



TAV SERIES

Support Valves

Crispin Thermally Activated Valve

Service Applications

- Freeze protection
- Scald protection
- Steam trap/ drip trap
- Heat tracing of valves and pumps



The Crispin Thermally Activated Valve offers freeze protection for valves, pipelines and ancillary piping equipment. It will discharge liquid when the 35° F set point is reached. The TAV also offers scald protection for eyewash stations and safety showers, with solar heating of pipe systems. It operates as a steam and drip trap, draining condensate and closing again when steam passes through. It also offers steam tracing of valves or pumps by regulating condensate outflow temperature. The TAV responds to temperature differentials by means of a thermal actuator placed in the fluid stream. When temperature increases above the set point, the wax in the actuator undergoes a phase change, forcing the valve open. When liquid of the desired temperature is sensed, the valve modulates to control the discharge rate. In all cases, the valve will open or close as the temperature changes around the valve set point.

Design Characteristics

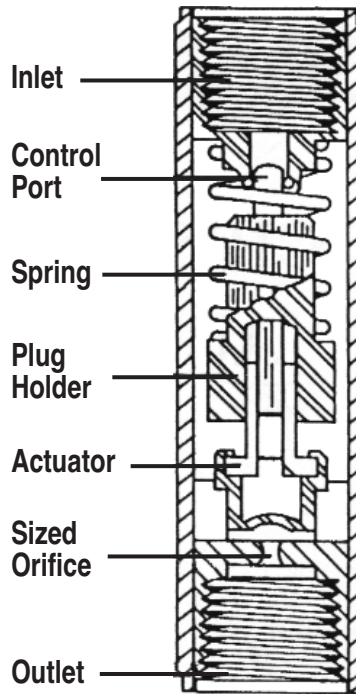
Actuator: The actuator is located on the downstream side at the plug and seat. This arrangement permits valve sensitivity to critically low ambient temperatures.

Flow Control: The orifice and control port are sized to effectively regulate flow for better control. Specific application requirements can be accommodated by specifying the desired flow coefficient.

Materials: The corrosion resistant ram type plug and seat provide a more effective shut-off than a metal-to-metal seat.

Installation: CRISPIN TAV valves are installed with a pipe wrench to two optional pipe sizes.

When ordering, please specify model number and set point temperature



Standard Materials

- Body: 303 & 304 Stainless Steel
- Seat: High Temperature Teflon®
- Plug: 316 Stainless Steel
- Spring: Stainless Steel
- Plug Holder: Brass

Specifications

- Model TAV5: 1/2" NPT Inlet/Outlet
- Pressure: 300 PSIG MAX.
- Length: 4 1/2" Diameter: 1 1/8"
- Weight: 12oz.
- Cv; 0.8 standard; 1.8 and 0.2 available

Temp. Set Points	35°F	95°F	100°F	120°F	180°F	210°F	240°F
Freeze Protection	X						
Steam Application					X	X	X
Scald Protection		X	X	X			
Heat Tracing	X		X	X	X	X	X