THE POWERS REGULATOR COMPANY

Specialists in Thermostatic Control Since 1891

Factory and General Offices, Skokie 84, Ill.

OFFICES THROUGHOUT UNITED STATES AND CANADA

New York 17, N. Y.: 231 East 46th St. • Chicago 26, Ill.: 6655 Ridge Blvd. • Los Angeles 26, Calif.: 3200 W. Temple St. • Toronto, Ont.: 15 Torbarrie Rd.

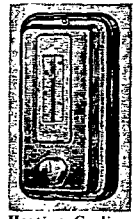
CONTROL SYSTEMS FOR HEATING, VENTILATING, AIR CONDITIONING and Processes, also Hot Water Supply Controls

When you specify or install a Powers System of Temperature Control you can rely on Powers complete responsibility for a correctly engineered control system, proper installation, continuous successful operation and SERVICE when required from offices in 85 cities.

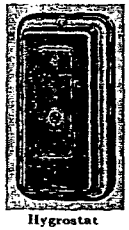
Some of the many controls employed in a Powers pneumatic system are shown here. A few hot water supply controls are shown at bottom of opposite page. For engineering assistance or bulletins contact your nearest Powers office or write nearest office listed above.



Room Thermostat



Heating-Cooling Thermostat



Hygrostat



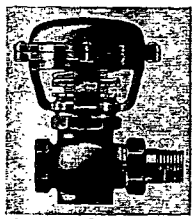
Powerstroke Motor

Pneumatic Room Thermostats, Hygrostats, Damper Motors

Powers Thermostats provide true gradual action for precise automatic control of room temperatures. They are available for single temperature control with direct or reverse action; two temperature or day-night control with direct action only; heating-cooling for air-conditioning control is also available with remote bulb; and submaster type with control point readjustable by a remote master instrument.

Powers Hygrostats are designed for pneumatic control of valves, dampers and similar devices used with various types of humidifying equipment. They are available for single point control for room or duct installations, direct or reverse action; also for submaster control with reverse action and with direct or reverse adjustment.

POWERSTROKE Damper Motors are piston type for gradual control of dampers or other final control elements. Available in three sizes: 3 in. (2 in. stroke) for limited space applications, 4 in. (3 in. stroke) and 6 in. (4 in. stroke) for smooth gradual control of automatic dampers up to 32 sq. ft. or for other applications.

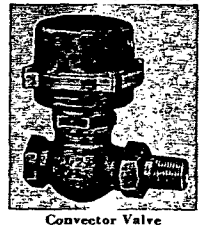


Powertop Control Valve

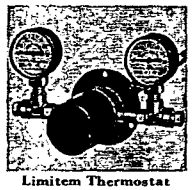
Powers PACKLESS Control Valves eliminate packing maintenance and damage from water leakage.

POWERTOP Valves are designed for smooth proportional control of steam or water flow. With 10 sq. in. effective diaphragm area, it is a compact unit for limited space applications such as unit ventilators, radiant panels, reheat coils, etc. Sizes: ½ in., ¾ in. and 1 in. with angle union or globe union bodies.

Convector Valves are extremely compact and especially adapted to very limited space applications. Available in three body types: angle union, globe union and reverse flow union. Angle and globe type sizes are ½ in. and ¾ in., reverse flow ¾ in.



Convector Valve



Limitem Thermostat

Powers LIMITEM Thermostat is a precision instrument for: (1) low limit control of unit ventilators (2) return air, mixed air and fan discharge temperature control with central fan systems and (3) pipe line insertion when used with a well. It provides convenient adjustment for any control point between 35 F and 185 F. Various mounting arrangements can be supplied.

Series 200 SUBMASTER Indicating Regulator has a control point that is pneumatically readjusted by a master instrument. It is available with sensitivity adjustment, direct or reverse action, and with direct or reverse reset adjustment.

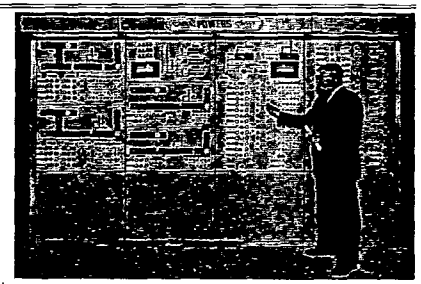


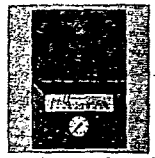
Series 200 Submaster

POWERS GRAPH-O-MATIC PANELS

Powers central control panels combine precise instrumentation with simplicity of operation. They can be equipped to take care of a variety of functions such as remote readjustment of controllers, continuous temperature indicators, remote positioning of dampers and valves. Simplicity of pneumatic controls insures continuous and reliable service.

Graph-O-Matic Panels are also available in console models. All types are custom designed and built to meet the requirements of any comfort or process control system.



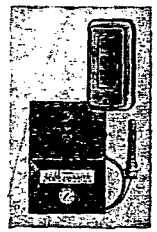


No. 200 Receiver Controller

Transmitters, Receiver Controllers, Gages

The Type HT Transmitter is available for room and duct installation. Ranges are 35 F to 65 F, 55 F to 85 F, 75 F to 105 F, and 95 F to 125 F. The Series 200 Remote Bulb Transmitter is available with bulbs for duct or pipe line insertion and with 15 ft. of capillary tubing. Standard ranges: −25 F to 135 F and 25 F to 250 F.

Series 200 Receiver-Controller receives pneumatic signals from a remotely located transmitter. It indicates the temperature at the remote location and also controls a valve or damper to maintain operation at the selected control point. It is furnished with adjustable sensitivity and with direct or reverse action. Standard indicating scales are −25 to +135 F and 25 F to 250 F.



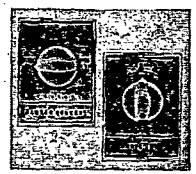
Pneumatic Transmitters
Type HT above, Series 200 below



Temperature and Indicator Gages

Temperature Gages continuously show the temperature of important phases of an air-conditioning or process system. They are designed for central panel mounting remote from the transmitter. Diameters are 2½ in. and 3½ in.

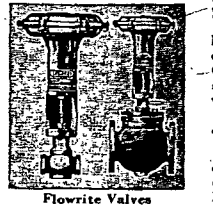
Powers Indicator Gages are used to show the reset range of a controller, the operation of electrical equipment or the position of a valve or damper motor.



Pneumatic Switches

Powers Pneumatic Switches and FLOWRITE Valves

Pneumatic Postioning Switches are designed for manual operation of actuators requiring smooth gradual control and also for readjustment of remotely located submaster instruments. They are 2⅜ in. wide by 3⅜ in. high and are compactly designed for panel board use. Powers Selector Switches are designed to deliver or stop or divert a flow of compressed air to selected control devices remotely located.



Flowrite Valves

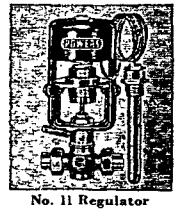
Powers FLOWRITE Valves are used to control the flow of water or steam. These valves are furnished with Powers #590 Teflon Graphited-Asbestos Packing. They are available in single or double seat and V-port types, direct or reverse acting — also in a three-way water mix type.



Accritem Regulator

Hot Water Supply Temperature Controls

Shown here are a few of Powers complete line of self operating and air operated controls for water heaters, heat exchangers, hot water line control, various types of baths and processes. All are described in POWERS WC CATALOG.

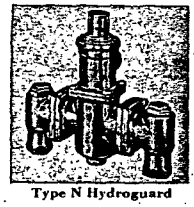


No. 11 Regulator

No. 11 Self Operating Regulator controls temperature of liquids or air; operating temperatures from 60 to 260°F; sizes ½ thru 4"; various types of valve bodies; available with 4" dial thermometer. Is widely used for water storage heaters; heat exchangers and processes.

ACCRITEM Regulator is air operated; controls temperature of liquids or air; temperature ranges 50 to 250°F and 150 to 350°F. Used for water storage heaters, instantaneous heaters, heat exchangers, submerged indirect heaters and processes.

HYDROCUARD Thermostatic Water Mixers automatically blend hot and cold water to deliver a mixture at exact temperature desired. Used for hot water line control, various types of baths, and processes. Models available for various capacities and temperature ranges.



Type N Hydroguard