

K33 & K44 Calibration instructions

The K33 and K44 meters are pre-calibrated in factory to be used with diesel oil. As specific operating conditions (such as real flow rate, nature and temperature of the measured fluid) may affect the meters accuracy.

A recalibration should be carried out after installation has been completed. A new calibration is necessary each time the meter is disassembled for maintenance operations or when it is used to measure fluids that differ from diesel oil.

Calibration procedure:

1. Unscrew the plug (see diagram 1)
2. Purge the system (pump, pipelines, and meter) of air by dispensing until the flow is full and steady.
3. Stop the flow by shutting off the nozzle, but keep the pump running.
4. Reset the batch register by means of the reset knob (pos 2)
5. Dispense at full flow rate into the calibration container, having a capacity no lower than 20 litres. Do not reduce the flow in order to reach the graduated zone of the calibration container. The right method is to start and stop the full flow repeatedly until the required filling is obtained.
6. Compare the indication of the calibration container (real value) with the one on the meter (indicated value). If the indicated value is higher than the real value, loosen the screw (pos 12); if the indication value is lower than the real value, tighten the screw (pos 12).
7. Repeat the operation 4-6 until the accuracy is satisfactory.
8. Tighten the plug (pos 14) again. The 'o' ring which the calibration screw is provided with, has the function to avoid accidental loosening of the adjustment screw, but does not have any sealing functions. Therefore it is always necessary to properly fix the plug with the sealing gasket (pos 12).

