

Illinois Engineering Company

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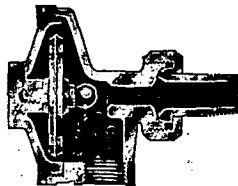
PRODUCTS—Illinois Heating Systems—Eclipse Steam Specialties

Illinois Heating Systems

Successfully installed in thousands of buildings—the result of over 25 years of special work in this line, and the ultimate in efficiency and economy.

Illinois Thermo Trap

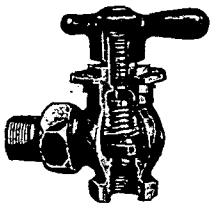
The original vertical seat trap. Dirt does not lie on seat—self cleaning, non-adjustable, positive in operation; durable, will stand 50 lb. steam pressure which shows the great strength of the diaphragm, which is the reason for the long life and durability of these Traps. Thousands in operation for over 15 years without diaphragm replacements.



Thermo Trap

Illinois Modulating Supply Valve

Quick Opening—only a half turn of handle from open to closed position. Packless, Bakelite handle, steam tight on 50 lbs. pressure. Large diameter of thread spool and machine cut threads make valve easy of operation.



Modulating Valve

The improved Bakelite handle insulates the hand from heat. The graduated dial shows the open or closed or any position of the valve. Furnished with Lock Shield and Key, or with Bakelite Wheel handle, upon order.

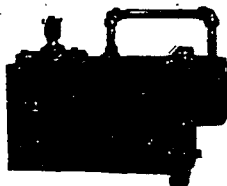
Illinois Vapor Systems

Illinois Vapor Systems are capable of operating automatically on any pressures possible in a low pressure heating system—from 10 lb. to 20 in. of vacuum. Our improved equipment actually insures operation under vapor—less than atmospheric

pressure—with only two or three firing periods per 24 hrs. The advantages are healthful, modulated heat, and a fuel saving of 25-30 per cent over other systems of heating. This result is secured by the ILLINOIS HEAT RETAINER—Browne Patent, a device which marks an epoch in the heating art.

Illinois Heat Retainer

This improved device not only vents air from the System on $\frac{1}{8}$ oz. pressure, but it absolutely prevents air pulling back into the System, thus allowing the System to remain under vacuum for hours at a time.



Illinois Heat Retainer

No dirt or scale can reach the valve of the Retainer, and even the air passing through same is washed, so this device will remain in operative condition over long periods. Our Bulletin No. 22, describes the operation in detail—Copy sent upon request.

Illinois Return Trap or Alternating Receiver

This device automatically puts the water back in the boiler against any boiler pressure possible in a low pressure heating system. The float trips the weights which in turn positively operate the valves. The operation is forceful and positive and this mechanism cannot be caught on dead centre by water half filling the tank. No external parts to be adjusted or tampered with. No stuffing boxes—all working parts enclosed in the tank.



Illinois Return Trap

Our Sales-Engineering Organization will be glad to give detailed technical information regarding our products and to advise as to their proper installation.

ILLINOIS PRODUCTS—Eclipse Steam Specialties

Eclipse Steam Specialties

The old John Davis Co. Eclipse Steam Specialties have been on the market for over 40 years, and embody the improvements and refinements suggested by this long period of service. These Specialties are quality products, having bronze and monel metal pistons, seat rings and valve parts, the bodies are extra heavy, and every piece of apparatus is carefully steam tested—under working pressure where same is given—before shipment.

Pressure Reducing Valves, for all pressures and services.

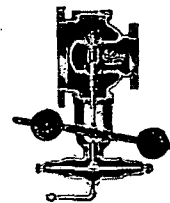
Back Pressure, and Atmospheric Relief Valves, Separators, Oil and Steam, Cast Iron and Steel.

Steam Traps, all pressures.

Non-Return or Stop and Check Valves.

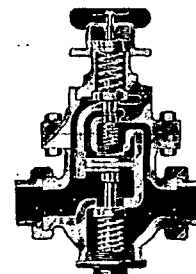
Pump Governors, Balanced Valves.

Float Valves, Expansion Joints, Pipe Strainers.

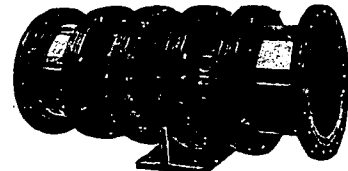


Reducing Valve

Eclipse Master Reducing Valve



Illinois Expansion Joints—Single and Double Traverse



Heavy duty joints, the liners are cast bronze—not brass tubing. The bolts are through bolts, no stud bolts used.

Tapped for service connections in anchor section if desired.

Reducing Valves. In general use on Vacuum or low pressure Heating Systems. Will reduce to 4 oz. pressure from even 150 lb. initial pressure.

The large diaphragm insures sensitive operation.

Made in both straight-way and expanded outlet bodies.

Sizes $\frac{1}{4}$ in. to 12 in.

A pilot type valve will reduce from any pressure up to 250 lb. down to 10 lb. and hold reduced pressure constant at all times—even against a “dead end” pipe.

Made of Bronze with monel valves and trimmings.

Sizes $\frac{1}{4}$ in. to 6 in.

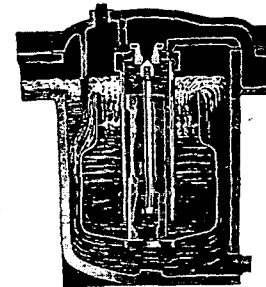
Catalog and Bulletins—Illinois Heating Systems—144 pages

BULLETINS

No. 12—Heating Specialties.
No. 22—Vapor System Details.
No. 45—Non-Return Valves

No. 102—Pressure Reducing Valves.
No. 202—Back Pressure, and Relief Valves, Exhaust Heads.
No. 302—Steam Traps.
No. 502—Separators—Oil and Steam.
No. 703—Float and Balanced Valves.

Eclipse Steam Trap (Patent Applied for)



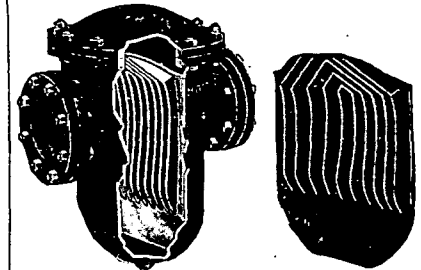
Something new in Steam trap design. The valve and stem are separate from the bucket and only operated by the bucket at its extreme top and bottom travel—Result—

Valve is always either full open or tight closed.

No wire drawing or cutting of valve and seat, which are of Monel metal.

Steam tight and long lasting. Bulletin No. 302 describes in detail.

Horizontal Oil Separator

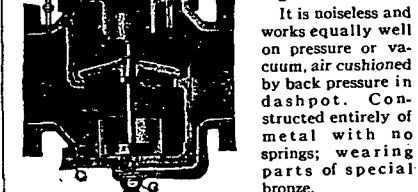


These Separators have a baffle removable without disturbing the piping. Occasional cleaning is necessary for proper elimination of oil.

The port areas are over 3 times the diameter of the pipe area, hence these separators are effective.

Eclipse Back Pressure and Combination Relief Valves

Made in Vertical and Horizontal types, straight-way or angle pattern, for condensing and non-condensing engines.



Size 4 in. to 36 in.