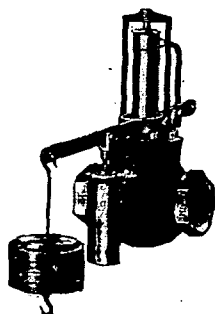


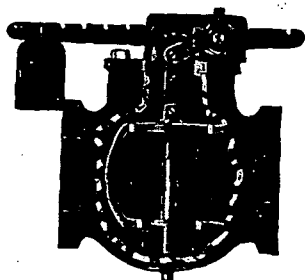
G. M. Davis Regulator Company

407 MILWAUKEE AVE., CHICAGO, ILL.

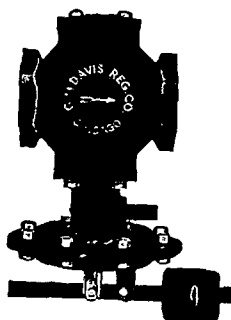
Since 1875 Manufacturers of Better Valve Specialties



Davis Piston Type
Pressure Regulator
(Any service pressure)



Davis Back Pressure Valve



Davis
Diaphragm
Type
Pressure
Regulator
(Low Service
Pressure)

Davis Piston Type Regulator

For reducing high pressure steam down to any service pressure. Patented inner valve design insures proper regulation regardless of velocity.

Lever gives visible operation and makes hand testing possible. Oil dash pot insures steady action. Sizes $\frac{1}{2}$ to 14".

Davis Back Pressure Valve

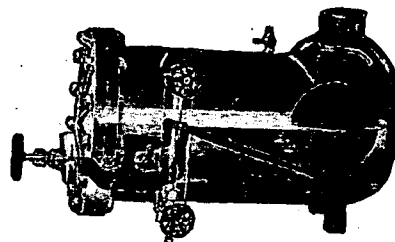
The Original semi-balanced exhaust line valve for maintaining a given back pressure. Has double seated piston disc—operates noiselessly—requires comparatively small counterweight, patented disc and seat construction prevents sticking. May be used horizontally or vertically. Sizes 2 to 30". Angle valves made to order.

Davis Steam Trap

Double cone shaped, balanced valves give continuous flow—unusually large capacity—handle any pressure—take care of widely fluctuating load. All vital parts are renewable and quite accessible. Sizes $\frac{1}{2}$ to 3".

Other Davis Valves

A 64 page catalog showing a number of pressure regulating devices, not here illustrated will be sent on request. Tell us about your special problems in pressure control—we may be able to be of service.



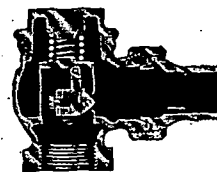
Davis Steam Trap

DONNELLY SYSTEMS COMPANY

9 Murray Street NEW YORK, N. Y.

TEMPERATURE CONTROL BY REGULATION OF SUPPLY
AND DISTRIBUTION OF STEAM OR VAPOR

Impulse Check Valves, Thermo-Differential
Valves and other Specialties for One and Two-
pipe Vapor and Vacuum Return Line Systems.



Impulse Check Valve

The practical and theoretical experience of 37 years has developed the Donnelly Systems and the Donnelly Specialties.

The general theory of design and control of the steam circulation in all Donnelly Systems is based upon the recognized principle that in small systems there are, for short runs and for a limited number of automatic return valve devices, no appreciable differences or losses in pressure. In other words, small systems have always proved simpler and more satisfactory in operation than larger systems.

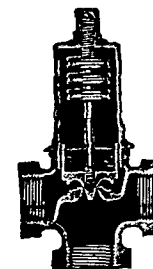
Therefore all Donnelly gravity and vacuum return line plants are divided into groups of convenient and restricted size. The former are provided with a Thermo-Float Air Valve and the latter with a Thermo-Differential Valve for each group.

The early recognition of this principle led to the design of the Impulse Check Valve, which is used at the return outlets of all radiators and coils in all Donnelly Systems, preventing any water or steam from entering the radiator from the return piping.

It is an Automatic Needle Valve, the size of the orifice through the seat being properly proportioned to the pipe size and to the rated capacity of the valve. The normal operation of the valve is the same in all systems, the weight over area of the disc and the size of the orifice being such that a complete discharge of the air and water is at all times effected and a constant

difference in pressure between the branch steam and return lines of one-half pound is always maintained.

The entire operative mechanism of the Impulse Valve is enclosed in a heavy removable tube which is inserted in a standard valve body and the valves are guaranteed for five years.



Thermo-Differential
Valve

The Thermo-Differential Valve, used in Vacuum Return Line Systems, is constructed as shown. It is made with a standard safety valve body and has a restricted seat which is proportioned to the capacity of the valve. The valve disc is provided with an impact surface, as in the Impulse Valve, and with a cup-shaped portion for holding the weights, together with a central rod which acts as a guide for the vaporizing fluid thermostat. The opening in the bottom of the valve is intended as a cleanout and should be provided with a nipple and cap. A small leakage opening is provided in the seat so that the system will drain when shut down.

A Thermo-Differential Valve is installed in each branch return so that no water, air or steam can pass into the main return without being properly regulated in pressure and flow.

Send for information on latest developments in Temperature Control. Catalogs and bulletins describing our specialties and their application will be gladly furnished on request.