ThermOmegaTech®

ITV

INDUSTRIAL TEMPERING VALVE

BENEFITS

- Compliant with drain temperature limitations of plumbing codes
- Prevents damage to PVC piping due to over-temperature conditions
- Self-operating, no power or signal required
- Minimizes water waste
- Easy to install
- Adaptable to almost any drain size



DESIGN FEATURES

- Exclusive **Thermoloid**® thermal actuator
- Rugged, clog resistant valve design
- Install using standard pipe fittings and tools
- Operates in any orientation
- Modulates to conserve cooling water
- Effluent tempering capacity limited only by cold water flow rate through ITV

APPLICATIONS

The ITV is ideal for tempering high-temperature discharge flow such as water, condensate or leachate with cold water before it enters a drain or sewer system.

Common applications include:

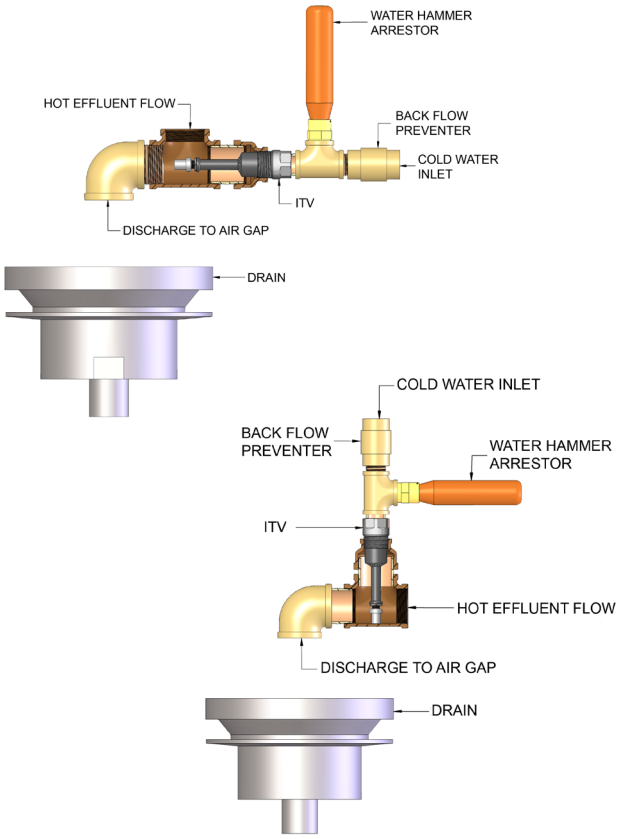
- Autoclave discharge
- Boiler blowdown drain lines
- Humidifier discharge

OPERATION

The **ITV** is installed into the drain line such that the hot effluent passes over the thermal actuator of the **ITV** and this thermal actuator controls the cold water inlet port. If the hot effluent is above the specified set-point, the **ITV** opens to allow injection of cold water. As the hot effluent cools, the **ITV** automatically modulates to reduce the cold water inlet flow. At 10°F below the full open temperature, the cold water inlet is fully closed to conserve water.

Since the **ITV** is open only when the effluent exceeds the specified set-point temperature, it conserves water by automatically turning off cold water when not needed.

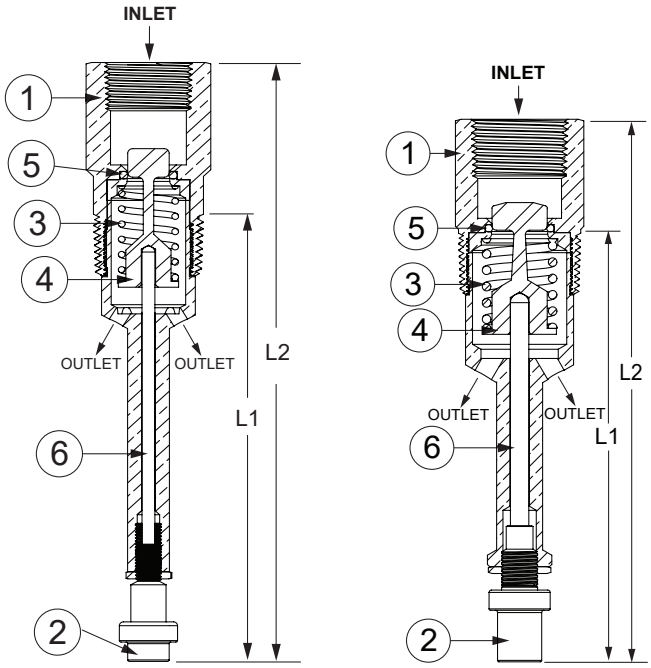
TYPICAL INSTALLATIONS



ITV

INDUSTRIAL TEMPERING VALVE

PARTS & MATERIALS



3/4″ ITV 1″ ITV

ITEM	DESCRIPTION	MATERIAL
1	VALVE BODY	300 Series SS
2	THERMAL ACTUATOR	300 Series SS
3	OPERATING SPRING	300 Series SS
4	RAM-TYPE PLUG	300 Series SS
5	SEAT SEAL	PTFE
6	PISTON	300 Series SS

DIMENSIONS & CAPACITIES

SIZE (NPT)		L1		L2		Weight		C_v	Maximum Inlet Water Pressure	Maximum Temperature
Cold Water Inlet	Drain Connection	in	mm	in	mm	Lb	Kg			
3/4″	1″	5.9	149	7.9	200	1.2	0.5	2.0	125 PSIG (8.6 BAR)	250°F (121°C)
1″	1-1/4″	5.8	148	7.4	187	1.5	0.7	4.0		

ORDERING

Part Number[1]	Description
1055-100000000-XXX	¾″ ITV Valve
1055-200000000-XXX	1″ ITV Valve

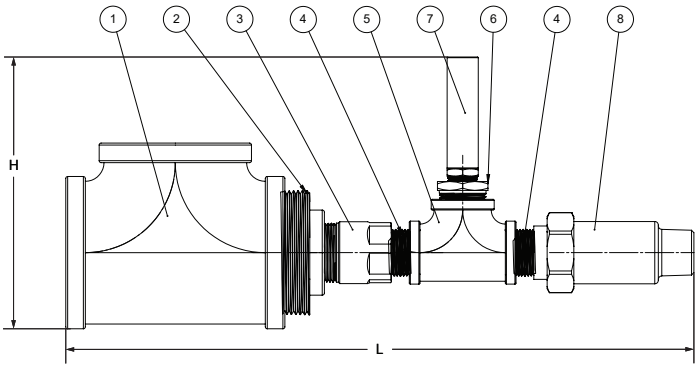
NOTES

1. Full open temperatures "XXX" available: 120°F, 125°F, 130°F, and 140°F (48.9°C, 51.7°C, 54.4°C, and 60°C).
   a. Other temperatures are available, consult our engineers for more information.
   b. Closing temperature is typically 10°F below opening temperature.
2. Warranty information disclosed at www.thermomegatech.com/terms-conditions/

ITV

INDUSTRIAL TEMPERING VALVE KIT

PARTS & MATERIALS



ITV Kit with Tee

ITEM	DESCRIPTION	MATERIAL
1	TEE	300 Series SS
2	BUSHING	300 Series SS
3	ITV	300 Series SS
4	CLOSE NIPPLE	300 Series SS
5	TEE	300 Series SS
6	BUSHING	300 Series SS
7	WATER HAMMER ARRESTER	300 Series SS
8	DUAL CHECK VALVE	300 Series SS

DIMENSIONS & CAPACITIES

SIZE (NPT)		H		L		Weight		C_V	Maximum Inlet Water Pressure	Maximum Temperature
ITV Size	Tee Size	in	mm	in	mm	Lb	Kg			
3/4″	2″	9.0	229	19.0	483	7.6	3.4	2.0	125 PSIG (8.6 BAR)	250°F (121°C)
1″	2″	9.0	229	19.0	483	7.9	3.6	4.0		

ORDERING

Part Number[1]	Description
1055-100000002-XXX	¾″ ITV Kit with 2″ Tee
1055-200000002-XXX	1″ ITV Kit with 2″ Tee

NOTES

1. Full open temperatures "XXX" available: 120°F, 125°F, 130°F, and 140°F (48.9°C, 51.7°C, 54.4°C, and 60°C).
   a. Other temperatures are available, consult our engineers for more information.
   b. Closing temperature is typically 10°F below opening temperature.
2. Warranty information disclosed at www.thermomegatech.com/terms-conditions/

NEED HELP WITH SIZING?

Scan the QR Code to utilize our flow rate calculator!

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Because of continuous improvements, ThermOmegaTech®, Inc. reserves the right to change the design and specifications without notice