

Hoffman Specialty Co., Inc.

Waterbury, Conn.

Sales Representatives in Principal Cities

HOFFMAN VALVES and CONTROLLED HEAT EQUIPMENT

HOFFMAN VENTING VALVES

In the Hoffman line there is a specially designed venting valve for every type of steam heating system. The basic principle used in the design of all Hoffman venting valves is that of an all-metal thermostatic member, containing a volatile or heat sensitive fluid which causes valve action upon slight temperature changes.

Hoffman valves have a wide pressure range in which they operate with the same degree of accuracy, for the internal fluid pressure in the thermostatic member maintains a constant relationship with the external steam pressures throughout the whole range of pressure for which each valve is intended.

Hoffman valves are automatic, non-adjustable and (except Nos. 20 and 21) are guaranteed to properly function for a period of five years from date of installation when installed and operated under normal conditions for which designed.

VENTING VALVES FOR ONE-PIPE SYSTEMS.

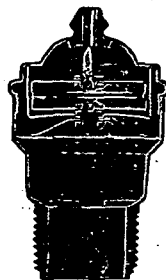
ALL METAL—NON-ADJUSTABLE—THERMOSTATIC

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. 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, $\frac{3}{4}$ in., can also be supplied with $\frac{1}{4}$ in. connection. Maximum guaranteed operating pressure, 10 lb.



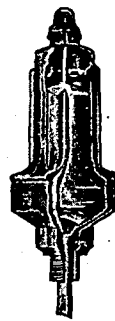
No. 4

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

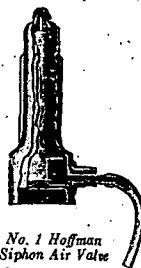
The basic principle is the same as the No. 1 Valve, having separate channels for air and water which are only found in Hoffman Valves.

Pipe connection, $\frac{3}{8}$ 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 $\frac{1}{8}$ in. port. Maximum guaranteed operating pressure, 10 lb.

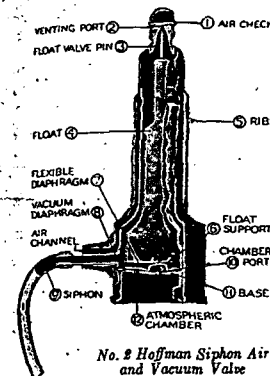
Write for Descriptive Circular—
The Watchman of the Coal Pile



No. 5

No. 1 Hoffman
Siphon Air Valve

VENTING VALVES FOR ONE-PIPE VACUUM SYSTEMS

No. 2 Hoffman Siphon Air
and Vacuum Valve

In construction, the No. 2 Valve is similar to the No. 1 with the addition of a vacuum diaphragm in the base and an air check over vent port.

Upon steam contact, float diaphragm (7) expands, closing port (2). When pressure goes below atmosphere vacuum diaphragm (8) follows up contracting float diaphragm, maintaining port closed against air intake.

Air check (1) functions only in the case of a half-hot radiator when float diaphragm (7) is not expanded by steam contact. With a cessation of steam generation, air check holds port closed against air intake until pressure goes below atmosphere and when a 1 in. vacuum forms diaphragm (8) expands, closing port, relieving air check of any further function.

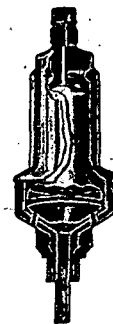
The superiority of the diaphragm controlled port compared with valves having air check only is indicated by the fact that the total pressure exerted in holding vent port closed is approximately 20 times greater than that exerted in maintaining an air check closed.

This greater pressure, exerted by the vacuum diaphragm holds the valve pin more tightly against its seat and also aids in crushing or pushing away dirt particles which might be caught between the valve pin and its seat.

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

The No. 6 Float Air and Vacuum Valve 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. Used for venting ends of mains, vento stacks, etc., where water is liable to be present.

Pipe connection, $\frac{3}{8}$ in.; vent port for less than 3 lb. is $\frac{3}{16}$ in.; for 3 lb. and over is $\frac{1}{4}$ in. Unless otherwise ordered, will be shipped with $\frac{1}{8}$ in. port. Maximum guaranteed operating pressure, 10 lb.



No. 6

The No. 16 Air and Vacuum Valve is used for venting ends of steam and dry return mains. Valve is $3\frac{3}{4}$ in. high overall, permitting installation in lines close to ceiling. It has the special Hoffman feature, the combined air check and vacuum diaphragm for preventing return of air to system. Pipe connection, $\frac{3}{4}$ in. Vent port $\frac{1}{8}$ in. dia. Maximum operating pressure, 10 lb.



No. 16

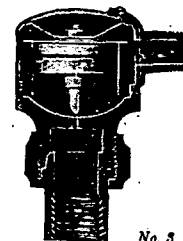
The No. 3 Hoffman Air Line Valve is specially designed for Air Line, or as they are frequently termed "Paul" Systems. It is sensitive in action and closes the instant steam fills the radiator. Radiator connection, $\frac{1}{8}$ in.; Air Line connection, $\frac{1}{4}$ in. Maximum guaranteed operating pressure, 10 lb.

THE HOFFMAN VALVE LOCK

Prevents theft of No. 1 and No. 2 valves in public buildings, etc. No extra tapping is required as lock is easily applied when valve is inserted in radiator. By using set screws, valve is locked in position and can only be removed by a special key.



Hoffman Valve Lock



No. 3

Write for Descriptive Circular—Locking the Door Against the Heat Thief