MAGNETIC TYPE FLUID GAGES

For Small Size Transformers

INSTRUCTIONS

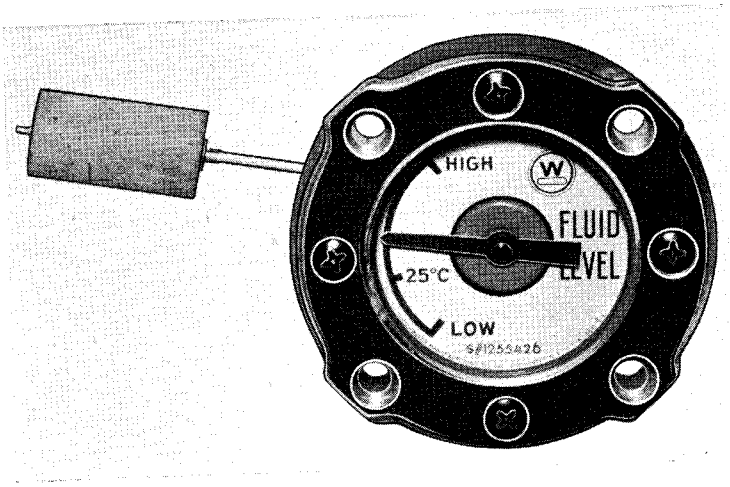

FIG. 1—MAGNETIC TYPE FLUID GAGE FLOAT DIRECT CONNECTED NEEDLE MOUNTED ON MAGNET

GENERAL

The magnetic type fluid gage permits the visible reading, from a reasonable distance, of the fluid level in oil or inerteen insulated apparatus. The gage consists of a magnet, attached to a float operated lever on the inside of the tank which in turn operates a magnetic needle in front of a non-magnetic dial plate to indicate the fluid level. The gage is weather proof and it is only necessary to maintain a tight joint, by means of a gasket, between the tank wall and the gage flange. The size of the magnetic type gage used is determined by the distance from which visible reading is desired, variation of fluid level, and clearances.

CONSTRUCTION AND OPERATION

The gage is constructed so that it is impossible for the fluid to reach or affect the scale on the etched dial. The float is limited in its travel to 15 degrees from the vertical in the "down" position to 15 degrees from the vertical in the extreme "up" position, for the direct connected float type and to 60° from the vertical in the "down" position to 50° from the vertical in the extreme "up" position for the gear connected float type. The complete gage with float attached can be withdrawn from the tank by removing the four mounting bolts.

If the tank is filled with fluid at any other average temperature than 25°C it must be filled to the level shown in Table 1 for the temperature, otherwise excessive pressure may be developed in sealed tank transformers or excessive breathing.

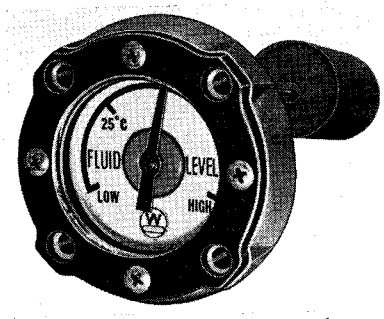

FIG. 2—MAGNETIC TYPE FLUID GAGE, FLOAT GEAR CONNECTED, NEEDLE MOUNTED ON MAGNET

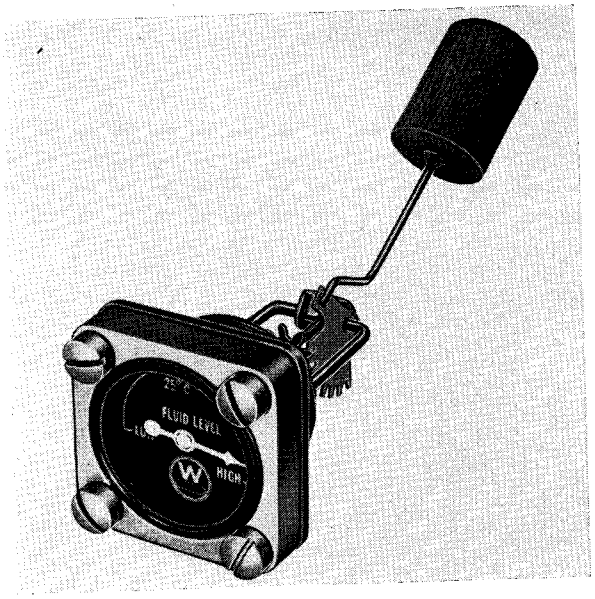

FIG. 3—MAGNETIC TYPE FLUID GAGE, FLOAT GEAR CONNECTED, MAGNETIZED NEEDLE

MAGNETIC TYPE FLUID GAGES—Continued

For Small Size Transformers

INSTRUCTIONS—Continued

Average Fluid Temp. °C.	Correct Filling Level. % of Scale, above or below 25°C.
85 High	100
70	75
55	50
40	25
25°C.	0
10	-50
-5 Low	-100

TABLE 1

INSTALLATION

The gage is usually shipped mounted in place on the transformer. If shipped separately or if a replacement is made, check operation of float over its entire range to see that it operates freely and that the pointer follows the movement of the float. The gage flange should be drawn up tightly against the gasket between it and the tank to make a tight joint.

MAINTENANCE

The gage will ordinarily require no attention.

If for some reason the gage becomes inoperative it should be replaced.

ORDERING INFORMATION

If a new gage is required, order from nearest Westinghouse Electric & Manufacturing Co. office giving style number of gage or stock order and serial number stamped on nameplate attached to the transformer tank.

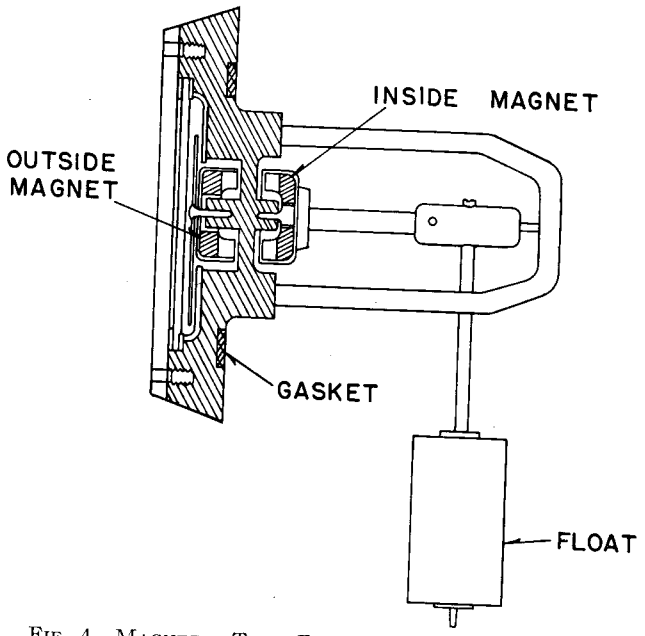

FIG. 4—MAGNETIC TYPE FLUID GAGE FOR SMALL SIZE TANK, NEEDLE MOUNTED ON MAGNET

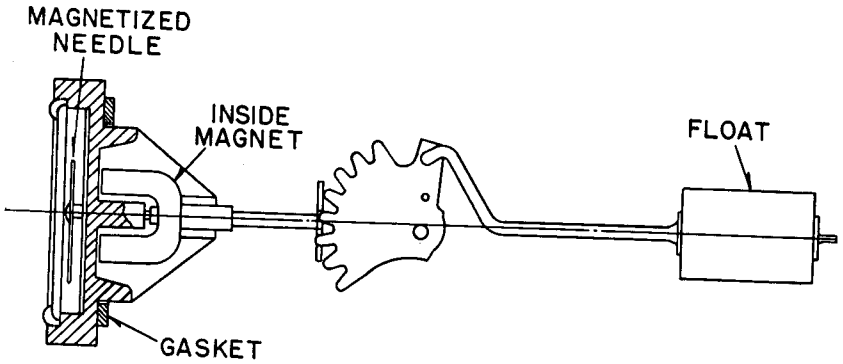

FIG. 5—MAGNETIC TYPE FLUID GAGE FOR SMALL SIZE TANK, MAGNETIZED NEEDLE

Westinghouse Press
Printed in U.S.A.

Westinghouse Electric & Manufacturing Company
Sharon, Pa.