



1255 N. HAMILTON RD BOX 219 GAHANNA, OH 43230 PHONE: 614-483-5337

## DTV-MINI / DRAIN TEMPERING KIT FOR USE WITH HOT WELLS ONLY

### DESIGN FEATURES

- ❖ Rugged, clog resistant valve design
- ❖ Easily installed using the included standard pipe fittings
- ❖ Operates in any orientation
- ❖ Minimizes waste water
- ❖ Modulates over operating temperature range to conserve cooling water
- ❖ Effluent tempering capacity limited only by cold water flow rate through DTV



### TYPICAL USES

- ❖ Hot wells only.

### APPLICATIONS

The DTV-Mini is drain tempering kit specific to use on hot wells. Each DTV-Mini kit can cool up to a 6 well hot well unit. The DTV-Mini provides a convenient, economical, and easy to use method of tempering hot effluent flows from hot wells. Since the DTV is open only when the effluent exceeds the specified set point temperature, it also conserves water by automatically turning off cold water when not needed.

### OPERATION

The hot effluent to be tempered is connected to the drain/sewer line using the included tee fitting and piping. See sample calculation below and typical installation drawing on next page. The hot effluent passes over the thermal actuator of the DTV valve and this actuator controls the cold water inlet port. If the hot effluent is above the specified set-point, the DTV opens the cold water inlet port to allow injection of cold water. As the hot effluent cools, the DTV valve automatically modulates to reduce the cold water inlet flow. At about 10° F below the full open temperature, the cold water inlet is fully closed to conserve water.

### SAMPLE CALCULATION

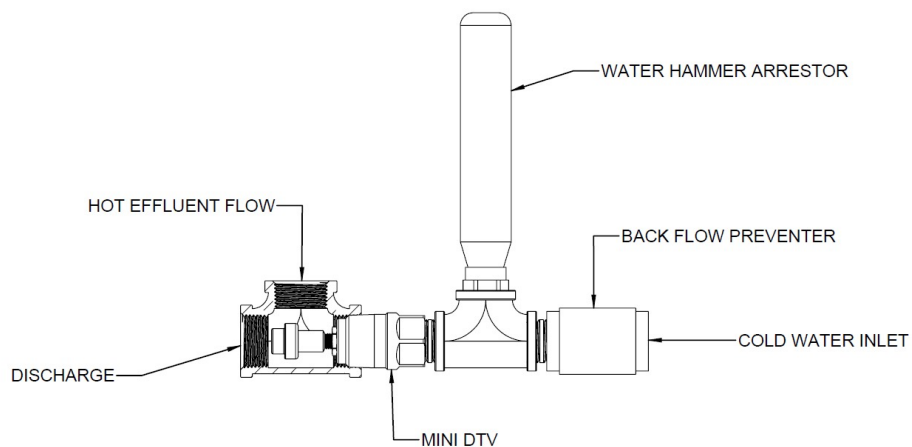
Flow capacity through cold water port of 1/2"

DTV-Mini with Cv=0.5

$CW \text{ gpm} = Cv \times \sqrt{\text{pressure drop}}$

With a hot effluent temp of 212F, 60F cold water at 50 psi, the DTV-Mini can cool up to 4 gpm.

## Parts and typical installation:



### DTV-Mini Drain Tempering kit includes the following parts:

- 3/4" brass tee
- DTV- Mini valve with 1/2" cold water connection
- Brass nipple, tee, mini restor
- 1/2" dual check valve
- Mounting adapters to tie into the manifolded drain line of the hot wells, 3/4" nipple, coupling, 3/4x1/2 adapter

To order any of these kits, or custom kits, please call Cool Drain Flow, Inc.

614-483-5337