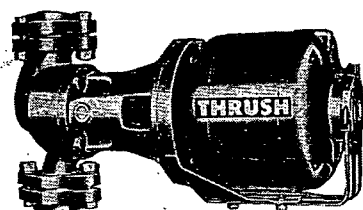


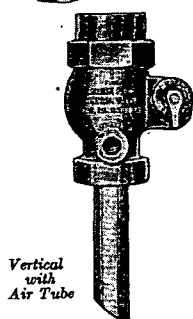
H. A. Thrush & Company

Peru, Indiana
Representatives in Principal Cities

FORCED CIRCULATING THRUSH FLOW CONTROL SYSTEM OF HOT WATER HEATING AND HEATING SPECIALTIES



Horizontal Water Circulator



Vertical with Air Tube

THRUSH WATER CIRCULATORS

Forced circulating pumps for Hot Water Heating and Domestic Water Systems. Insure uniform heating. Quiet and efficient, long lived and vibration-free. Sealed-in lubrication. Made in 7 sizes, $\frac{3}{4}$ in., 1 in., $1\frac{1}{4}$ in., $1\frac{1}{2}$ in., 2 in., $2\frac{1}{2}$ in., and 3 in. Hi-Head Horizontal Thrush Water Circulators, designed for use with radiant baseboards, convectors, radiant panels, etc., which require higher heads, are also available in 1 in., $1\frac{1}{4}$ in., and $1\frac{1}{2}$ in. sizes.

THRUSH FLOW CONTROL VALVES

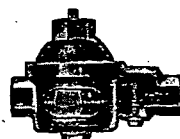
Special check valves for use on automatically fired boilers, automatically control circulation when installed with a Thrush Circulator. Close tight when circulator is not running, prevent gravity circulation when heat is not needed in the radiators. Available with Air Tube which vents air from boiler into pressure tank, greatly improving heating efficiency by eliminating air from the system. 1 in. through $1\frac{1}{2}$ in. valves also available with solder type outlet unions. Also made in angle type with or without air tube and in horizontal type for zoning. Made in six sizes, 1 in., $1\frac{1}{4}$ in., $1\frac{1}{2}$ in., 2 in., $2\frac{1}{2}$ in. and 3 in.



Thrush Pressure Tank With Vacuum Breaker

THRUSH PRESSURE TANKS NOW HAVE VACUUM BREAKER

Genuine Thrush Pressure Tanks are air tight... tested under pressure... and equipped with the convenient Thrush Vacuum Breaker at no extra cost. Easy to drain if waterlogged.



No. 18— $\frac{3}{4}$ in. Automatic Filling Valve



No. 4 Bronze or Iron $\frac{1}{2}$ in. $\frac{3}{4}$ in. and 1 in.

THRUSH AUTOMATIC FILLING VALVES AND LOW PRESSURE RELIEF VALVES

Whenever system pressure drops below 12 lbs. city water pressure will automatically open the Thrush Automatic Filling Valve and admit water until the system is filled.

Thrush Relief Valves protect heating boilers from excess pressures. Large metal diaphragm assures positive closing and opening.



ASME APPROVED NO. 46 THRUSH SAFETY RELIEF VALVE FOR HOT WATER HEATING SYSTEMS

Rated output of 283,500 Btu based on steam capacity discharge. Primarily a water relief valve designed to serve double duty of relieving water, as well as steam should critically high temperatures occur. Testing lever. 30 lbs pressure. $\frac{3}{4}$ in. inlet, 1 in. outlet.



No. 75



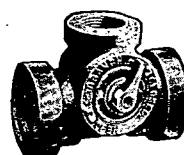
No. 76

NO. 75 THRUSH HIGH PRESSURE WATER RELIEF VALVES

To protect hot water heaters, range boilers and automatic water heaters from excess pressure. Factory setting 85 lb. Adjustable at factory to 150 lb maximum.

NO. 76 HIGH PRESSURE AND TEMPERATURE RELIEF VALVES

The valve illustrated above at right has an added safety feature. It not only guards against excessive pressures, but also relieves if excessive temperatures develop. A fusible element melts at 210 F. Both types are designed for use in the hot water outlet line.



C. I. Patent No. 2,404,998 —Bronze Patent No. 2,598,148

ADJUSTABLE THRUSH SUPPLY TEES FOR ONE PIPE SYSTEMS

Provide exact balancing of forced circulating one-pipe hot water heating systems. Easily adjusted. When branch flow is cut down main flow is increased, not retarded. Available in bronze with solder connections for use with copper pipe and in threaded cast iron for steel pipe. Non-adjustable tees also available.

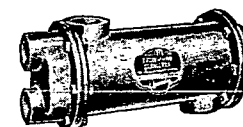
NO. 5 HOT WATER AIR VALVE

An inexpensive, dependable, automatic air vent for Hot Water coils, convectors, radiators, unit heaters, and high points of mains. Tapping $\frac{1}{8}$ in., I.P.T.

THRUSH TANK DRAIN

Combines Drain Valve and Vacuum Breaker in one handy, inexpensive fitting. Removing plug admits air to permit quick draining of waterlogged tank.

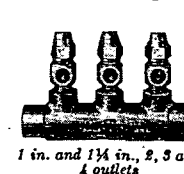
WRITE FOR NEW CONDENSED CATALOG



Patent No. 2,180,620

THRUSH WATER HEATERS

Highly efficient heat exchangers or converters. Fifteen sizes, for Hot Water or Steam. Pressure up to 150 lb water, 50 lb steam. Straight tubes readily cleanable. Provide Domestic Hot Water at low cost. Also used industrially for heating or cooling liquids.



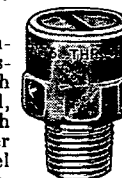
1 in. and $1\frac{1}{4}$ in., 2, 3 and 4 outlets



$\frac{3}{8}$ in. or $\frac{1}{2}$ in.

THRUSH MANIFOLDS AND BALANCING VALVES

Thrush Manifolds save time, space and labor installing Radiant Heating. Available in 1 in. and $1\frac{1}{4}$ in. sizes, each with two, three or four $\frac{3}{8}$ in. or $\frac{1}{2}$ in. threaded branch outlets. Also available in $1\frac{1}{4}$ in. and $1\frac{1}{2}$ in. sizes with three or five $\frac{3}{4}$ in. solder branch connections. Ends have solder connections. Manifold with Balancing Valves as shown above is used in return lines only. Used in supply lines without valves. Balancing Valves permit individual filling of each coil, eliminate air quickly and save time. Two types, three sizes, $\frac{3}{8}$ in., $\frac{1}{2}$ in. or $\frac{3}{4}$ in. Flared fittings for $\frac{3}{8}$ in. and $\frac{1}{2}$ in. tubing.



No. 5 Thrush Air Valve 18 in. Box



Thrush Tank Drain