# Mason Regulator Company

Dorchester Center

**Boston, Massachusetts**

**Branches in Principal Cities**

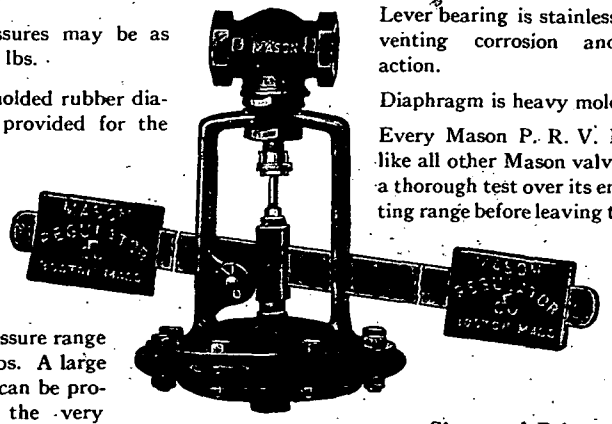
## Mason Lever-and-Weight P. R. V. No. 236-A

**Application—**

Mason No. 236-A Pressure Reducing Valve is widely employed in heating systems requiring accurate regulation at low pressures.

Initial pressures may be as high as 150 lbs.

A special molded rubber diaphragm is provided for the reduced pressure range of 2 to 15 lbs. A large diaphragm can be provided for the very delicate regulation, in ounces, of reduced pressures below 3 lbs.



All castings are heat treated to prevent distortion.

Stuffing box and valve stem are designed for minimum friction.

Lever bearing is stainless steel, preventing corrosion and sluggish action.

Diaphragm is heavy molded rubber.

Every Mason P. R. V. No. 236-A, like all other Mason valves, is given a thorough test over its entire operating range before leaving the factory.

**Operation—**

Mason P. R. V. No. 236-A is particularly adapted for low pressure systems in which the initial pressure may at times fall below the set reduced pressure. The valve is normally open; it closes only when the reduced pressure rises to the set limit and, working against the diaphragm, balances the weight-and-lever system.

**Construction—**

Main valve, valve seats, and valve body made of hard steam bronze, machined to extremely close limits to assure permanent alignment and fit. Positive clearance.

**Sizes and Prices**

| Sizes | 7½ In. Diaphragm for Reduced Pressures 2 to 15 Lbs. | 11 In. Diaphragm for Reduced Pressures 0 to 3 Lbs. |
|---|---|---|
| ½" | $28.50 | $35.50 |
| ¾" | 31.00 | 38.00 |
| 1" | 35.50 | 42.50 |
| 1¼" | 39.50 | 46.50 |
| 1½" | 44.00 | 51.00 |
| 2" to 6" | On Application | On Application |

**Send for Catalogs—**

For complete descriptions of Mason P. R. V. No. 236-A and other Mason reducing and vacuum regulating valves, address the factory, or your Mason distributor.





# JAS. P. MARSH & COMPANY

FOUNDED IN 1865

2073 Southport Avenue, Chicago, Ill.

**Branches**

551 Fifth Avenue, New York, N. Y.
Bendix Building, Los Angeles, Cal.
2539 Pennsylvania Ave., Washington, D. C.

**In Canada:** The Jas. Morrison Brass Mfg. Co., Ltd., Toronto, Ont.

**Sales Offices in Principal Cities**

Marsh Units | Marsh Systems | Marsh Instruments

## The Company

Jas. P. Marsh & Company have been manufacturers of heating equipment and precision instruments for 66 years. These pages include brief descriptions of the Marsh System Units for installation on the heating systems noted on this page; medium pressure specialties, gauges and instrument panels.

## The Marsh Weather Compensating System

Marsh Weather Compensating System of Heating

The Marsh Weather Compensating System of Heating is based upon well known principles. Modern apparatus and application of these principles comprise the means of effecting absolute control of heat output as required. (1) Temperature at which water boils depends entirely on the pressure exerted upon it. Likewise, volume of steam depends upon pressure, whether from an outside source or its own generation. The amount of heat required to generate steam and the consequent heat output of a given volume of steam varies with the pressure (or vacuum). (2) A radiator or other condensing unit can assume steam only as the air and non-condensable gases, which accumulate are purged. By controllably limiting the flow of these gases from the radiator the amount of steam entering the radiator is varied in proportion to the increase or decrease of pressure (or vacuum) in the system. The Marsh Weather Compensating System has such flexible features that the volume and temperature of steam delivered to the radiators are directly proportioned to correspond with the heat demand required for prevailing weather conditions. In its construction aspects, it is similar to the two-pipe vacuum system. Steam is supplied either by means of a boiler or from an outside source. A vacuum pump is employed to create circulation and to withdraw air and condensate.

The Marsh Compensating Supply Control is placed in the supply mains. This control governs the pressure (or vacuum) and regulates the amount and temperature of the steam distributed throughout the system.

Each radiator is controlled by a Marsh Compensating Radiator Trap. This trap operates to pass all water of condensate and to retain within the radiator, steam at all temperatures and pressures and to controllably limit the portion of the radiator available for steam by entraining the air and non-condensable gases in quantities which are varied by the pressures (vacuum) within the radiator.

## The Marsh Standard Vacuum System of Heating

The Marsh Standard Vacuum System of Heating is a two-pipe system especially adaptable to larger buildings. It circulates steam at low pressures from a boiler, central station or by utilizing exhaust steam. Rapid circulation is secured by a mechanically created vacuum in the return. Large or small condensing units may be used with appropriate Marsh System Units.

## The Marsh Vapor System

The Marsh Vapor System of Heating is a two-pipe system which rapidly circulates vapors at low pressures. In mild weather steam at a few ounces of pressure or under vacuum is sufficient to care for heat requirements. Circulation is maintained by the Marsh System Unit Equalizer and Boiler Return Trap.

## The Marsh One-Pipe System

The Marsh System Unit Radiator Valve, together with the Marsh Air and Vacuum Valve, make the Marsh One-Pipe System ideal for small installations, eliminating many weaknesses heretofore inherent in one-pipe systems.