

HAT/SP

SCALD PROTECTION VALVE

BENEFITS

- HAT/SP temperatures up to 105°F meet ANSI Z358.1 standards
- Protects safety showers from over-temperature conditions, keeping personnel safe
- Self-operating, no power or signal required
- Two wrench flats for easy installation
- Discharges the minimum amount of water required
- Some valves are NSF/ANSI/CAN 61 & 372 Certified

DESIGN FEATURES

- Exclusive **Thermoloid®** thermal actuator
- Stainless steel body, fittings, spring, and plug
- Compact, low-mass - fast response
- Corrosion resistant - long service life
- Ram type plug for reliable and tight shutoff
- Installs in any orientation

APPLICATIONS

A safety hazard for plant personnel can occur when utilizing safety showers, facewash, or eyewash stations if overheating the pipes caused by solar radiation or steam/electric tracing results in extremely high temperatures at the point of use. The **HAT/SP** valve prevents this safety hazard.

When installed in 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 over-temperature water is eliminated and it will then modulate closed.

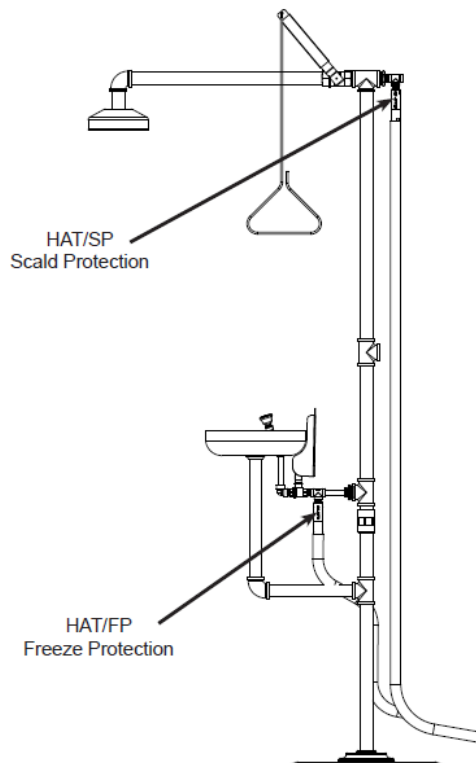
OPERATION

The **HAT/SP** should be installed at the highest point on a safety shower or face/eyewash station to monitor the temperature. The valve will initiate flow when its thermal actuator senses 98°F (36.7°C) and will remain open as long as the discharge water temperature is above 95°F (35°C).

When installed in the ambient sensing position (standard flow), the actuator will respond to ambient temperature to initiate flow and then respond to water temperature once flow is established; when installed in the fluid sensing position (reverse flow), the actuator will always respond to water temperature.



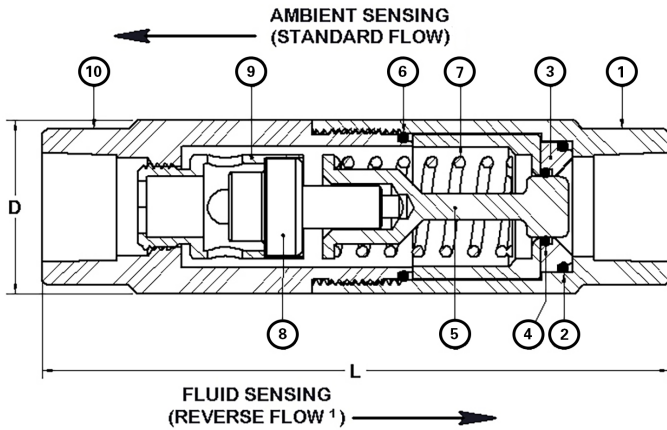
SAMPLE APPLICATIONS



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PARTS & MATERIALS



ITEM	DESCRIPTION	MATERIAL
1	BODY - HALF	300 Series SS
2	SEAT INSERT SEAL	EPDM
3	SEAT INSERT	300 Series SS
4	SEAT SEAL	FEP Encapsulated Viton
5	RAM-TYPE PLUG	300 Series SS
6	BODY SEAL	EPDM
7	OPERATING SPRING	300 Series SS
8	THERMAL ACTUATOR	Brass or 300 Series SS
9	ACTUATOR CARRIER	Brass or 300 Series SS
10	BODY - HALF	300 Series SS

DIMENSIONS & CAPACITIES

SIZE (NPT)	D		L		Weight		Port Size	C _v	Maximum Operating Pressure ¹	Maximum Temperature
	in	mm	in	mm	Lb	Kg				
1/2"	1.3	33	4.5	114	0.9	0.4	C	1.5	200 PSIG (13.8 BAR)	Range 150°F (83.3°C) over set- point with a limit of 300°F (149°C)
3/4"	1.5	38	5.5	140	1.4	0.6	D	2.0		

ORDERING

Part Number ²	Description ³
124-302100-XXX	1/2" HAT/SP-XXX-C-E (Ambient Sensing)
124-312100-XXX	1/2" HAT/SP-XXX-C-SS-E (Ambient Sensing) ⁴
124-702100-XXX	1/2" HAT/SP-XXX-C-RF-E ¹ (Fluid Sensing)
124-712100-XXX	1/2" HAT/SP-XXX-C-SS-RF-E ¹ (Fluid sensing) ⁴
124-324100-XXX	1/2" HAT/SP-XXX-C-S6-E (Ambient Sensing)
124-724100-XXX	1/2" HAT/SP-XXX-C-S6-RF-E ¹ (Fluid Sensing)
125-502100-XXX	3/4" HAT/SP-XXX-D-E (Ambient Sensing)
125-512100-XXX	3/4" HAT/SP-XXX-D-SS-E (Ambient Sensing) ⁴
125-702100-XXX	3/4" HAT/SP-XXX-D-RF-E ¹ (Fluid Sensing)
125-712100-XXX	3/4" HAT/SP-XXX-D-SS-RF-E ¹ (Fluid Sensing) ⁴

NOTES

- Reverse flow option for C-port is rated 150 PSIG (10.33 BAR); D-port is 70 PSIG (4.8 BAR)
- Full open temperature, "XXX", is 105°F. Optional full open temperatures, "XXX": 95°F, 100°F, 110°F, and 115°F.
 - Note: Closing temperature is typically 10°F below opening temperature.**
- SS=303 Stainless Steel and S6=316/316L Stainless Steel. Consult our engineering team if you require other materials.
- This valve is NSF/ANSI/CAN 61 & 372 Certified.
- A #20 mesh strainer is recommended.
- Warranty information disclosed at www.thermomegatech.com/terms-conditions/



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HAT/SP
4/4/2025

Because of continuous improvements, ThermOmegaTech®, Inc. reserves the right to change the design and specifications without notice