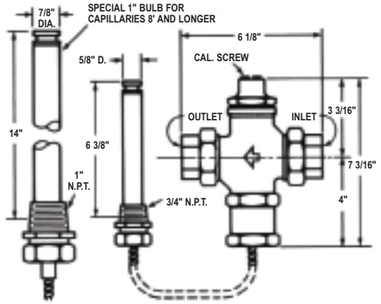
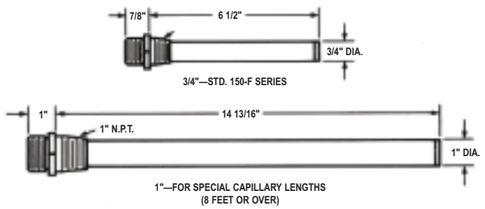
DIMENSIONS 150-F AND R-150-F CONTROLS



BULB WELLS

Available in stainless steel or brass



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www.steamcontrolproducts.com

STERLCO® PRODUCTS INCLUDE: HAND RADIATOR VALVES • THERMOSTATIC TRAPS • FLOAT AND THERMOSTATIC TRAPS • INVERTED BUCKET TRAPS • CAST IRON STRAINERS • BRASS STRAINERS • TANK AND PROCESS TEMPERATURE CONTROL VALVES • BOILER FEED UNITS • CONDENSATE PUMPS

BULLETIN NO. SP1-105.1

150-F AND R-150-F

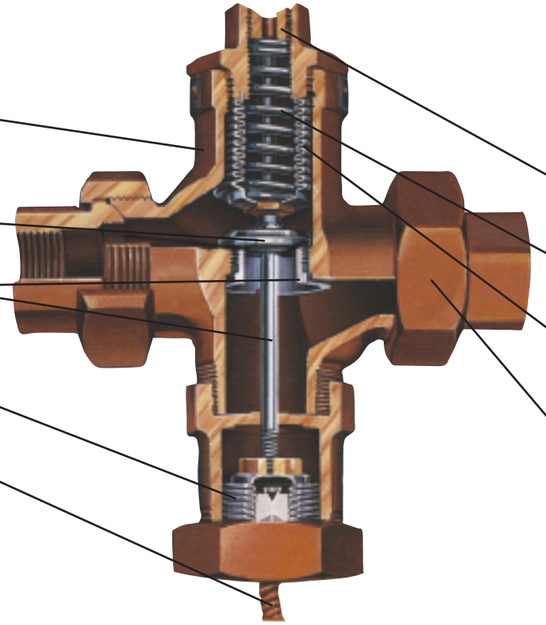
SELF-MODULATING TEMPERATURE CONTROL VALVES

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	55º-95ºF 85º-125ºF 105º-145ºF	130º-170ºF 150º-190ºF 175º-215ºF 185º-225ºF
SPECIAL Temperature Ranges (other ranges available - consult factory for details)	80º-170ºF 110º-190ºF 165º-225ºF	

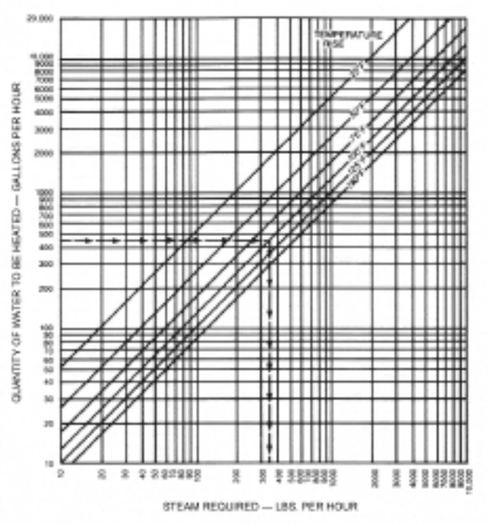
NOTE: When ordering, specify size, series number, temperature range, capillary length, working pressure, shut-off temperature (controls are factory set at middle of range unless otherwise specified).

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
	Series No. Direct-acting	Series No. Reverse-acting
1/2"	150-F	R-150-F
3/4"	151-F	R-151-F
1"	152-F	R-152-F

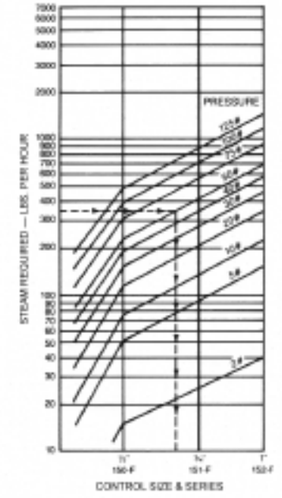
CAPACITIES AND SIZING



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 60º to 160ºF (100º rise), the amount of steam required would be 350 lbs./hr.

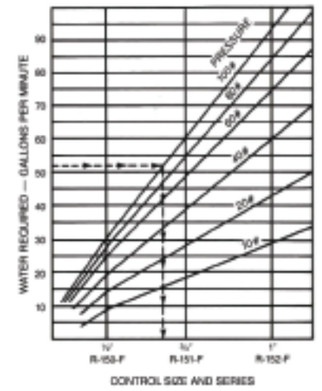
For fuel oil, about half as much steam is required. Using the same figures as above for example - 450 GPH of oil and 100ºF rise, the steam requirement would be 350/2 or 175 lbs./hr.



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.

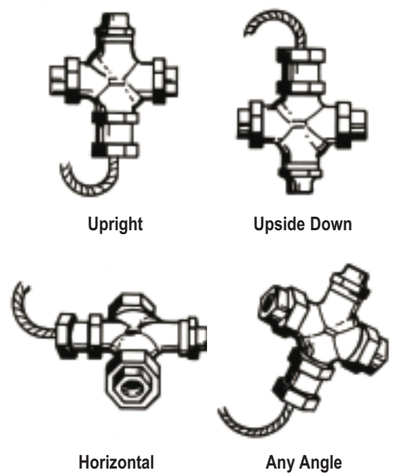
Heating or Cooling		
Size	C_V	Weight (lbs)
1/2"	3.03	8
3/4"	6.03	8
1"	9.51	8



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.

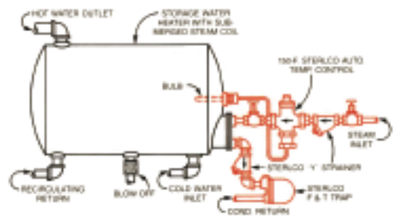
VALVE OPERATES IN ANY MOUNTING POSITION



Upright — Upside Down

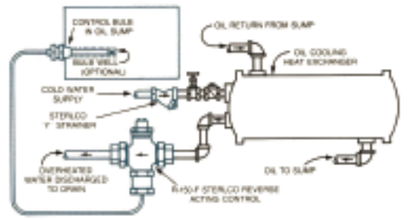
Horizontal — Any Angle

TYPICAL APPLICATIONS



150-F HEATING

STORAGE WATER HEATER



R-150-F COOLING

HEAT EXCHANGER