

## INSTALLATION INSTRUCTIONS DTV

If installed and maintained as recommended, the **ThermOmegaTech DTV** valve will yield reliable and trouble free service.

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

**REMEMBER:** These valves are full open at its stated temperature and full closed approximately 10°F lower. A #20 mesh strainer is recommended to use with all port sizes.

**NOTE: MAXIMUM ALLOWABLE TEMPERATURE OF SENSING ACTUATOR IS 250°F (110°C).**

1) The DTV valve is a self-operating temperature actuated valve designed to respond to elevated drain temperature and allow cold water to flow into the drain to keep the drain effluent below the maximum allowable temperature.

2) The DTV valve 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 DTV valve is typically installed with the sensor/actuator end inserted into the drain line and the cold water inlet connected to the valves ½”, ¾”, or 1” NPT female threaded connection.

4) **CAUTION: MAKE SURE THAT WATER INLET FITTING THAT SCREWS INTO DTV VALVE HAS LARGE ENOUGH I.D. AND SHORT ENOUGH LENGTH SO IT DOES NOT INTERFERE WITH VALVE PLUG MOVEMENT.**

Cold water inlet fitting must have the following minimum I.D. to avoid interference with valve movement:

½” DTV: 0.622 in. (1.58cm)      ¾” DTV: 0.69 in. (1.75cm)      1” DTV: 1.044 in. (2.65cm)

5) Ensure that the actuator end does not touch opposite side of fitting.

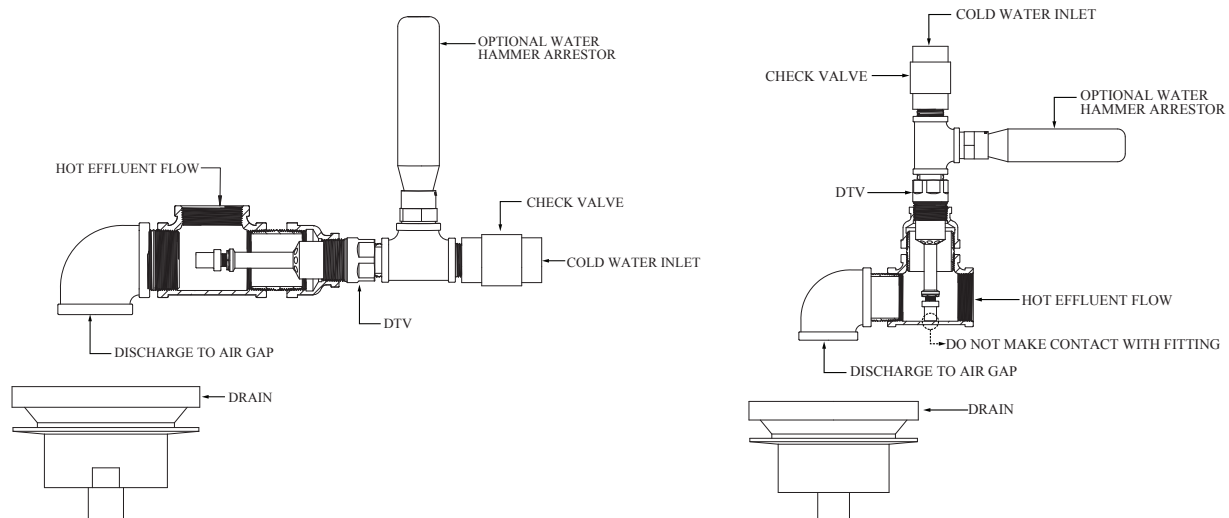
6) Especially in low flow applications, to assure adequate response and cold water flow, the sensor/actuator should be installed so that even the minimum hot effluent flow fully wets the actuator end of the valve. The installation drawings below show two typical ways to accomplish this.

7) In most cases, a check valve is recommended on the cold water inlet to the DTV valve. 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

8) If noise or vibration occurs during DTV valve operation, add a water hammer arrestor immediately ahead of the DTV.

### **CAUTIONS:**

Use only standard and proper connections \* Do not over-tighten connections \* Always test after installation and before use \* Test at regular intervals



### **WARRANTIES AND DISCLAIMERS:**

**ThermOmegaTech Inc.** warrants this product to be free from defects in material and workmanship for a period of 36 months. Cost of replacement will be prorated on the basis of the issue date of each unit. Units found to be defective will be replaced on a one to one basis, FOB Warminster, PA USA. Installation and use of this product is outside the control of **ThermOmegaTech Inc.**; therefore, **ThermOmegaTech Inc.** disclaims any and all liabilities arising from its installation and or use, and furthermore, **ThermOmegaTech Inc.** makes no guarantees, either expressed or implied, in connection with its installation or use.

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