

Manometers

Installation, Operation and Maintenance Manual

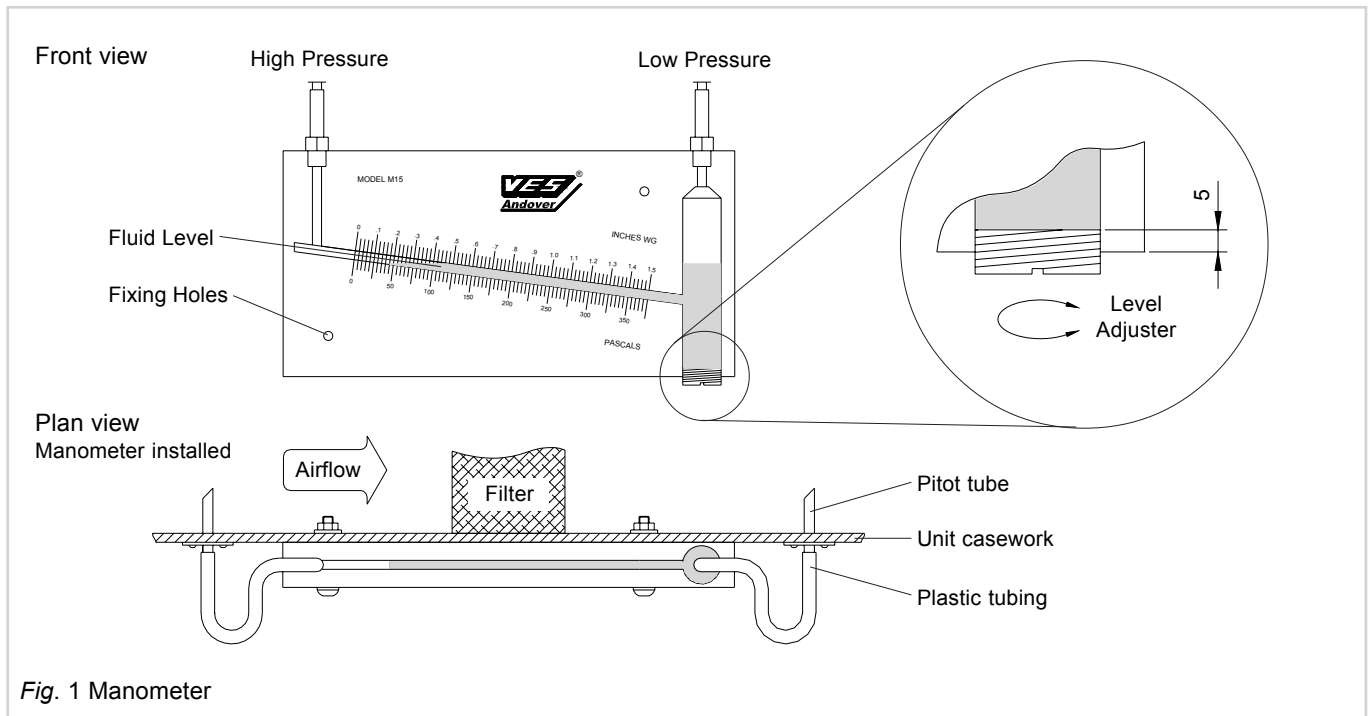


Fig. 1 Manometer

General

Designed for permanent installation to continuously monitor positive (high), negative (low) or differential pressures.

The M8 and M15 manometers are manufactured from solid clear plastic block which is extremely durable and ideally suited for plantroom or exposed locations.

- The M8 unit has a range of 0-200Pa
- The M15 unit has a range of 0-375Pa
- Unit dimensions 200mm wide x 100mm high x 24mm deep

The unit is supplied complete with two skin fittings, 1.5 metres of clear plastic tubing, screws and cup washers. It comes ready filled with manometer fluid and a bottle of top up fluid and funnel are included.

Typical applications include monitoring of filters in air handling units, pressure in ventilation systems and clean room systems.

Installation and Operation

The instrument should be mounted on a vertical surface with the top edge horizontal (for best results use a small spirit level). Two self-tapping fixing screws and plastic washers are provided.

The gauge is supplied filled with SG 0.8 manometer fluid, adjust using the level adjuster (see fig.1) and calibrate the reading to zero.

If the gauge is unfilled turn the level adjuster (see fig.1) at the bottom of the reservoir so the seal is at the centre of its travel (about 5mm above the thread end). Fill with SG 0.8 manometer fluid until the level is approximately at the zero position again. Use the level adjuster to obtain exact zero.

With the smaller self-tapping screws supplied affix a duct connector (pitot tube) to each side of the filter, ensuring enough tube is available to reach the gauge.

Cut the tubing into suitable lengths and connect the upstream duct connector to the left hand gauge connector (high pressure), and the downstream side to the right (low pressure).

Maintenance

The gauge should remain relatively maintenance free. However, it is advisable to check the zero position occasionally and if necessary top up the fluid. To check the gauge has been calibrated to zero, disconnect the negative and positive connections on the manometer. The fluid level should settle to zero, adjust if required using the level adjuster (see fig. 1) as before and ensure the connections are correctly reinstalled.

If the gauge becomes dirty internally it may be stripped down, emptied and the body washed in a mild detergent solution. Rinse thoroughly, dry completely and re-assemble. Ensure the gauge is refilled with clean SG 0.8 manometer fluid.

When enquiring after or ordering spares contact VES Spares Department, quoting the sales order (SO) number where appropriate.

Telephone	08702 40 43 40
Fax	08702 40 45 50



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