INSTALLATION INSTRUCTIONS
HAT/FP & IC/FP FREEZE PROTECTION VALVES

If installed and maintained as recommended, the **ThermOmegaTech**® **HAT/FP** and **IC/FP** valves will yield reliable and trouble free service. ***It is important that before installing you read these instructions carefully.***

REMEMBER: The **FP** valve is full open at its stated temperature and full closed approximately 10°F above its stated temperature. Unless otherwise stated, these valves are supplied at their greatest standard Cv or flow rate. Smaller Cv's are available on request. See the product sheets.

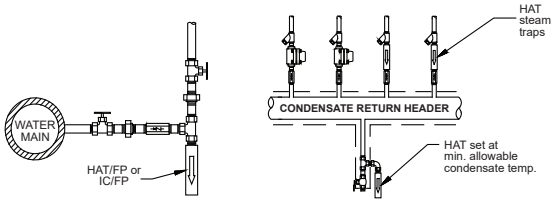
For the **IC version**, the valve should be installed into a minimum 1" Tee with a 1" x 3/4" NPT reducer bushing or a 1-1/4" x ¾" x 1-1/4" NPT reducer Tee (no bushing) with adequate internal clearance.

Never undersize installations. A #20 mesh strainer is recommended to use with all port sizes.

CAUTIONS

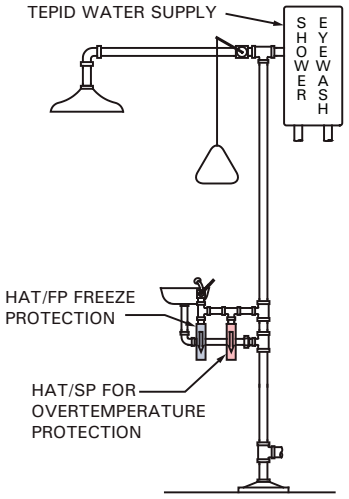
Use only standard and proper connections • Do not over-tighten connections • Always test after installation and before use
Always test before winter and summer seasons • Test at regular intervals

FP VALVES MAY SERVE AS PRIMARY PROTECTION ON UNTRACED SYSTEMS, OR AS A FAIL-SAFE BACKUP FOR TRACED WATER SYSTEMS: Always place freeze valves at low points or where water will tend to be static or prone to accumulate or dead leg. Keep outlet piping short and discharge to a large diameter drain or ditch. Never create an "ice patch" hazard by discharging to a slab or walkway. A preferred method of installation is to place the valve close to the point of discharge and connect with a run of piping from the line to be protected to the inlet side of the ***FP*** valve. Source and inlet piping may be insulated and/or traced, but never insulate or trace the valve body.



ON SAFETY SHOWERS AND EYEWASH STATIONS

Always keep pipe length short (with close nipple) between inflow piping and operating valve and place ***FP*** valve close to the operating valve.
REMEMBER: It is the flow of water that keeps the pipe from freezing (even short dead legs with freeze in severe conditions)



ON SOLAR APPLICATIONS

When using ***FP*** valves in a solar application a minimum 12" long dead leg must be added prior to the valve to help reduce residual high temperatures that approach or go over 300°F.

TO TEST FOR OPERATION WHILE IN LINE

Cool with freeze spray, CO_2 or ice and water slurry. Valve will start to run or drip until warm water reaches the actuator.

TO TEST FOR PROPER SET-POINT

Remove from system and place entire valve in an ice and water slurry at 33-34°F (0.6-1.1°C). The valve should open fully within 5 minutes. Move the valve to an ice and water slurry at 40-42°F (4.4-5.6°C). The valve should close bubble tight.

It should be understood that the use of these valves is not a substitute for regular and routine scrutiny of safe conditions. Installation and use of this product is outside the control of **ThermOmegaTech**® and is the sole responsibility of the end user. **ThermOmegaTech**® makes no guaranties, either expressed or implied, in connection with its installation or use.

WARNING: This product can expose you to chemicals, for example lead, nickel, acrylonitrile, which are known to the State of CA to cause cancer, birth defects, or reproductive harm. For more information, go to www.P65Warnings.ca.gov

Warranty information disclosed at www.thermomegatech.com/terms-conditions/

HAT-IC-FP_IMI
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