INSTALLATION INSTRUCTIONS
ITV

If installed and maintained as recommended, the **ThermOmegaTech® ITV** will yield reliable and trouble-free service.

IMPORTANT: Before installation, please read and understand these instructions.

REMEMBER: These valves are fully open at their stated temperature and fully closed approximately 10°F lower. A #20 mesh strainer is recommended where needed.

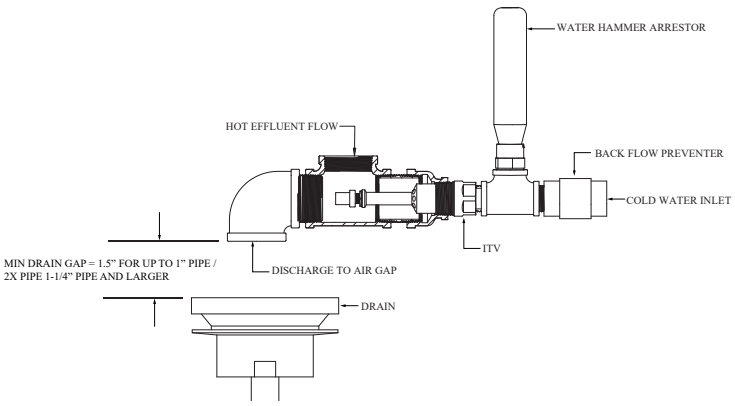
NOTE: A WATER HAMMER ARRESTOR MUST BE INSTALLED DIRECTLY BEHIND THE VALVE WATER SUPPLY INLET AS SHOWN IN THE SAMPLE INSTALLATIONS WHEN ANY TYPE OF CHECK VALVE OR BACK FLOW PREVENTER IS USED PER CODE. FAILURE TO DO SO MAY CAUSE PERMANENT DAMAGE TO THE VALVE AND VOID THE WARRANTY.

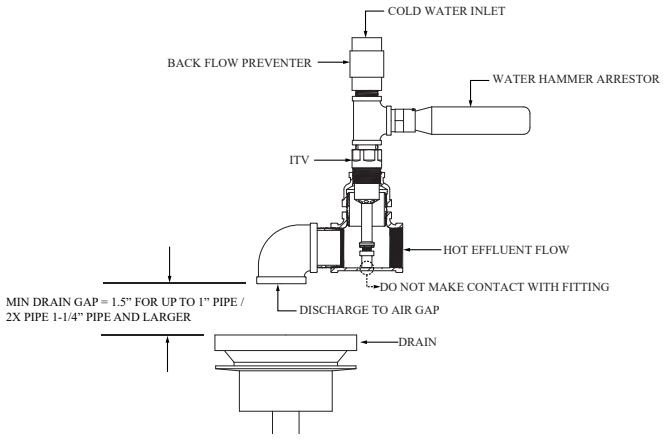
NOTE: MAXIMUM ALLOWABLE TEMPERATURE OF SENSING ACTUATOR IS 250°F (121°C).

NOTE: For applications up to 200°F (93.3°C) drain water, CPVC (or copper for metal) should be used. For application temperatures above 200°F (93.3°C), metal piping is recommended.

NOTE: The response time of the ITV depends on the temperature differential it senses. The greater the difference from its setpoint, the faster the ITV will open. Response times can range from 2 to 20 seconds, depending on the magnitude of the temperature change and the ITV's age or condition. Effluent with a temperature above the ITV's setpoint may pass during this response period. Allowing for a mixing chamber, or extended lengths of temperature-resistant piping, prior to the drain should be a consideration.

1. The **ITV** is a self-operating, temperature actuated valve designed to add cold water in response to elevated liquid temperature to maintain effluent within code requirements before entering the drain.
2. The **ITV** should typically be installed as close to the outlet of the "hot source" as possible in order to allow the cold water to fully mix before running down the drain.
3. The **ITV** is installed with the thermal actuator end inserted into the drain line and the cold water inlet connected to the valve's ¾" or 1" NPT female threaded connection.
4. Ensure that the thermal actuator end does not touch the opposite side of the fitting.
5. To assure adequate response and cold-water flow, especially in low flow applications, the thermal actuator should be installed so that even the minimum hot effluent flow fully wets the actuator end of the valve. **See drawings below**.
6. ThermOmegaTech offers a water hammer arrestor and backflow preventer. Contact sales for pricing or check local plumbing codes as to the type of check valve or backflow preventer that may be required. Refer to drawings below to comply with plumbing code air gap requirements.





Proper Use: Use ThermOmegaTech® products only as specified to ensure performance, safety, and regulatory compliance.
No Modifications: Do not modify ThermOmegaTech® products, as changes may void warranties and violate regulations (e.g., RoHS, REACH).
Proper Disposal: Dispose of end-of-life products per local hazardous substance regulations; contact ThermOmegaTech® or recycling facilities for guidance.

⚠ 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/

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REV: 8/31/2026