

D-150-G/R-150-G SERIES

Self-Modulating Temperature Control Valves

Technical Specifications

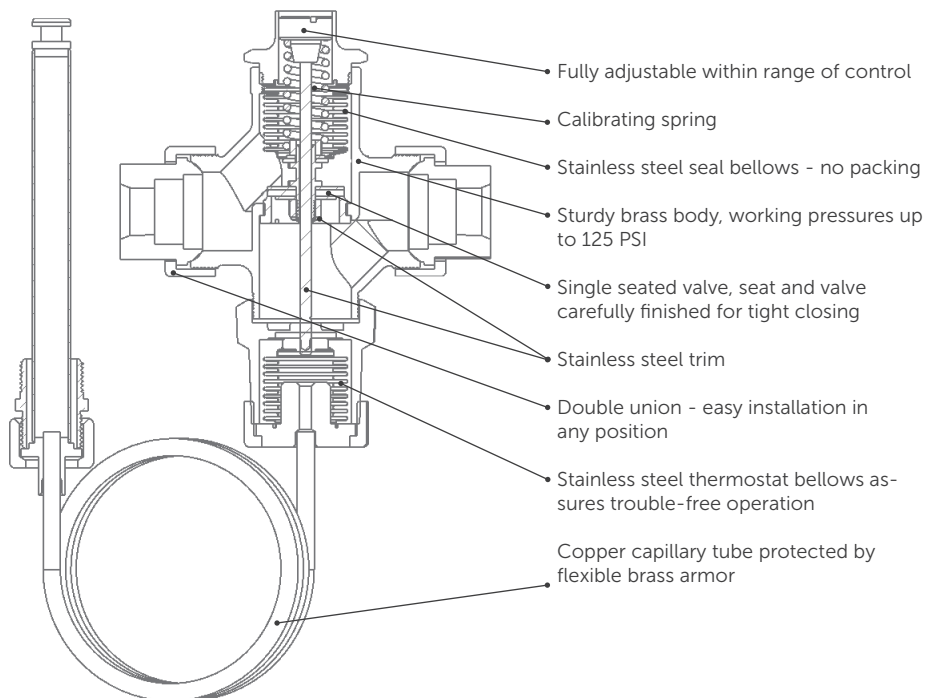
Simple yet efficient design requires minimum maintenance. Heavy duty construction assures long valve life. Valves are temperature actuated, self-powered, fully balanced, and applicable to heating (D-150-G) or cooling (R-150-G) processes using water, oil, steam or other fluids

Features

Standard 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.

Minimal pressure drop across valve



Optional Features

- 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
- 1/16" weephole on outlet side of valve for constant flow
- Brass and stainless steel bulb wells
- Other options available - consult factory

Specifications

Heating - Steam Requirements

Use the chart to the right 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 to the right for example - 450 GPH of oil and 100°F rise, the steam requirement would be 350/2 or 175 lbs./hr.

Inlet & Outlet Sizes	Cv	Weight, lbs.	For HEATING closes on rising temperature	For COOLING opens on rising temperature
			Series No. Direct-acting	Series No. Reverse-acting
1/2"	3.03	8	D-150-G	R-150-G
3/4"	6.03	8	D-151-G	R-151-G
1"	9.51	8	D-152-G	R-152-G

Pressure ratings - lbs. **0-125**

Inlet & outlet **Double union**

Valve body - straightway **Brass body**

Valve trim **Stainless steel seat and stainless steel & silicone valve disc**

Valve construction **Single-seated, balanced, with stainless steel seal bellows**

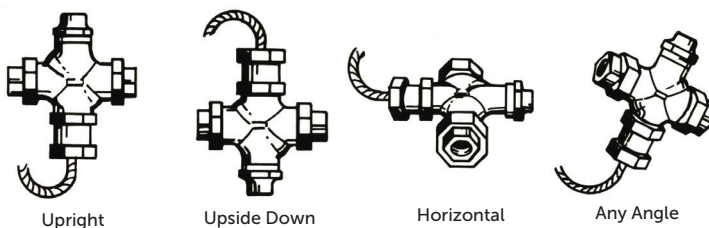
Standard capillary length **6', longer or shorter Lengths available.**

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

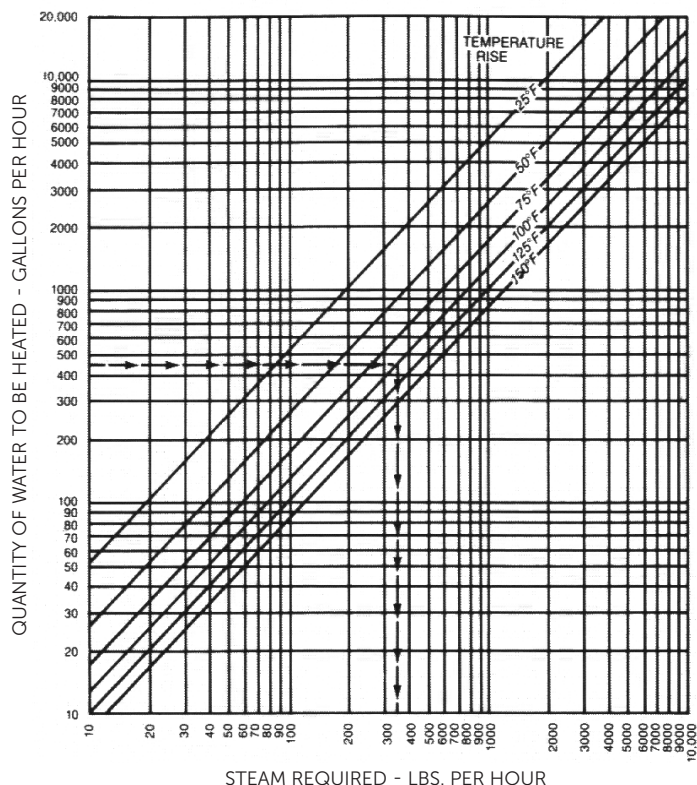
Special: **80°-170°F**
 temperature ranges **110°-190°F**
 (other ranges available - consult factory for details) **165°-225°F**

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

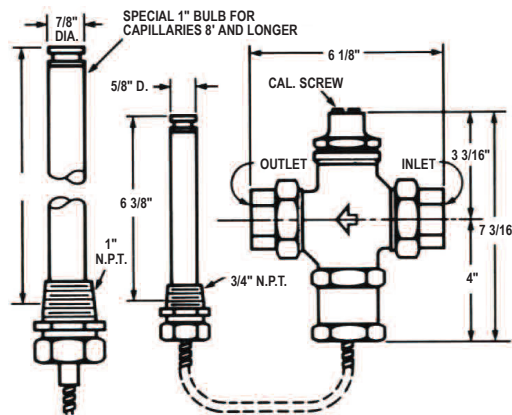
Valve Operates In Any Mounting Position



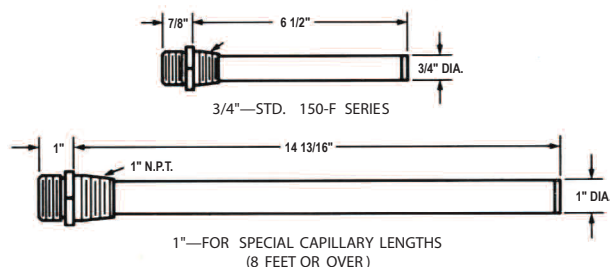
Capacities and Sizing



Dimensions D-150-G and R-150-G Controls



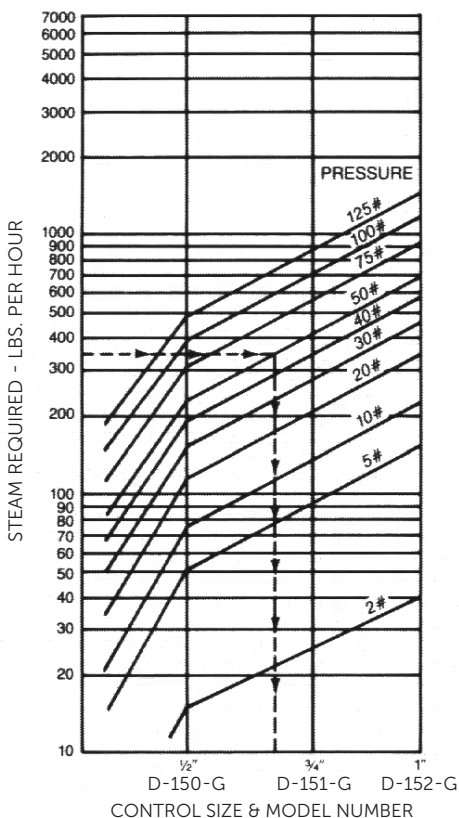
Bulb Wells - Available in stainless steel or brass



Specifications

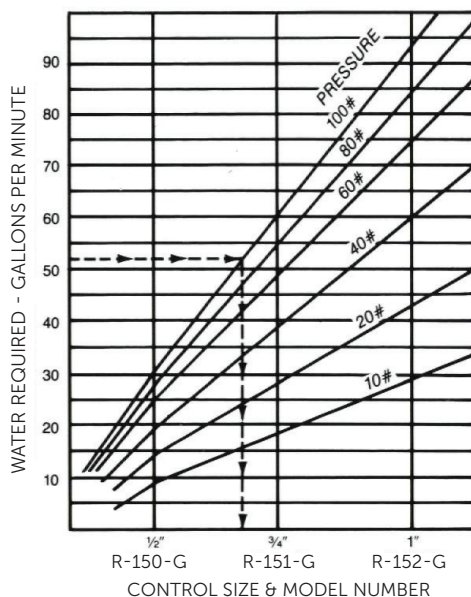
Heating - Valve Size

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" D-151-G control valve will be adequate.



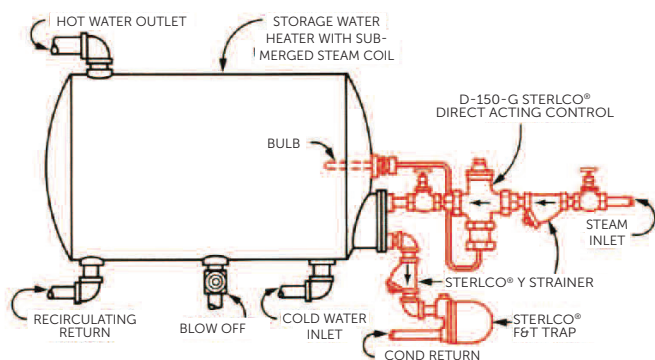
Cooling - Water

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-G control valve will be needed.



Typical Applications

D-150-G Heating - Storage Water Heater



R-150-G Cooling - Heat Exchanger

