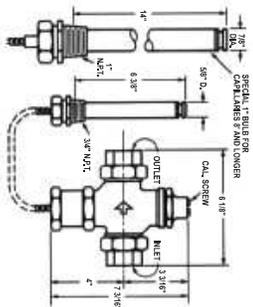
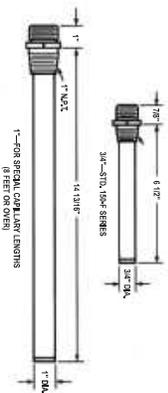


DIMENSIONS 150-F AND R-150-F CONTROLS



BULB WELLS

Available in stainless steel or brass



150-F AND R-150-F SELF-MODULATING TEMPERATURE CONTROL VALVES



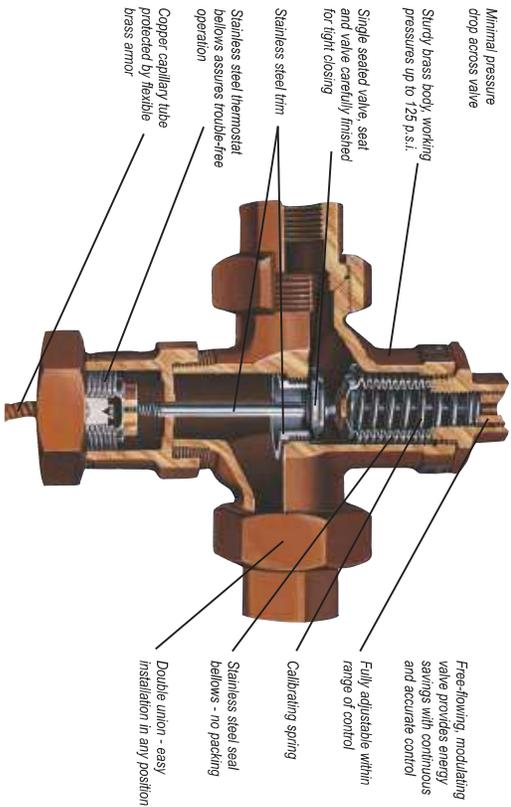
HIGH ENGINEERING STANDARDS AND ENERGY SAVING FEATURES

Simple yet efficient design requires minimum maintenance. Heavy duty construction assures long valve life. Valves are temperature actuated, self-powered, fully balanced, and applicable to heating or cooling processes using water, oil, steam or other fluids.

FEATURES

- **Self Contained, Completely Automatic**
Simply install and set temperature from a variety of ranges. No further adjustments or external power required
- **Compact Design**
Requires minimum installation space with minimum piping requirements
- **Versatile**
Designed for a wide variety of applications, both heating and cooling





SPECIFICATIONS	
Pressure Ratings - lbs.	0-125
Inlet & Outlet	Double Union
Valve Body Straightway	Brass Body
Valve Trim	Stainless Steel Valve Disc
Valve Construction	Single-seated, Balanced, with Stainless Steel Seal Bellows
Standard Capillary Length	6, Longer or shorter lengths available
Standard Temperature Ranges Available	55°-95°F 130°-170°F 85°-125°F 150°-190°F 105°-145°F 175°-215°F 185°-225°F
SPECIAL Temperature Ranges (other ranges available - consult factory for details)	80°-170°F 110°-190°F 165°-225°F

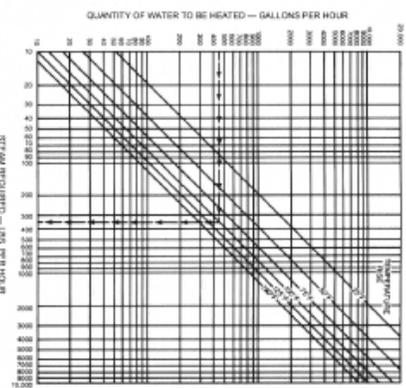
NOTE: When ordering, specify size, series number, temperature range, capillary length, working pressure, shut-off temperature (controls are factory set at middle of range unless otherwise specified).

OPTIONS AND ACCESSORIES

- Flanged bulb for duct mounting
- Calibrated adjusting screw with wheel handle for quick adjustment
- Plain brass bulb less adaptor for open tank or cabinet mounting
- Brass bulb with lock nut for bracket mounting
- Union fitting on capillary for closed tank
- 6 ft. plastic coated capillary and bulb for plating tanks (no tank adaptor)
- 6 ft. stainless steel capillary and bulb for plating tanks
- 1/16" weephole on outlet side of valve for constant flow
- Brass and stainless steel bulb wells
- Other options available - consult factory

Inlet & Outlet Sizes	For HEATING closes on rising temperature	For COOLING opens on rising temperature
1/2"	Series No. Direct-acting 150-F	Series No. Reverse-acting R-150-F
3/4"	151-F	R-151-F
1"	152-F	R-152-F

CAPACITIES AND SIZING



Size	Heating or Cooling C _p	Weight (lbs)
1/2"	3.03	8
3/4"	6.03	8
1"	9.51	8

HEATING - STEAM REQUIREMENTS

Use the chart above to find the amount of steam required to heat a given amount of water. The example shows that if it is desired to heat 450 GPH of water from 60° to 160°F (100° rise), the amount of steam required would be 350 lbs./hr.

For fuel oil, about half as much steam is required. Using the same figures as above for example - 450 GPH of oil and 100° rise, the steam requirement would be 350/2 or 175 lbs./hr.

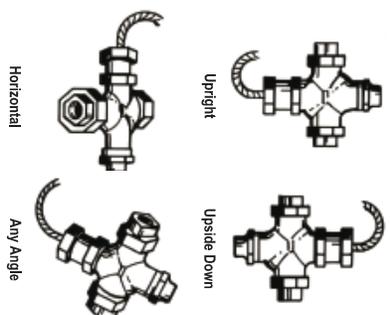
HEATING - VALVE SIZE

Use this chart to determine the correct size valve to deliver a given amount of steam. The example shows that, if 350 lbs./hr. of steam is required and the steam pressure drop available at the control is 50 lbs./sq. in., a 3/4" 151-F valve will be adequate.

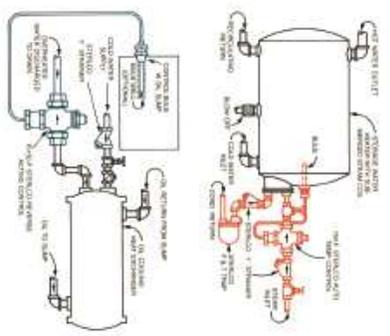
COOLING - WATER

Use this chart to find the correct size reverse-acting or cooling valve to deliver the required water flow. In the example shown, a requirement of 52 G.P.M. at 100 lbs./sq. in. supply pressure indicates that a 3/4" R-151-F control will be needed.

VALVE OPERATES IN ANY MOUNTING POSITION



TYPICAL APPLICATIONS



150-F HEATING STORAGE WATER HEATER

R-150-F COOLING HEAT EXCHANGER