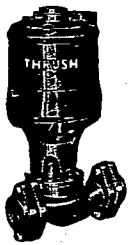
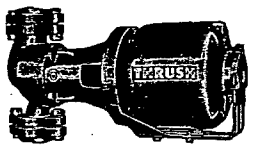
H. A. Thrush & Company

Peru, Indiana

QUALITY HYDRONIC HEATING SPECIALTIES



Vertical Water Circulator



Horizontal Water Circulator

THRUSH WATER CIRCULATORS

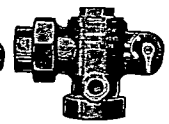
Forced circulating pumps for Hot Water Heating and Domestic Water Systems. Insure uniform heating. Quiet and efficient, long lived and vibration-free. Sealed-in lubrication. Vertical and horizontal are made in seven sizes, ¾ in., 1 in., 1¼ in., 1½ in., 2 in., 2½ in. and 3 in. Hi-Head Vertical and Horizontal Thrush Water Circulators, designed for use with radiant baseboards, convectors, radiant panels, etc., which require higher heads, are also available in ¾ in., 1 in., 1¼ in. and 1½ in. sizes. Horizontal Thrush Water Circulators are also available with Bronze body in ¾ in. through 1½ in.

THRUSH FLOW CONTROL VALVES

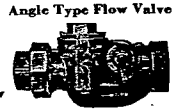
Special check valves for use with automatically fired boilers, automatically control circulation when installed with a Thrush Circulator. Close tight when Circulator is not running, prevent gravity circulation when heat is not needed in the radiators. This permits maintaining boiler water temperature high enough to heat domestic water, winter and summer, without overheating the building. 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 1½ in. valves also available with solder type outlet unions. Also made in angle type with or without air tube. Six sizes in Angle or Vertical types, 1 in., 1¼ in., 1½ in., 2 in., 2½ in. and 3 in. Horizontal Thrush Flow Control Valves, 1 in. through 2 in. sizes, are recommended for zoned systems and installations where head room makes it necessary to keep mains low.



Vertical Flow Valve with Air Tube



Angle Type Flow Valve

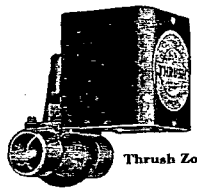


Horizontal Flow Valve

THRUSH ZONE VALVES

Thrush Zone Valves for multiple zoned hot water heating or cooling systems make possible extra zoning at very slight cost. It is no longer necessary to use several Circulators, Flow Control Valves and relay transformers. Each Zone Valve is controlled by a room thermostat and any zone starts and stops the one Thrush Circulator through one relay transformer.

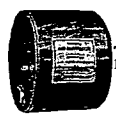
Thrush Zone Valves have a handy manual control, enclosed dust-proof switches and a quiet, rugged, synchronous motor. Valve assembly can be mounted in any of several positions. All metal parts in contact with water are noncorrosive and the heat-resistant, non-sticking composition seat closes tightly, eliminating costly overheating.



Thrush Zone Valve

THRUSH AIR ELIMINATOR

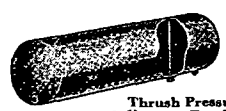
Thrush Air Eliminator Tank collects and removes air from water in the heating system. Air in the water moves with circulation and will be trapped and released in the Eliminator preventing its interfering with circulation. Designed primarily for floor and ceiling panel systems, it can also be used with baseboards, convectors or radiators. Made in seven sizes, all with 1 in., 1¼ in. or 1½ in. tappings.



Thrush Air Eliminator Tanks

THRUSH PRESSURE TANKS NOW HAVE VACUUM BREAKER

Thrush Pressure Tanks are made of heavy welded steel shells and heads and are guaranteed to be air tight. Each Thrush Pressure Tank comes equipped with a Thrush Vacuum Breaker at no extra cost. Makes tank draining simple and quick. It is only necessary to close valve in tank line, open drain and unscrew vacuum breaker.

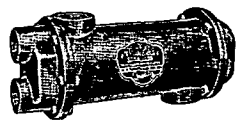


Thrush Pressure Tanks With Vacuum Breaker

THRUSH HEAT EXCHANGERS

Highly efficient heat exchangers or converters. Provide Domestic Hot Water at low cost. Also used industrially for heating or cooling liquids. Fourteen sizes, for Hot Water or Steam. Pressure up to 125 lb for water, 50 lb for steam.

Constructed with heavy cast iron shells and straight seamless copper tubes. Both heads are removable for inspection of tubes and for easy cleaning.



Thrush Heat Exchanger

H. A. Thrush & Company

Peru, Indiana

V UV NB



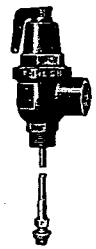
No. 38 Low Pressure
No. 81 High Pressure



No. 46 – 233,500 BTU

ASME RELIEF VALVES

No. 38 and No. 46 Thrush Low Pressure Relief Valves provide safe pressure relief for hot water heating systems. No. 81 Thrush High Pressure Relief Valve is for domestic water heating. These valves feature all brass working parts and heat-resistant, non-sticking, silicone seats. The spring is protected from water at all times. They are designed to close tightly once the critical pressure has been reduced. Built to comply with ASME and National Board requirements.



No. 170M - 170F AUTOMATIC RESEATING TEMPERATURE AND PRESSURE RELIEF VALVES

No. 170 Relief Valve gives positive temperature and pressure protection for domestic water heaters. Automatically closes tightly after relieving when the temperature in the heater drops below 210° F. It is available with male inlet (170M) or female inlet (170F) and with 6 in. stem or short stem. This brass relief valve has a heat-resistant, non-sticking silicone seat and a water seal protects the spring at all times. Meets ASA Z21.221958 Standard and 1959 F.H.A. Requirements.

A.G.A. LISTED
UP TO 105,000 BTU INPUT
A.S.M.E. TESTED

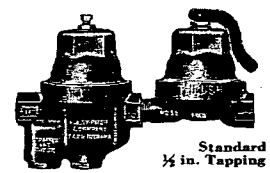
SIZES

170M ¾ in. Male Inlet, ¾ in. Female Outlet, 6-inch stem length.
170MS ¾ in. Male Inlet, ¾ in. Female Outlet, 1⅛ in. stem length.
170F ¾ in. Female Inlet, ¾ in. Female Outlet, 6-inch stem length.

PRESSURE REGULATING VALVES



No. 12—¾ in.



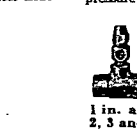
Standard ½ in. Tapping

Thrush Water Pressure Regulating Valves or Pressure Reducing Valves protect all fixtures and appliances and reduce water hammer by providing correct pressures. Essential on large dishwasher installations. Operate with incoming pressures up to 250 pounds and up to 100 pounds reduced pressures. Made in iron or brass, ½ inch, ¾ inch and 1 inch sizes. Also made in low pressure for hot water heating systems.

DUAL CONTROL UNITS

Thrush Dual Control Units provide automatic filling and pressure relief for hot water heating systems. Proper water supply and working pressures in boiler maintained automatically. All have built-in strainers and check to prevent back flow from system. Low in cost, safe and dependable. Made in four types, all with brass working parts. Adjustable pressure setting. ½ in., and ¾ in. sizes.





1 in. and 1¼ in., 2, 3 and 4 outlets

⅜ in. or ½ in.

Adjustable Supply Tees for One Pipe Systems

Provide exact balancing of forced circulating one-pipe hot water heating systems. Available in bronze with solder connections for use with copper pipe and in threaded cast iron for steel pipe. Non-adjustable tees also available.



Thrush Twin-L Balancers

Used to join two supply or two return branch mains into one common main. Handy lever permits balancing of circulation in each circuit easily and quickly. Saves ten fittings commonly used to accomplish this. Available in cast iron or bronze in three sizes.

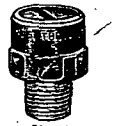
THRUSH MANIFOLDS AND BALANCING VALVES

Thrush Manifolds save time, space and labor installing Radiant Heating. Available in 1 in. and 1¼ in. sizes, each with two, three or four ⅜ in. or ½ in. threaded branch outlets. Also available in 1¼ in. and 1½ in. sizes with three or five ¾ 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, ⅜ in., ½ in. or ¾ in. Flared coil fittings for ⅜ in. and ½ in. tubing, ¾ in. has solder connections.

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 ⅛ in., IPT.



No. 5 Thrush Air Valve 12 in Box

THRUSH TANK DRAIN

Combines Drain Valve, Tank Shut-off Valve and Vacuum Breaker in one handy, inexpensive fitting. Removing plug admits air to permit quick draining of water logged tank.



No. 2 Thrush Tank Drain

Write For New Condensed Catalog