

INSTALLATION & OPERATING INSTRUCTIONS OT32 & OTM32 OIL TALLY METER

PLEASE READ THE FOLLOWING CAREFULLY BEFORE INSTALLATION AND RETAIN FOR FUTURE REFERENCE

This meter is designed for use with light heating oil, diesel and kerosene fuel oil in domestic applications. Modification, adaptation or use for any other purpose without our written agreement will void the warranty.

Technical Specification

- Flow Range: 1 to 50 Litres per Hour (Maximum 80 LPH intermittently)
- Accuracy: +/-2% of reading (repeatability +/-0.1%)
- Maximum Working Pressure: 25bar (pressure loss: 0.2bar max)
- Temperature Range: -10C to+ 60C

IMPORTANT WARNING NOTES

- Installation and service of this equipment must only be carried out by competent persons.
- The installation must conform to all relevant regulations and standards.
- The sealing plugs in the meter inlet and outlet threads must be removed before installation.
- Observe the flow range - the meter will not operate with flows outside the range given.

Installation Instructions

1. Always install the meter based on the direction of flow as shown by the arrow on the meter.
2. The meter can be installed on the suction or delivery side of the boiler pump.
3. The meter can be installed horizontally with the meter head upright or vertically but if vertically the flow must be upwards through the meter. The register can be rotated to enable easy viewing once installed.
4. The pipe layout must ensure that the meter is filled with fluid at all times.
5. Where backflow may occur a non-return valve should be fitted after the meter to prevent inaccurate readings.
6. An 80micron filter should be fitted before the meter to prevent impurities entering and damaging the meter.
7. The meter is supplied with two 10mm compression x ¼" BSPM adaptors. After removing the sealing plugs the ¼" BSPM ends should be tightened into the inlet and outlet threads of the meter (max 7Nm). The fitted washers will seal the adaptors to the meter and no sealant or thread tape is required.
8. The 10mm compression fittings are used to connect the meter into a 10mm oil line. After turning off the oil flow a 145mm length of pipe should be removed to allow the installation of the meter into the line. For lines other than 10mm additional adaptors (not supplied) will be required and the removed pipe length may vary.
9. To prevent stress on the pipe and connections support the meter if necessary.
10. Turn on the oil flow and check the meter for correct operation and all fluid connections for leaks.

How to Read your Meter

Your Oil Tally meter has a mechanical register with the following features;

- A seven digit non-resettable display showing the accumulated total in litres to 99999.99. The Black and the first of the Red digits are complete litres and the last two Red digits represent 0.10 and 0.01 litre giving a reading to Two decimal places (0.00). For example; 0074406 would read as 744.06 litres.
- A red sweep hand on a dial showing 0.01 of a litre. When read in conjunction with the main display this gives a reading to three decimal places (0.000).
- A black visual indicator that shows that flow is present through the meter.

Problem Solving

1. **The meter does not register any flow and no oil is reaching the appliance;** check that the oil tank is not empty; check that the filter is not clogged preventing oil from passing; check that there is oil in the system and not air by undoing the fitting at the appliance and allowing air to escape until oil flows freely; check that the system flow rate is greater than 1 Litre per Hour; check that no foreign bodies have clogged the inlet to the meter; check that any non-return valve fitted is working.
2. **The meter does not register any flow but oil is reaching the appliance;** check that the system flow rate is greater than 1 but no more than 80 Litres per Hour.

Warranty

This meter is subject to our standard 12 month warranty from the date of dispatch. For service advice please call Bell Flow Systems Ltd on 01280 817304 or email sales@bellflowsystems.co.uk