Individual Radiator Valve for OISC Transformers

INSTRUCTIONS

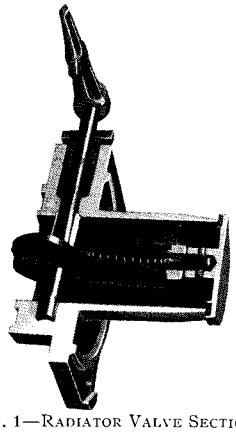

FIG. 1—RADIATOR VALVE SECTION

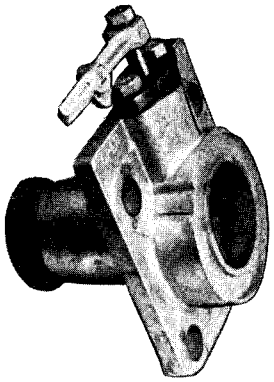

FIG. 2—RADIATOR VALVE

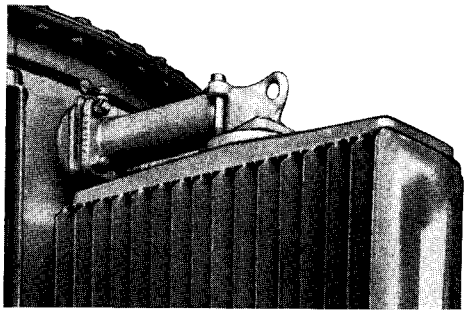

FIG. 3—WESTINGHOUSE RADIATOR WITH VALVE IN PLACE

GENERAL

The Westinghouse Individual Radiator Valve is a device designed to eliminate the necessity for draining oil from, and of refilling self-cooled radiator-type transformers when installing or removing radiators. The operating handle indicates the open and closed positions. A minimum of maintenance is required as it is only necessary to inspect the packing gland, around the operating handle, for leaks and tighten when necessary. During shipment the valve opening is closed by a blind flange if radiators are removed.

CONSTRUCTION

Figures 1 and 2 show the general appearance of the valve. During shipment the radiator is removed and a blind flange is bolted over the valve, which remains in place, as shown in Figure 4. Figure 3 shows a valve in place with radiator and radiator elbow. The valve is mounted on a steel fitting which is welded into the transformer tank. The fitting is recessed to match a similar recess for a gasket on the valve. Four studs and nuts hold the valve in place and the same studs are used to hold the blind flange or radiator against the valve. Gaskets between the valve and tank fitting and between the valve and radiator or blind flange make an oil tight joint. A stuffing box and packing around the operating shaft makes it oil tight.

OPERATION

The valve plunger is operated by the handle attached to a cam; see Figure 1. A depression on the end of the cam holds the valve securely in the open position, while a spring closes the valve and holds it in that position. A gasket on the valve seat and a non-rigid connection between the valve seat and plunger assure that the valve will be properly seated at all times.

The valve should remain open during normal transformer operation and, to prevent, if desired, any unauthorized manipulation, the handle can be removed when the valve is in the open position. It is closed for special reasons only, such as shipment of the transformer or radiator removal.

MAINTENANCE

Occasionally inspect the valve operating shaft and tighten the gland if necessary.

RENEWAL PARTS

It is not likely that renewal parts will be required but if so give description of part required and serial number with shop order or style number of transformer. Order from nearest Westinghouse Electric and Manufacturing Company Office or direct from the Sharon, Pa., Works.

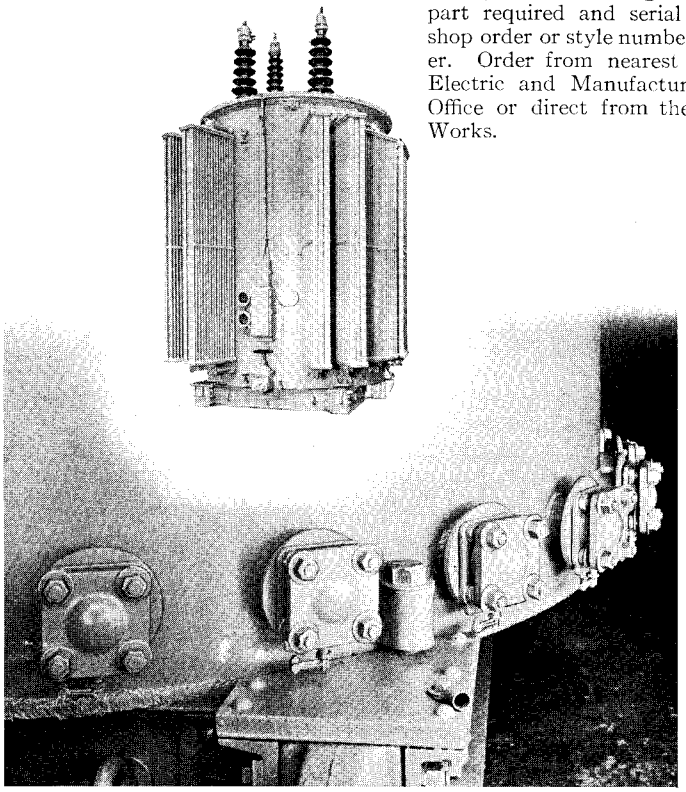

FIG. 4—TRANSFORMER TANK WITH BLIND FLANGE BOLTED OVER VALVE. IN INSERT, TRANSFORMER WITH RADIATORS IN PLACE.

Westinghouse Press
Printed in U.S.A. (Rep. 12-41)

Westinghouse Electric & Manufacturing Company
Sharon, Pa.