given time (TIME OUT) from the stop. Within this TIME OUT the METER still allows the locking of the trigger in open position. Once expired this TIME OUT, the METER still allows the user to continue the dispensing but only in MANUAL mode. Dispensing automatic stop: The supply automatically stops when the preset value is reached. The AUTO message disappears from the LCD. Manual resumption of the dispensing (TOPPING UP): Once dispensing has been carried out in AUTO mode, the METER allows the user to continue the dispensing operation, if necessary. To carry out the TOPPING UP, DO NOT press RESET and pull the trigger.

The dispensed amount is added to the previous one in AUTO mode. The PRESET value previously set, displayed in the Total, starts blinking to indicate that the preset value has been exceeded. Last amount dispensed 10.87, AUTO 1 indication Blinking

As long as the AUTO message blinks, it is not yet possible to start a new automatic dispensing; if the trigger is completely pulled, when released, it does not remain locked in open position but closes again thus interrupting the dispensing. The blinking message AUTO indicates that the selecting phase of the desired value is still in progress, but the AUTO mode has not yet been selected by confirming the displayed value. To confirm the PRESET value, press and keep pressed the AUTO key until the METER displays: Selected value 10.4, AUTO 1 indication Blinking

As long as the AUTO message blinks, it is not yet possible to start a new automatic dispensing; if the trigger is completely pulled, when released, it does not remain locked in open position but closes again thus interrupting the dispensing. The blinking message AUTO indicates that the selecting phase of the desired value is still in progress, but the AUTO mode has not yet been selected by confirming the displayed value. To confirm the PRESET value, press and keep pressed the AUTO key until the METER displays: Selected value 10.4, AUTO 1 indication Blinking

To reset the batch total, press RESET. The METER will display: Resettable Batch total 0.00, Non-resettable Total 10.4

To reset the resettable total, press and keep pressed the RESET key. The METER will display: Non-resettable total 0.00, Non-resettable total 10.4

Pull the trigger to dispense. Release the trigger to stop dispensing. Batch total zeroed, Indication AUTO not Blinking, Selected value 0.00

To start dispensing: Pull the trigger fully down and then release it. The trigger thus remains locked in open position. Now dispensing can continue even if the Operator is not attending.

To stop manually the dispensing in progress: Pull again the trigger fully down and then release it.

The dispensing operation can be resumed in AUTO mode within a given time (TIME OUT) from the stop. Within this TIME OUT the METER still allows the locking of the trigger in open position. Once expired this TIME OUT, the METER still allows the user to continue the dispensing but only in MANUAL mode. Dispensing automatic stop: The supply automatically stops when the preset value is reached. The AUTO message disappears from the LCD. Manual resumption of the dispensing (TOPPING UP): Once dispensing has been carried out in AUTO mode, the METER allows the user to continue the dispensing operation, if necessary. To carry out the TOPPING UP, DO NOT press RESET and pull the trigger.

The dispensed amount is added to the previous one in AUTO mode. The PRESET value previously set, displayed in the Total, starts blinking to indicate that the preset value has been exceeded. Last amount dispensed 10.87, AUTO 1 indication Blinking

As long as the AUTO message blinks, it is not yet possible to start a new automatic dispensing; if the trigger is completely pulled, when released, it does not remain locked in open position but closes again thus interrupting the dispensing. The blinking message AUTO indicates that the selecting phase of the desired value is still in progress, but the AUTO mode has not yet been selected by confirming the displayed value. To confirm the PRESET value, press and keep pressed the AUTO key until the METER displays: Selected value 10.4, AUTO 1 indication Blinking

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