Barber-Colman Company

Rockford, Illinois

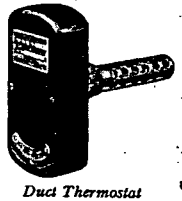
Automatic Control Systems for Heating, Ventilating, Air Conditioning



Room Thermostat



Room Type Microtherm



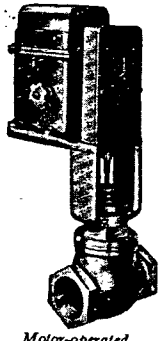
Duct Thermostat



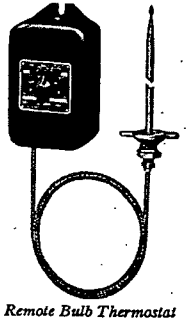
Hygrostat



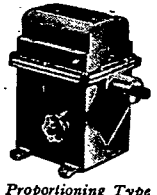
Motor-operated Shut-off Valve



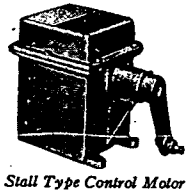
Motor-operated Proportioning Valve



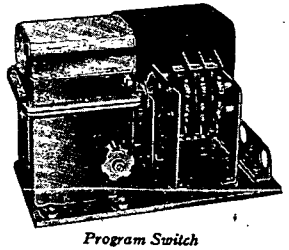
Remote Bulb Thermostat



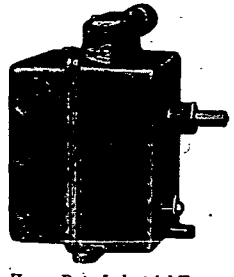
Proportioning Type Control Motor



Stall Type Control Motor



Program Switch



Heavy Duty Industrial Type Control Motor

Barber-Colman Controls are all electric; precision built to insure long, continuous and dependable service; easy to install in either new or existing buildings; and ready for instant service, even after long shut-down periods.

Thermostats. All types—room, duct, immersion, air stream and remote bulb. For 2-position, floating, and proportioning control.

Hygrostats. Room and duct types.

Motor-Operated Valves. Packless, packed single-seat, pilot piston, V-ported, balanced, 3-way, and butterfly. For 2-position, floating, or proportioning control. Also Solenoid Valves for air, oil, water and gas. *Motor-operated valves are powered with Barcol motors which have only one moving part and require no attention except oiling; oil submerged operators require no attention.*

Control Motors. Uni-directional, or reversible fixed or adjustable speed. For 2-position, floating or proportioning operation of dampers in heating, ventilating or air conditioning applications. *Oil submerged models have the motor and gear train entirely submerged in oil.*

Program Switches. Automatic contact making mechanism for multi-compressor control or similar applications.

Econostat (not illustrated), a complete self-contained thermostatic unit for automatic regulation of the heat supplied to a building in accordance with outdoor temperatures.

Write for descriptive literature.

LISTED AS STANDARD BY UNDERWRITERS LABORATORIES

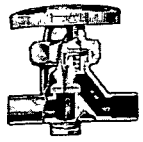
(See also Page 980)

Henry Valve Company

1001-19 North Spaulding Ave., Chicago, Ill.

Manufacturers of

PACKLESS AND PACKED VALVES • DRYERS FOR REFRIGERATION AND AIR CONDITIONING • STRAINERS • AMMONIA VALVES • FORGED STEEL VALVES AND FITTINGS FOR OIL, STEAM AND OTHER FLUIDS.

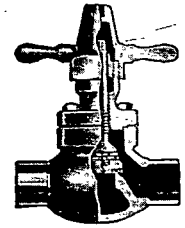


Balanced-Action Diaphragm Packless Valves

VALUE OF BALANCED-ACTION

Regardless of operating conditions or the differential in the pressure above and below the valve seat, balanced-action assures positive and instantaneous opening. The balancing action is really the equalizing of the pressures on the two sides of the valve seat at the instant of opening. This is accomplished by a channel in the axis of the valve stem. When the valve is closed, the upper port of this channel is sealed by the diaphragm assembly itself. At the instant of opening, the pressure above the seat forces the diaphragm assembly upward, exposing the upper port of the balancing channel. The pressure is released through the channel to the region below the seat, equalizing the pressures, thus assuring positive opening. A spring-tensioned ball check seals the channel for diaphragm inspection.

Other Important Features are: Oval handwheel, ports-in-line, non-rotating bearing plate to protect diaphragm from rotating friction of stem, and use of multiple puncture and fracture-proof diaphragms designed to resist wear and corrosion. Available in a complete range of sizes with flare and solder connections.



WING CAP VALVES

Designed especially for Freon and Methyl Chloride. Have patented rotating self-aligning stem disc. Special resilient packing. May be repacked under pressure. Wing cap can be inverted and socket used for operating valve. Made of non-ferrous alloy to meet government specifications. Solder connections machined directly in valve body.

ABSO-DRY PRESSURE SEALED DRYERS

For Refrigeration and Air Conditioning

The exclusive Henry vacuum process first removes every trace of moisture, then the dryer is charged with dehydrated air. Loosening a seal cap prior to installation produces hissing sound, a guarantee of original factory dryness and freedom from leaks.



OTHER FEATURES OF HENRY DRYERS—*Perforated Dispersion tube* is connected to inlet port and exposes entire volume of dehydrant to penetration by refrigerant. *Minimum* pressure drop. No channelling. *Compression Spring* maintains uniform tension on dehydrant at all times and compensates for changes in volume. *Soldered or Flanged Shells*—models are available with either soldered cap or flanged end shells: Flange is distortion-proof. Shells not exceeding 5½ in. in length are drawn in dies, so that they have only one joint.

TWO DEHYDRANTS—Choice of the two most popular dehydrants at same price: Activated Alumina or Silica gel.



Type 757 Cartridge Dehydrator

A flanged shell dehydrator with replaceable cartridge.

Type 712 Dehydrator

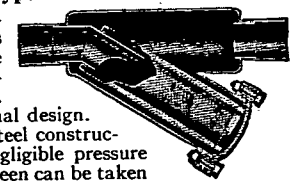


Soldered brass shell dehydrator with dispersion tube.

HENRY STRAINERS

There is a size and type of Henry Strainer for every installation requirement.

Type 895 "Y" Strainer



With solder fittings for use with copper pipe. Exceptional design. Welded steel construction. Negligible pressure drop. Screen can be taken out for cleaning without removing strainer from line. Very large screen area. Light weight. Baffle prevents heavy particles injuring screen.

APPROVED FOR ARMY AND NAVY USE