

HAT/SP

SCALD PROTECTION VALVE



BENEFITS

- HAT/SP-105 Meets OSHA temperature guideline
- Protects safety showers from overtemperature conditions, keeping personnel safe
- Long service life
- Fast response
- Discharges the minimum amount of water required to keep water temperature within safe limits

DESIGN FEATURES

- Stainless steel body, fittings, spring, and plug
- Corrosion resistant
- Exclusive **Thermoloid**® sensor/controller
- Compact, low-mass
- Two wrench flats for easy installation
- Ram type plug for reliable and tight shutoff
- Installs in any orientation

APPLICATIONS

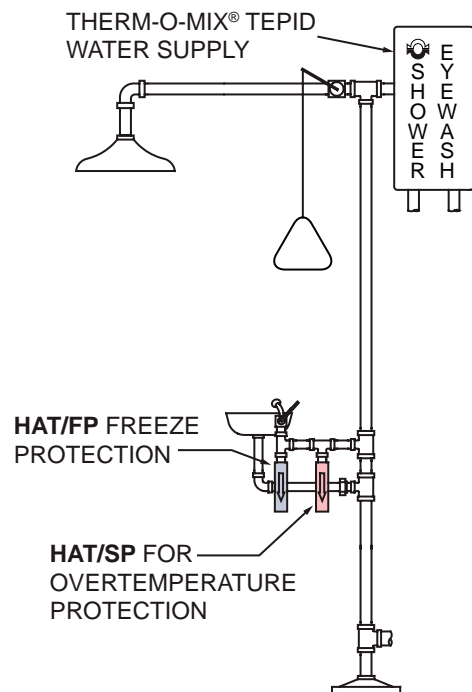
Solar radiation or overheating caused by steam or electric tracing can cause extremely high temperatures at the point of use, resulting in a safety hazard for plant personnel. When installed in safety showers, eyewash stations, and other locations exposed to the same source of overheating as the system, 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.

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).



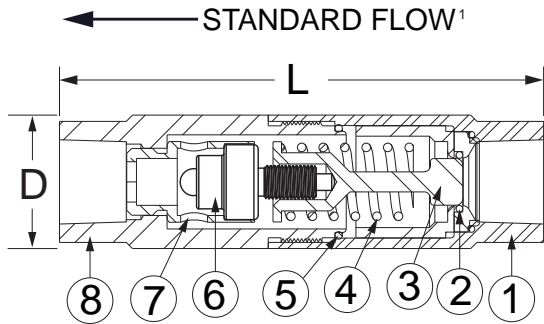
SAMPLE APPLICATION



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PARTS & MATERIALS



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

DIMENSIONS & CAPACITIES

SIZE (NPT)	D		L		Weight		Port Size	C _v	Maximum Operating 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		

ORDERING

Part Number	Description
124-302100-XXX	1/2" HAT/SP C-Port
124-312100-XXX	1/2" HAT/SP C-Port all S/S
124-702100-XXX	1/2" HAT/SP C-Port, Reversed Flow ¹
125-502100-XXX	3/4" HAT/SP D-Port
125-512100-XXX	3/4" HAT/SP D-Port all S/S
125-712100-XXX	3/4" HAT/SP D-Port all S/S, Reversed Flow ¹

NOTES

- Reverse flow option for C-port is rated 150 PSIG (10.33 BAR); D-port is 70 PSIG (4.8 BAR)
- Standard open temperature, "XXX", is 105°F. Optional open temperatures, "XXX": 95°F, 100°F, 110°F, and 115°F.
 - Note: Closing temperature is typically 10°F below opening temperature
- All HAT/SP valve are covered by a 36 month warranty
- a #20 mesh strainer is recommended.

