

ALL METAL—NON-ADJUSTABLE—THERMOSTATIC

The No. 1 Hoffman Siphon Air Valve is designed for systems of the one-pipe gravity type, to vent all air from radiators without loss of steam. After contact of water with the valve the siphon drains all water from the valve and venting occurs without the slightest "spit" even if the radiator is under pressure.

Radiator connection, $\frac{1}{8}$ in. Maximum guaranteed operating pressure, 10 lb.

The No. 2 Siphon Air and Vacuum Valve is similar in construction to the No. 1, but in addition, when the radiator is once freed from air, return of air through the vent port is prevented. Through its use an ordinary one-pipe steam system may be changed into a vacuum type. See page 506.

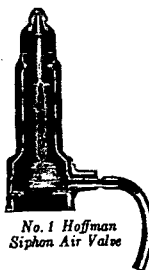
Radiator connection, $\frac{1}{8}$ in. Maximum guaranteed operating pressure, 10 lb.

The No. 3 Hoffman Air Line Valve is specially designed for Air Line, or as they are frequently termed "Paul" Systems. It is sensitive in action and closes the instant steam fills the radiator.

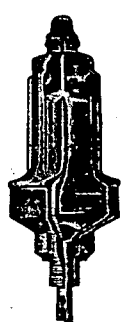
Radiator connection, $\frac{1}{8}$ in.; Air Line connection, $\frac{1}{4}$ in. Maximum guaranteed operating pressure, 10 lb.

The No. 4 is used in venting mains, risers, vento stacks, coils, etc. All air is freely vented through a $\frac{1}{8}$ in. vent port without steam loss, but valve does not close against water.

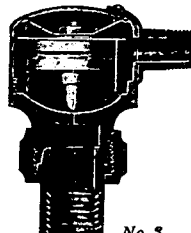
Standard connection, $\frac{1}{4}$ in., can also be supplied with $\frac{1}{2}$ in. connection. Maximum guaranteed operating pressure, 10 lb.



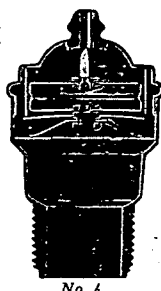
No. 1 Hoffman
Siphon Air Valve



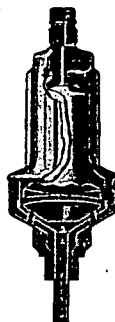
No. 5



No. 3



No. 4



No. 6



No. 10

The No. 5 is particularly adapted for use in venting: Ends of steam mains; Ends of dry return mains; Indirect radiators; Blast or "Vento" stacks; Hot-water generators; Dryers and drums, etc.

The basic principle is the same as the No. 1 Valve, having separate channels for air and water which are only found in Hoffman Valves.

Pipe connection, $\frac{1}{2}$ in.; vent port for less than 3 lb. is $\frac{1}{8}$ in.; for 3 lb. and over is $\frac{1}{4}$ in. Unless otherwise ordered, will be shipped with $\frac{1}{4}$ in. port. Maximum guaranteed operating pressure, 10 lb.

The No. 6 is similar in design and application to the No. 5 with the additional feature of the Air Check or Vacuum starter above vent port and vacuum diaphragm in base.

Pipe connection, $\frac{1}{2}$ in.; vent port for less than 3 lb. is $\frac{1}{8}$ in.; for 3 lb. and over is $\frac{1}{4}$ in. Unless otherwise ordered, will be shipped with $\frac{1}{4}$ in. port. Maximum guaranteed operating pressure, 10 lb.

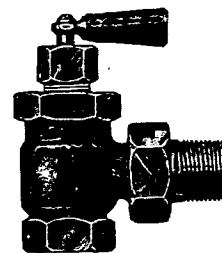
The No. 10 Hoffman Vapor Valve is used for venting the return mains in vapor systems or for other conditions where a large venting capacity is required. The vent port is $\frac{3}{4}$ in. in diameter.

Pipe connection, $\frac{1}{4}$ in. Maximum guaranteed operating pressure, 15 lb.

The No. 11 Hoffman Vapor Vacuum Valve is similar in construction and application to the No. 10 valve with the addition of a vacuum check on the vent port which prevents the return of air to the system through the vent port.

Pipe connection, $\frac{1}{4}$ in. Maximum guaranteed operating pressure, 15 lb.

Write for Descriptive Circular—The Watchman of the Coal Pile



The No. 17 Hoffman
Radiator Valve

VALVE BODY AND TAIL PIECE—Casting of First Quality Steam Metal.

BONNET—Hot Brass Forging.

STUFFING NUT—Rod Brass.

STEM—Drawn Brass Rod.

LEVER HANDLE—Hard Black Fibre.

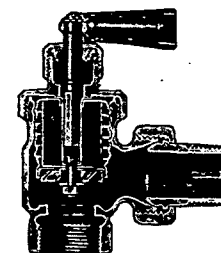
DISC HOLDER—Drawn Brass Shell.

DISC—Genuine Jenkins Bros.

PACKING—Special Metallic Fibre.

FINISH—Rough Body, Nickel-Plated.

Made in $\frac{3}{4}$ in. size only. Capacity 200 sq. ft. C. I. Radiation.

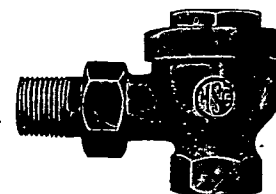


The No. 17 Hoffman
Radiator Valve

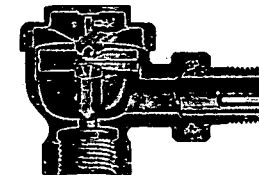
No. 17 Hoffman Radiator Valve (Quick Opening Valve)

This valve is made in $\frac{3}{4}$ in. size only, suitable for radiators up to 200 sq. ft.

The valve may be turned from open to shut position or vice versa, with one turn of the lever handle. The valve action is very free, with little friction due to the novel construction of the disc holder and its extension or lead screw for raising and lowering the disc.



Interchangeable
Thermo Member



Sectional View

No. 18 Hoffman Return Line Radiator Trap

The thermostat consists of one chamber made by two diaphragms separated by a space ring to which they are fastened. In the center of the bottom diaphragm, the valve pin is attached, the joint being expanded and made absolutely tight. The thermostat is held in its cage by a pin expanded and attached to the top diaphragm, this pin extending through the cage and engaging with the boss on the cap.

The thermostat contains a small quantity of thermostatic fluid, sealed under vacuum insuring extremely sensitive valve action. The fluid is such that its pressure maintains constant relationship with steam pressure and consistency of valve operation under varying pressure is thus obtained.

Chief Features

The valve consistently operates under a pressure range from vacuum to 15 lbs. steam pressure. Water at a temperature of approximately 12 deg. less than the temperature corresponding to the steam pressure causes full valve opening and free discharge of condensation.

These valves are absolutely non-adjustable and thermostats can be changed from one body to another.

The No. 18 Valve is made in $\frac{1}{2}$ in. size only in Angle, Straightway, Right and Left-hand and Offset Patterns. Normal capacity is 100 sq. ft. of direct cast iron radiation, port diameter $\frac{1}{4}$ in. in all sizes, operating pressure from vacuum to 15 lbs.

Write for Descriptive Circulars