SELF MODULATING TEMPERATURE CONTROL VALVE
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
**Options and Accessories**

- Flanged bulb for duct mounting
- Calibrated adjusting screw with wheel handle for quick adjustment
- Plain brass bulb less adapter 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" weep hole on outlet side of valve for constant flow
- Brass and stainless steel bulb wells
- Other options available - consult factory

### Specifications

<table>
<thead>
<tr>
<th>Inlet &amp; Outlet Sizes</th>
<th>For HEATING closes on rising temperature</th>
<th>For COOLING opens on rising temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Series No. Direct-acting</td>
<td>Series No. Reverse-acting</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>150-F</td>
<td>R-150-F</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>151-F</td>
<td>R-151-F</td>
</tr>
<tr>
<td>1&quot;</td>
<td>152-F</td>
<td>R-152-F</td>
</tr>
</tbody>
</table>

**Pressure Ratings - lbs.**

- 0.125 Double Union
- Brass Body
- Stainless Steel Valve Disc
- Single-seated, Balanced, with Stainless Steel 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**

-温度范围 (其他可用范围 - 请咨询工厂详情)
- 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).
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 60°F to 160°F (100°F 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°F rise, the steam requirement would be 350/2 or 175 lbs./hr.

<table>
<thead>
<tr>
<th>Heating or Cooling</th>
<th>Size</th>
<th>Cv</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/2&quot;</td>
<td>3.03</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>3/4&quot;</td>
<td>6.03</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>1&quot;</td>
<td>9.51</td>
<td>8</td>
</tr>
</tbody>
</table>

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.
DIMENSIONS 150-F AND R-150-F CONTROLS

BULB WELLS
Available in stainless steel or brass

TYPICAL APPLICATIONS

150-F HEATING - STORAGE WATER HEATER

R-150-F COOLING - HEAT EXCHANGER

STERLCO® PRODUCTS INCLUDE:
- HAND RADIATOR VALVES • THERMOSTATIC TRAPS • FLOAT AND THERMOSTATIC TRAPS
- INVERTED BUCKET TRAPS • CAST IRON STRainers • Brass STRainers • Boiler Feed Units
- TANK AND PROCESS TEMPERATURE CONTROL VALVES • CONDENSATE PUMPs