



SCALD PROBLEMS?
CALL THE GURU
1-800-288-GURU

MODEL HAT/SP

FOR SCALD PROTECTION

HEAT ACTUATED TRAP/REVERSE ACTING



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.

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 100% factory tested and covered by a 36 month prorated warranty.

DESIGN FEATURES:

- ï **HAT/SP-105** meets OSHA temperature guidelines
- ï Stainless steel body, fittings, spring and plug
- ï Compact, low mass - Fast response
- ï Corrosion resistant - Long service life
- ï Most clog-resistant design available
- ï Unaffected by pressure variations
- ï Easy installation with pipe wrench
- ï Installs in any orientation
- ï Discharges the minimum amount of water required to keep water temperature within safe limits

OPERATION:

When the water temperature rises above safe limits, and a danger of scalding exists, the thermal actuator modulates the valve open. A small sample of the water from the pipe system then flows past the sensor. If the water is above the acceptable range, the valve will continue to modulate open until the overtemperature water is eliminated. When the makeup water temperature returns to the safe range, the valve then modulates closed, reducing waste water losses. The **HAT/SP** opens only when the water exceeds safe limits. The **HAT/SP-105** is full open at 105 F and remains open until water temperature is 95 F or below. The **HAT/SP-115** is full open at 115 F and closed at 105 F and below.

HATSP.5/99

SCALD PROTECTION VALVE MODEL HAT/SP

HEAT ACTUATED TRAP/SCALD PROTECTION

PARTS AND MATERIALS

ITEM	DESCRIPTION	MATERIAL
1	TUBULAR BODY	304 STAINLESS STEEL
2	INLET FITTING	303 STAINLESS STEEL
3	THERMAL ACTUATOR	F.M. BRASS *
4	ACTUATOR CARRIER	F.M. BRASS *
5	OPERATING SPRING	STAINLESS STEEL
6	REVERSE PLUG	303 STAINLESS STEEL
7	SEAT SEAL	PTFE
8	OUTLET FITTING	303 STAINLESS STEEL

* All stainless steel version available. Consult factory.

DIMENSIONS AND WEIGHTS

SIZE (NPTF)	D in (mm)	L in (mm)	WEIGHT Lb (Kg)
1/2"	1.13 (29)	4.50 (114)	0.7 (.32)
3/4"	1.38 (35)	5.50 (140)	1.2 (.54)

MAX. OPER. PRESS.	150 PSIG (10.5 BAR)	
MAX. OPER. TEMP.	200 F (93 C)	
FULL OPEN TEMP.	STD 105 F (40.6 C)	OPT** 115 F (46.1 C)
FULL CLOSED TEMP.	95 F (35.0 C)	105 F (40.6 C)
1/2" NPT HAT Cv	1.5	1.5
3/4" NPT HAT Cv	2.0	2.0

HOW TO ORDER:

Example: For a 1/2-inch valve that opens at 105 F.

Specify: 1/2 HAT/SP - 105

Size: _____

Full Open Temperature (F): _____

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

**Optional higher setpoint is available for areas where ambient temperatures normally exceed 95 F for extended periods

ñ For other cooling liquid applications ask for the HAT/RA and HAT/RA-LP product fact sheets.

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