POWER INSTRUCTIONS FOR: **DECALLS DECALLS DECA**

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.



IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND ONLY FOR ITS INTENDED PURPOSE. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. RETAIN THESE INSTRUCTIONS FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

- ✓ Maintain the meter in good condition (use an authorised service agent).
- ✓ Replace or repair damaged parts. Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ✓ Keep the meter clean for the safest and best performance.
- ✓ Ensure that a fuel filter is securely attached to any pick up pipe so that unfiltered fuel is not taken through the meter.
- ✓ Wear safety goggles, gloves and protective clothing when working around fuel. A full range of personal safety equipment is available from your local Sealey dealer.
- ✓ Use the meter in a suitable work area. Keep area clean and tidy and free from unrelated materials and ensure there is adequate lighting.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Keep children and unauthorised persons away from the work area.
- X DO NOT use the meter and any associated pump where explosive or flammable vapours may be present.
- □ WARNING! DO NOT pump the following fluids through the flow meter: Petrol, flammable liquids with Flashpoint <55°C, water, liquids with viscosity >20 cSt, corrosive chemicals and solvents.

2. INTRODUCTION AND SPECIFICATION

Introduction:

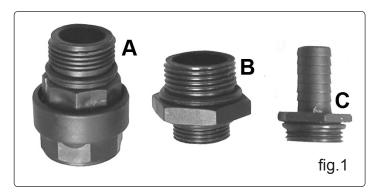
Volumetric nutating disc meter with three digit resettable display and six digit total display. Unique filter and flange assembly allows meter to be positioned in four configurations. Suitable for use with all Sealey brand diesel & fluid transfer pumps.

Specification:

| Working pressure: | 0.1 - 3.5 Bar |
|--------------------|----------------|
| Operating Temp: | 10 to +50°C |
| Precision: | |
| Flow Rate: | |
| Partial Indicator: | max 999 ltr |
| Total indicator: | max 999999 ltr |
| Resolution: | 0.1 ltr |
| Weight: | 1.5kg |
| | |

Accessories:

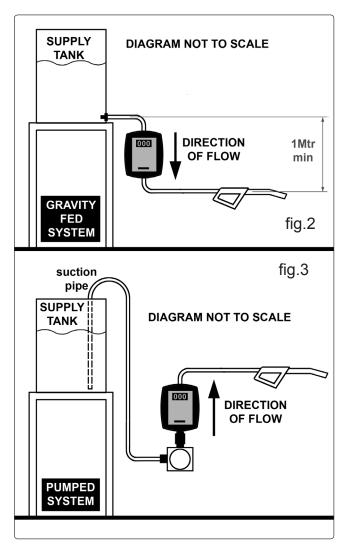
- A Swivel adaptor C - Outlet connector
- **B** Pump connector

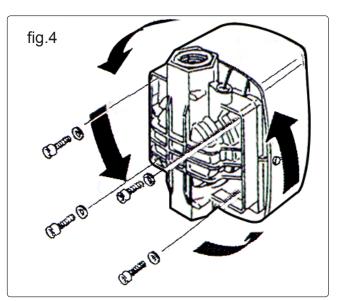


3. INSTALLATION

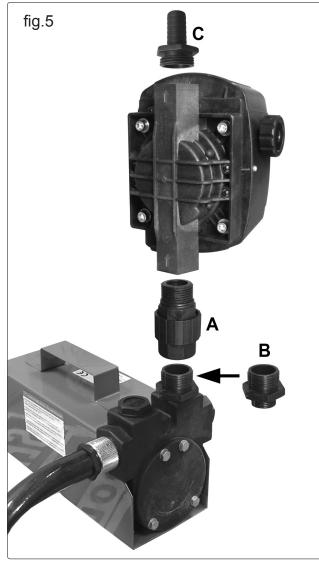
- 3.1 Installation options.
 - The TP91300.V2 flow meter can be used in both gravity fed systems (see fig.2) and circuits with motor pumps (see fig.3) or manual circuits equipped with a by-pass (not illustrated). In any particular installation, attention must be paid to the direction of flow through the meter as indicated by the moulded in arrows on the back of the unit. If the required installation will result in the meter readout being upside down it is possible to turn the face through 180° to correct this situation as described below.
- **3.2** Slide the reset knob from its shaft.
- 3.2.1 Undo both small crosshead screws at the sides of the plastic body.
- 3.2.2 Undo the four allen headed bolts at the back of the meter (fig.4)
- and prise off the back of the meter and rotate through 180° 3.2.3 Reassemble in the reverse order of the above.

- 3.2.4 Following installation and setting, (see section.3.3) the meter is ready for use. To reset the partial counter to zero, rotate the reset knob clockwise.
- 3.2.5 Constructed for operation at a maximum pressure of 3.5 bar (50 PSI), the meter must be mounted in a such way that no unfiltered liquid or air is pumped through it. In the case of gravitational systems (without pumps), there must be a difference in height of at least 1 metre between the outlet of the tank and the delivery gun to ensure optimum operation.





- 3.3 Mounting to a pump. (fig.3 & 5)
- 3.3.1 The TP91300.V2 flow meter can be directly mounted onto a pump outlet as shown in fig.6.
- 3.3.2 Before mounting the pump, check the required direction of flow and if necessary rotate the face of the meter as described in section 3.2.
- 3.3.3 Screw pump mounting adaptor 'B' into the pump outlet port ensuring that it is sealed with a suitable 'O' ring or PTFE tape.
- 3.3.4 Screw the outlet connector 'C' into the meter outlet port ensuring that it is sealed with a suitable 'O' ring or PTFE tape.
- 3.3.5 Screw the swivel adaptor 'A' into the meter inlet port ensuring that it is sealed with a suitable 'O' ring.
- 3.3.6 Place the whole assembly onto the pump outlet fitting and rotate the main body of the adaptor to screw it down onto the pump. Before finally tightening the fitting, rotate the meter on the fitting to point in the desired direction and tighten the fitting.





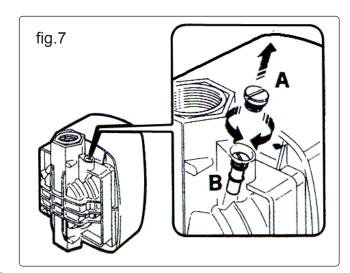
3.4 In-line Mounting. (ref. fig.2)

3.4.1 When mounted in an in-line situation the TP91300.V2 flow meter must still be rigidly mounted for safe and accurate performance. Once the meter is properly fixed it can be connected via rigid or flexible pipework that is suitable for the liquid flowing through it.

3.5 Resetting.

The meter has been set at the factory to a pressure of 1.5 bar, (21PSI) whilst transferring Diesel oil. As the operating pressure is a fundamental factor for the measurement mechanism, it is recommended that the meter is reset every time different pressures and/or liquids are used. The meter must also be reset every time it is disassembled for maintenance.

- 3.5.1 Unscrew the setting plug (screw A in fig.7).
- 3.5.2 Start the flow by opening a valve or starting a pump then stop the flow of liquid by closing the delivery gun without stopping the flow.
- 3.5.3 Set the partial indicator to zero.
- 3.5.4 Perform the delivery at the flow rate for which the precision is required by transferring it into a container calibrated for no less than 20 litres.
- 3.5.5 Compare the value indicated on the partial/total counter with the volume in the container (the real value).
- 3.5.6 Turn the adjustment screw (B in fig.7) clockwise if the value is lower and counter-clockwise if the value is higher.
- 3.5.7 Repeat operation 4 until the measurement is satisfactory.
- 3.5.8 Screw the setting plug (screw A) back into place.



Original Language Version

TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|--------------------------|--------------------------------------|---|
| Unsatisfactory precision | Incorrect setting | Reset (see above) |
| | Measurement chamber dirty or clogged | Clean measurement chamber |
| | Presence of air in liquid | Identify and eliminate leaks in suction lines or add foot valve |
| Low flow | Measurement chamber dirty or clogged | Clean measurement chamber |
| | Filter dirty or clogged | Clean filter |

To obtain a parts listing and/or diagram, please log on to www.sealey.co.uk, email sales@sealey.co.uk or phone 01284 757500.

Parts support is available for this product.

NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice. **IMPORTANT:** No liability is accepted for incorrect use of this product. E

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim. INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



Sole UK Distributor, Sealey Group, Kempson Way, Suffolk Business Park, Bury St. Edmunds, Suffolk, IP32 7AR

Original Language Version

01284 757500

A 01284 703534

www.sealey.co.uk

email sales@sealey.co.uk