

Stay Out Of Hot Water With DTV!

ThermOmegaTech's Drain Tempering
Valve Keeps Drain Water Up to Code



Discharging water over 140°F from commercial equipment can result in failed inspections, costly fines, or piping and equipment damage. ThermOmegaTech's self-operating Drain Tempering Valve (DTV) offers a simple solution—automatically mixing in cold water when temperatures exceed the set point, then shutting off once cooled to conserve water.

Available in 1/2", 3/4", and 1" brass or stainless steel, the DTV is a compact, reliable, & cost-effective way to temper hot effluent to safe, code-compliant levels.

MARKETS SERVED



Schools and
Universities



Restaurants and
Brewpubs



Hospitals and
Healthcare Facilities



Hotels and
Hospitality

TYPICAL APPLICATIONS

- Commercial Kitchens and Dishwashers
- Sterile Processing Equipment
- Mechanical Rooms

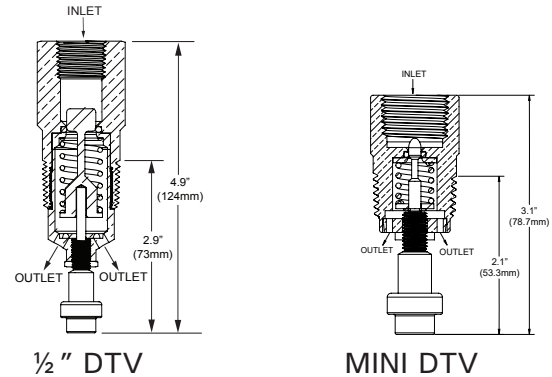
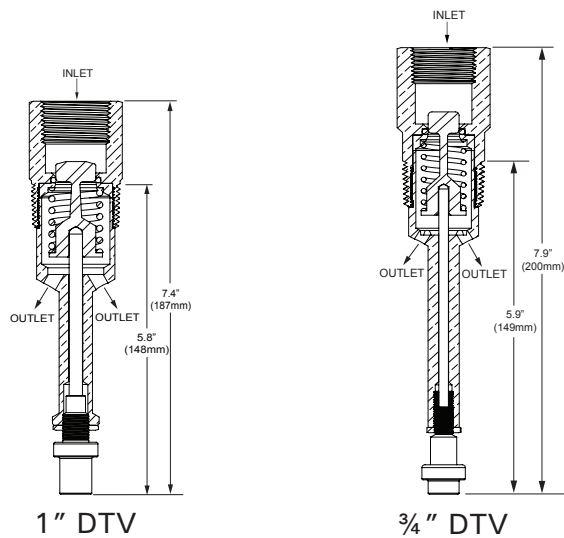
See ThermOmegaTech's DTV in action at CircuitSolver.com/DTV



ThermOmegaTech®

(877) 379-8258 | www.ThermOmegaTech.com





SPECIFICATIONS

Maximum Inlet Pressure.....125 PSIG (8.6 BAR)
 Maximum Temperature.....250°F (121°C)
 Full Open Temperatures.....120°F, 125°F, 130°F, 140°F
 (48.9°C, 51.7°C, 54.4°C, 60°C)

Weight	Flow Coefficient
Mini ½" ...0.4Lbs (0.18Kg)	Mini ½" ...0.5
½"1.1Lbs (0.5Kg)	½"2.0
¾"1.2Lbs (0.5Kg)	¾"2.0
1"1.5Lbs (0.7Kg)	1"4.0

Size (NPT)	Water Inlet	Drain Connection
Mini ½" ...¾"	Mini ½"	¾"
½"	½"	½"
¾"	¾"	¾"
1"	1"	1-1/4"

BENEFITS

- Rugged, clog resistant valve design
- Easily installed using standard pipe fittings and tools
- Operates in any orientation
- Minimizes water waste
- Modulates to conserve cooling water
- Effluent tempering capacity limited only by cold water flow rate through DTV

ORDERING INFORMATION

325-000000-XXX ½" DTV Brass
325-100000-XXX ½" DTV Stainless Steel
326-000000-XXX ¾" DTV Brass
326-100000-XXX ¾" DTV Stainless Steel
327-000000-XXX 1" DTV Brass
327-100000-XXX 1" DTV Stainless Steel
328-000000-XXX Mini ½" DTV Brass

NOTES

Install a water hammer arrestor between the DTV and check valve/backflow preventer to prevent damage to the DTV. Failure to do so will void the warranty. Optional arrestors and backflow preventers are available—[contact us](#) for details.

SAMPLE CALCULATION

How much effluent can be tempered with a 1" DTV valve?

- 1) Flow capacity through cold water port of 1" DTV with $C_v = 4.0$:
 $CW\ GPM = C_v \times \sqrt{\text{pressure drop}}$
 Assume 50 PSIG cold water pressure, drain pressure = 0 PSIG
 $CW\ GPM = 4 \times \sqrt{50} = 28.3\ GPM$
 Assume for this example:
 Cold water temp = 60°F (CT)
 Hot effluent temp = 212°F (HT)
 Max. allowable drain temp = 140°F (MT)
- 2) Maximum effluent flow (GPM) that can be tempered:
 $CW \times (MT - CT) / (HT - MT)$
 $MT - CT = 80$
 $HT - MT = 72$
 Maximum effluent flow rate = $28.3 \times 80 / 72 = 31.4\ GPM$

TYPICAL INSTALLATIONS

