Neptune Meter Company

50 East 42nd Street, NEW YORK

Branch Offices

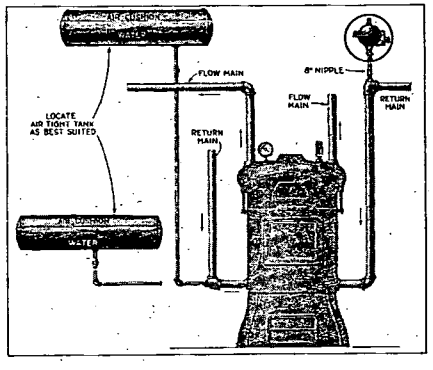
ATLANTA, GA.	1173 Virginia Avenue, N.E.	DENVER, COLO.	1700 Fifteenth Street
BOSTON, MASS.	141 Milk Street	LOS ANGELES, CAL.	701 East Third Street
CHICAGO, ILL.	130 North Jefferson Street	SAN FRANCISCO, CAL.	320 Market Street
ST. LOUIS, MO.	1912 Pine Street	PORTLAND, ORE.	474 Glisan Street

NEPTUNE METER CO., LIMITED, 345 Sorauren Avenue, Toronto, Ontario

RED TOP PRESSURE SYSTEM OF HOT WATER HEATING

This type of heating system is proving increasingly popular throughout the country. It is easily installed at a price which attracts the owner, builds good will for the heating engineer and allows a worthwhile profit.

Owners appreciate the high efficiency and the economy effected by the **Red Top Pressure System.**

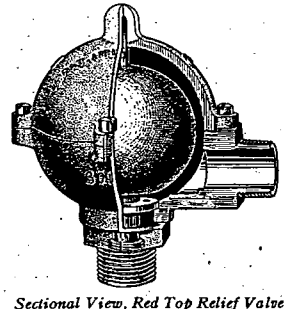


RED TOP RELIEF VALVE MODEL No. 2

This valve and an airtight expansion tank, to be located in the basement near the apparatus, are the only special pieces of equipment needed for the Red Top System.

Red Top Relief Valves act on the dead weight or gravity principle, and are approved by the Underwriters' Laboratories, Inc.

In the **Model No. 2** a special nickel weighted piston is forced off the seat when pressure reaches 30 pounds. Non-corrosive metal is used throughout, and there are no springs, levers or other complicated parts to get out of order. They are 6½ inches high, 5¾ inches wide, with inlet threaded for standard 1 inch fitting and male outlet threaded for 1 inch fitting.



Sectional View, Red Top Relief Valve Model No. 2

RED TOP MODEL No. 1 protects domestic hot water supply, and prevents range boiler explosions and other ruptures. It is made with inlet threaded for standard ½ inch pipe fitting and outlet drilled and tapped for ½ inch connection. It may be adjusted to relieve automatically at 50, 75, 100 and 130 lbs. pressure. Its measurements are 4½ inches high and 4 inches wide.

Thrush Differential Pressure Relief

H. A. Thrush & Company

Makers of Thrush System

Factory and Offices

Peru, Ind.

Thrush Automatic Damper Regulator

Thrush System comprises equipment to be added to any unregulated gravity hot water heating plant to make it a "Closed System" operating under slight added pressure and with automatic control of dampers.

Thrush Differential Pressure Relief Valve

A large flexible diaphragm which places a thrust against the Valve member making it certain that the Valve will open. Valve seat is at all times submerged in water, won't corrode because it has no contact with atmosphere. Dirt and sediment will not collect at the valve seat. Design is such that heavier solids fall away from seat. Regularly set to open at 26 lb. pressure for 1, 2 and 3 story buildings. For higher buildings, adjustments made at factory. Non-adjustable and not easily tampered with. No small restricted openings.

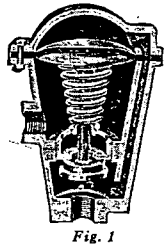


Fig. 1

Thrush Automatic Temperature Damper Regulator

Its operation depends upon the temperature change of the water circulating through the heating system and not upon pressure. Maintains different water temperatures by simple adjustment of sliding weights on lever. Multiple disc thermostat sets in dry well permitting easy inspection. A fuel saver. Easily connected with one short nipple as shown in Fig. 6.

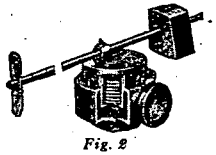


Fig. 2

Thrush Pressure Tank

Serves two purposes—conserves hot water and returns it to system—and being closed to the air, it maintains pressure on the system by compression and expansion of the air in the tank. **Thrush Tanks** are made of copper bearing steel, welded and tested, coated with enamel. Connect as shown in Fig. 6.

Fig. 3 Thrush Pressure Tank

Fig. 4

THRUSH THERMOMETER and SPECIAL GAUGE furnished with **Thrush System** simplify operation.

Fig. 5

Benefits of Thrush System of Hot Water Heating

Thrush Pressure System actually increases rate of heat transmission,—faster circulation and hotter radiators. Therefore lower water temperatures may be carried.

Installation is easy, requiring but 6 ft. of ¾ in. pipe and eight fittings. A further reduction of pipe sizes makes for lower cost and higher efficiency.

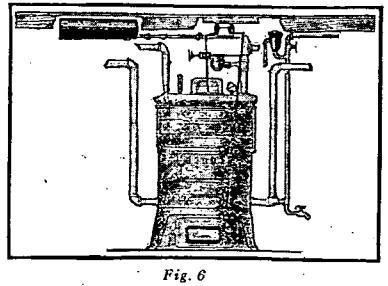


Fig. 6

DATA AND SPECIFICATIONS

CLASS "A" EQUIPMENT

Consists of *Thrush Automatic Temperature Damper Regulator, Differential Pressure Relief, Air Tight Pressure Tank, Special Gauge and Thermometer.*

CLASS "B" EQUIPMENT

Consists of *Thrush Differential Pressure Relief, Air Tight Pressure Tank, Special Gauge and Thermometer.*

SIZES

Size No. 0 up to 350 sq. ft. of radiation
Size No. 1 up to 750 sq. ft. of radiation
Size No. 2 up to 1250 sq. ft. of radiation
Size No. 3 up to 2000 sq. ft. of radiation

For larger job use additional pressure tanks of proper capacity.