



THERM-OMEGA-TECH

ISO 9001 CERTIFIED

HAT/SP

SCALD PROTECTION VALVE

**FREEZE PROBLEMS?
CALL THERM-OMEGA-TECH
TOLL-FREE 1-877-379-8258**

DESIGN FEATURES

- ◆ HAT/SP-105 meets OSHA temperature guidelines
- ◆ Stainless steel body, fittings, spring and plug
- ◆ Corrosion resistant - Long service life
- ◆ Narrow temperature band
- ◆ Compact, low mass - Fast response
- ◆ Ram-type plug for reliable tight shutoff
- ◆ Sensitive to temperature only
- ◆ Unaffected by pressure variations
- ◆ Easy installation with pipe wrench
- ◆ Installs in any orientation
- ◆ Discharges the minimum amount of water required to keep water temperature within safe limits



ADVANTAGES

The **HAT/SP** valve continually senses and automatically bleeds excessively hot water from safety shower/eyewash systems. Protection is provided with minimal water consumption. The unique plug and seat design offers the most reliable, tight shutoff available. All **HAT/SP** valves are factory tested and covered by a 36 month prorated warranty.

OPERATION

When the water temperature rises above safe limits and a danger of scalding exists, the thermal actuator modulates the valve open. As water temperature rises a few degrees above the valve closing temperature the valve begins to open. A small sample of the water from the pipe system then flows past the sensor. The valve will continue to modulate open until the overtemperature water is eliminated. When the water temperature returns to the safe range (10°F below the full open setpoint) the valve modulates closed, minimizing water loss. The **HAT/SP-105** is full open at 105°F (41°C) and remains open until water temperature is 95°F (35°C) or below. On rising water temperature, the **HAT/SP-105** begins to open before water temperature reaches 100°F (38°C).

APPLICATIONS

Solar radiation or overheating caused by steam or electric tracing can cause extremely high temperatures at the point of use, resulting in a safety hazard for plant personnel. When installed in safety showers, eyewash stations, and other locations exposed to the same source of overheating as the system, the **HAT/SP** will be heated just as the pipe system. The valve will open to establish flow until the overtemperature water is eliminated and it will then modulate closed.

HAT/SP

SCALD PROTECTION VALVE



PARTS AND MATERIALS

ITEM	DESCRIPTION	MATERIAL
1	BODY - INLET HALF	300 SERIES STAINLESS
2	SEAT SEAL	PTFE
3	RAM-TYPE PLUG	300 SERIES STAINLESS
4	OPERATING SPRING	300 SERIES STAINLESS
5	BODY SEAL	EPDM
6	THERMAL ACTUATOR	BRASS or SS
7	ACTUATOR CARRIER	BRASS or SS
8	BODY - OUTLET HALF	300 SERIES STAINLESS

SPECIFICATIONS

SIZE (NPTF)	D		L		Weight		Port Size	C _v	Maximum Pressure	Maximum Temperature
	in	mm	in	mm	Lb	Kg				
1/2"	1.25	32	4.5	114	0.9	0.41	C	1.5	200 PSIG (13.8 BAR)	300°F (149°C)
3/4"	1.5	38	5.5	140	1.4	0.64	D	2.0		

TO ORDER SPECIFY:

Part Number	Description
124-302100-XXX	1/2" HAT/SP C-Port
124-312100-XXX	1/2" HAT/SP C-Port all SS
125-502100-XXX	3/4" HAT/SP D-Port
125-512100-XXX	3/4" HAT/SP D-Port all SS

NOTES:

- Standard open temperature, "XXX", is 105°F. Optional open temperatures, "XXX": 095°F, 100°F, 110°F and 115°F.
Note: Closing temperature is typically 10°F below opening temperature.
- Seal Material compatibility:
 - EPDM - air (to 300F), water, steam, ketones and synthetic hydraulic oils.
- A #20 mesh strainer is recommended for use with all port sizes.

Therm-Omega-Tech, Inc. reserves the right to change the design and specifications without notice



THERM-OMEGA-TECH, INC.

353 Ivyland Road, Warminster, PA 18974-2205
Phone: 215-674-9992 Fax: 215-674-8594

CALL US TOLL FREE

1-877-379-8258



Visit our internet site at: <http://www.ThermOmegaTech.com> email: valves@ThermOmegaTech.com