

## AMBIENT VS. FLUID SENSING

FOR EMERGENCY SHOWER AND EYEWASH STATIONS

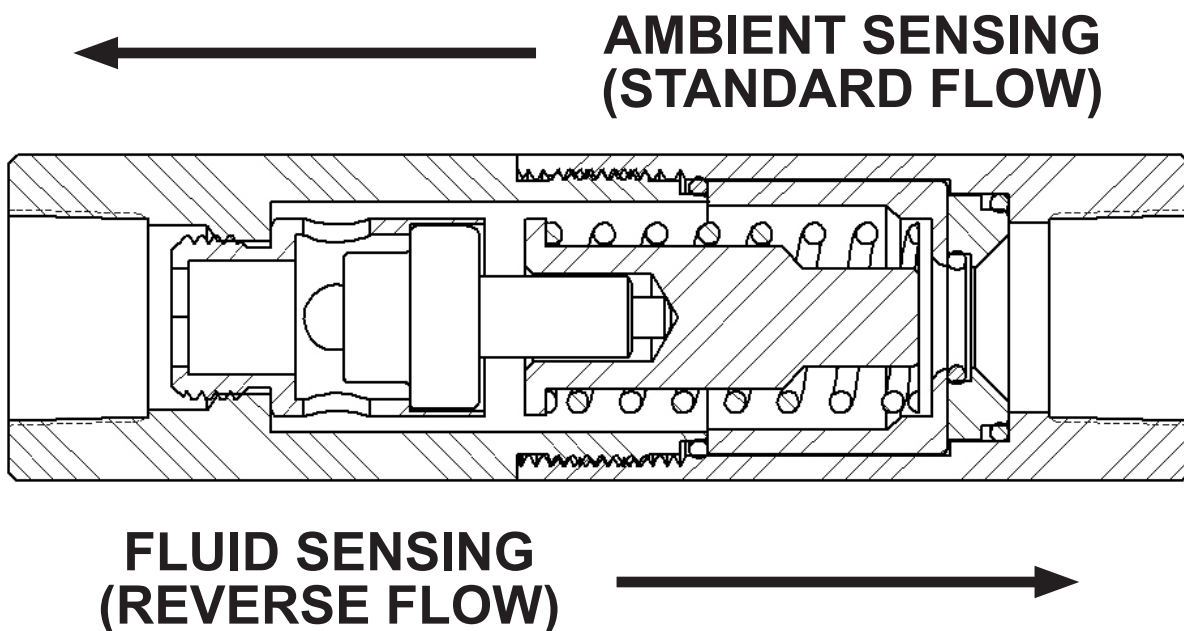


### DEFINITIONS

The **HAT/FP** freeze protection valve and **HAT/SP** scald protection valve can be installed in either the ambient sensing or fluid sensing orientation, depending on application needs.

**Ambient Sensing:** (AKA: *Standard Flow*) Valves installed in this flow direction will initially respond to the ambient temperature. Once the air temperature falls to the valve's set point, it will modulate open and establish flow. After establishing flow, the valve will respond to the fluid temperature. Only once the fluid temperature passing through the valve is above the set point will the valve modulate closed and become ambient sensing again.

**Fluid Sensing:** (AKA: *Reverse Flow*) Valves installed in this flow direction will only respond to changes in fluid temperature.



### ADVANTAGES OF EACH

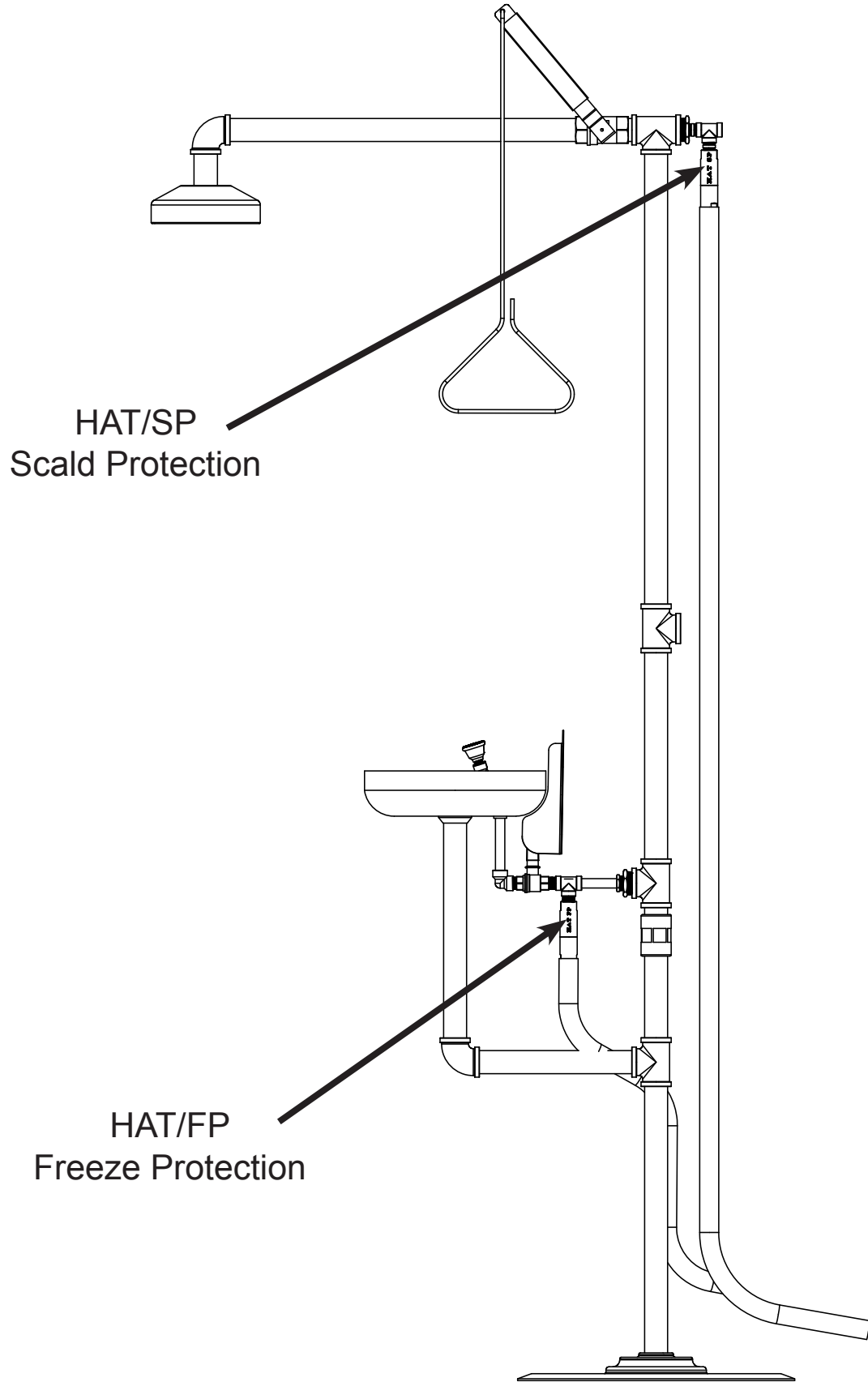
**Ambient Sensing:** responds to atmospheric temperature changes before fluid temperature changes; more conservative choice, opens sooner than fluid sensing on dropping temperatures; more tolerant of dirty water; good choice for warmer climates.

**Fluid Sensing:** use as a backup with insulated piping or heat tracing; good choice for colder climates - results in less nuisance dumping/draining.

For information on the HAT/FP freeze protection valve, visit: [www.thermomegatech.com/product/hatfp/](http://www.thermomegatech.com/product/hatfp/)

For information on the HAT/SP scald protection valve, visit: [www.thermomegatech.com/product/hatasp/](http://www.thermomegatech.com/product/hatasp/)

# SAMPLE INSTALLATION



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AS vs. FS  
Rev: 11/8/18

