Instruction Leaflet

M310-2 June 2004

Level

Mobrey

magnetic level switches

Section 2: Installation M310-2

Direct mounting level switches

(Direct into vessel)

Unpack the Mobrey magnetic level switch from its box and remove all packing pieces, tie strings and tape. The gasket supplied with this product is a non-asbestos composite and must be handled with care to avoid damage.

This switch contains strong permanent magnets: Ferrous debris or particles may become attached to the float magnet. Always check the float magnet is clean before final installation.

The level switch should be positioned so that the float may move freely over its full travel and not foul the sides, bottom or top of the tank etc., in which it is mounted. Positions where turbulence may be caused by agitates or by inlet connections should be accided. The plant should be clear of any loose materials or metallic particles which might accumulate round the float magnet and interfere with the operation of the switch. Where the liquid may contain sediment or solid particles, perticular attention must be given to keeping these free of the float assembly.

When mounted the switch flarge should be vertical within two degrees either way. A table of mounting flarge details is given on Page 2-2.

When titted to an open tank or sump, not under pressure, the switch may be mounted through a hole cut in the tank and secured with bolts or studs. Mobrey tompanion flarges are available to facilitate mounting - details on page 2-2.

Mobrey magnetic level switches have the type number stamped on a nameplate fixed either to the end cap.



mobrey www.mobrey.com switch body or on the terminal box. For catalogue models the type number bears the prefix '5' for the switch head and 'F' for the float unit. The float unit carries a permanent magnet which is opposed magnetically to a similar magnet in the switch assembly. The switch contacts are changed over with a snap action by magnetic repulsion between the magnets, acting across the wall of the switch body. No intermediate 'off' costion can be obtained.

Variations to catalogue models are identified by a 7****/
**** type number. The nearest standard production type
number is also quoted on the equipment namepiate to
allow identification of the relevant paragraphs in this
manual.

Level Switches for vertical mounting

A suitable mounting bracket is required for mounting the switch over open top tanks and sumps. Note: The diameter of a standard float on a vertical float and is larger than the hole required for the switch head and the float must therefore be littled from inside the

The switch should be conveniently positioned at a point of access for both installation and maintenance. Care should be taken to ensure that condensation senot deals down the conduit for the switch head.

Switches in pressurised vessels

A studded pad is necessary where the switch is required to operate in a pressure vessel. See page 2-3 for flange and bolting data.

Level switches in chambers

Mobrey magnetic level switches supplied in or with an external chamber (cage) are supplied loosely assembled only. It is the responsibility of the installer to check that all packaging, the strings, tapes and filler materials are moved from around and isside the chamber and switch before the assembly is boiled down and in accordance with the torque settings given on page 2-3.

When installing, using or maintaining external chambon supplied compliant with the Pressare Equipment Directive, refer also to the Safety Information (Leaflet No. M310/SE) supplied with the product for further details.

Switches mounted in chambers externed to the main vessel should be fitted with suitable values so that the chamber may be blown down periodically or isolated for soutine maintenance as required.



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