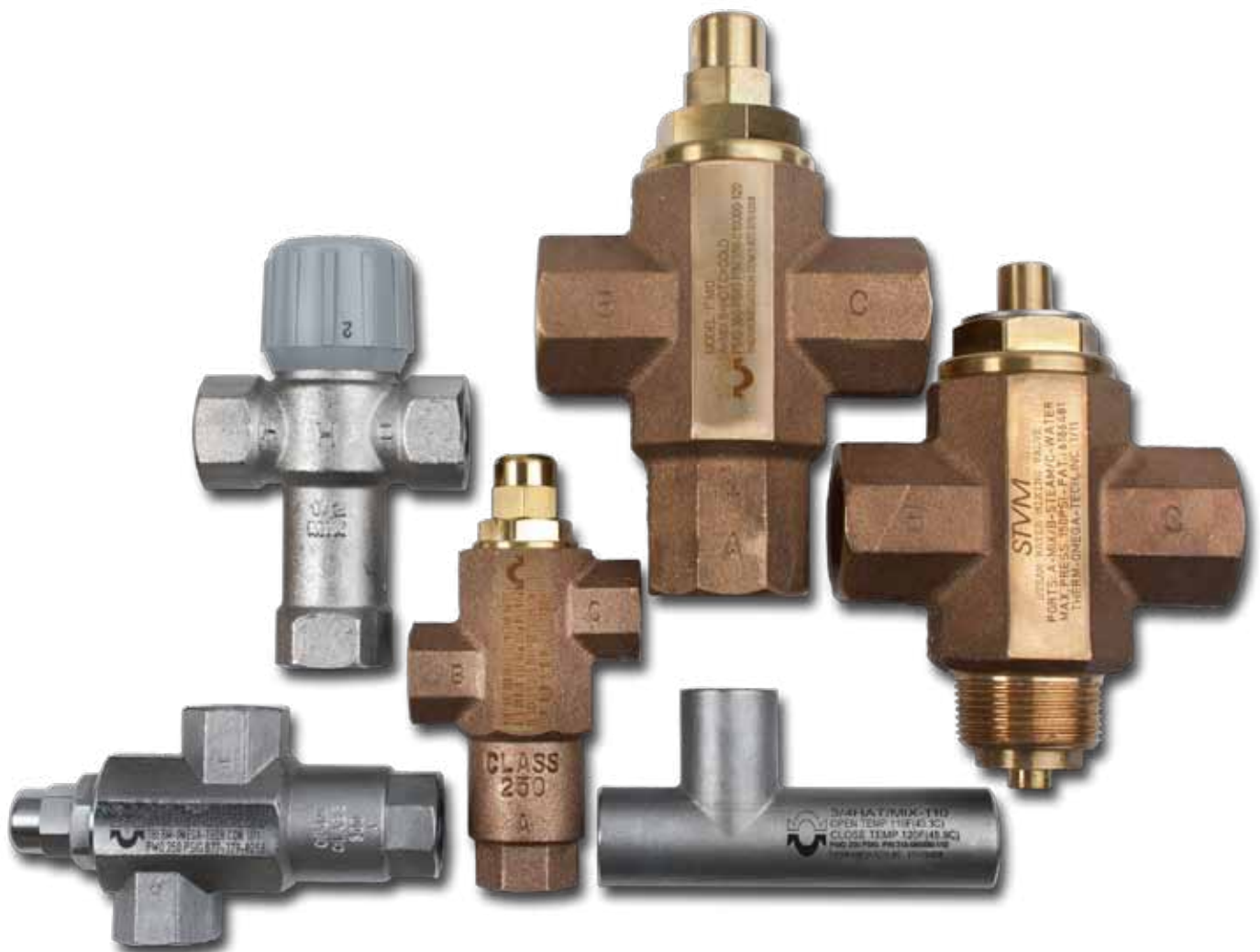




Therm-Omega-Tech, Inc.

Mixing and Diverting



The Most Advanced, Reliable and Compact Self Contained Valves Available for Temperature Control, Freeze Protection, Steam Tracing and Conservation of Energy

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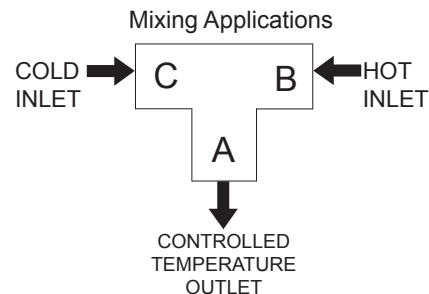
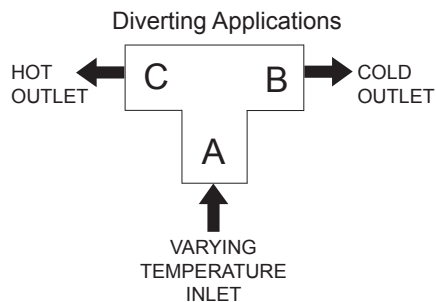
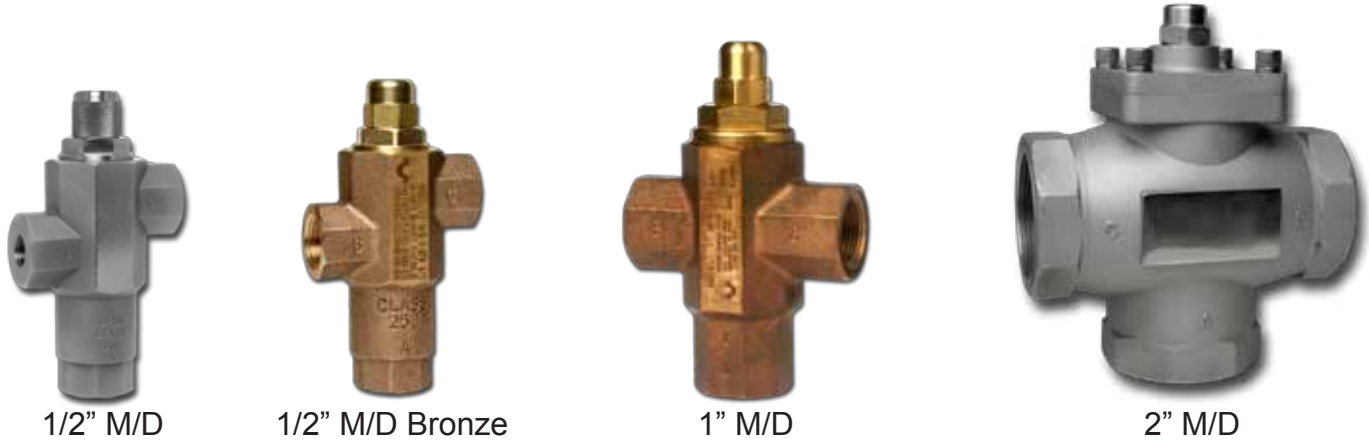


Mixing and Diverting Valves

3 WAY MIXING/DIVERTING VALVES (M/D) valves have internal port switching devices which automatically mix or divert fluids in proportion to temperature in any fluid based system. They come in brass and bronze housings, with NPT sizes from 1/2" to 2". Adjustable and pre-calibrated models available. Special connections, configurations or materials also available for OEM requirements. Nominal operating temperatures from 55°F to 240°F (13°C to 116°C).

For mixing applications, the M/D will proportion the flow from two inlet ports to produce the desired outlet port temperature.

For diverting applications, the M/D will divert or switch the inlet flow to either of two outlet ports depending on the fluid temperature.



HAT/MIX

The **HAT/MIX** valve can be used in any application in which water/water or steam/water (up to 1 gpm) are mixed to a specified temperature. These valves, like any mixing valve, must be installed with check valves on both hot and cold inlets. Pressure reducing valves (PRV's) are recommended on **HAT/MIX** installations in which system pressures are likely to vary.

This self-contained valve is designed around a thermal actuator that automatically adjusts the steam or hot water component to temper outflow water to the specified temperature. The device is factory set and is not user adjustable, and is therefore tamper-proof. The valve is designed to yield outflow temperatures within a given range. If water is inadvertently not turned on, the actuator turns off the steam flow at the set point temperature.



HAT/MIX-R

The **HAT/MIX-R** controls cooling of hot fluid to desired level before return to system or discharge to sewer. Flow through design facilitates discharge. Automatic temperature compensation conserves tempering fluid. The hot fluid connects to the side, pass through connection on the **HAT/MIX-R** valve. This connection is never regulated so it always remains open regardless of temperature or valve position.

The hot fluid flow then passes over the thermal actuator which controls the cold fluid inlet port for tempering. If the hot liquid temperature is above the valve setpoint, the cold fluid port is open. As the hot liquid cools, the valve automatically modulates to reduce the cold fluid inlet flow. If the hot fluid is below the specified temperature, the cold fluid inlet port is closed, since no additional cooling is required.



STVM®

Therm-Omega-Tech's STVM® valve uses unique vortex technology for silent operation. During operation, cold water enters the mixing valve and forms an inner vortex that moves from the inside out, while incoming steam forms an opposing outer vortex that moves from the outside in. Mixing occurs as the two vortices collide, thoroughly mixing and heating the water to the desired temperature.

What's especially remarkable about vortex technology is what you don't hear - the banging, popping, and crackling noises that come from ordinary mixing valves. That means there's none of the racket that can add stress to the work environment, and none of the cavitation that can cause premature wear.



SPARCO-MIX

The **SPARCO-MIX VALVE** has a precise temperature output with varying input temperatures, even in recirculation systems. It has a fast response with no setpoint drift. **SPARCO-MIX** valves offer anti-scald, anti-chill protection, as required by many new plumbing codes.

SPARCO-MIX valves simultaneously control both hot and cold ports, to automatically and accurately proportion the flow in response to fluid temperature. On loss of cold or hot fluid supply the flow rate is reduced to a trickle. For fast response, these valves are compact and low mass.



DTV

The **DTV** valve provides a convenient, economical, and easy to use method of tempering hot effluent flows. Since the **DTV** is open only when the effluent exceeds the specified setpoint temperature, it also conserves water by automatically turning off cold water when not needed. The hot effluent to be tempered is connected to the drain/sewer line using a suitably sized tee fitting and piping sized to handle the effluent flow rates. 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 setpoint, 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.



Therm-Omega-Tech, Inc. is an Industry Expert and Leading Manufacturer of Custom Thermostatic Valves, Actuators and Controls serving domestic and international markets for over 25 years.



For sales and technical assistance:

Call: 1-877-379-8258 or 215-674-9992

Fax: 215-674-8594

E-mail valves@ThermOmegaTech.com

Web www.ThermOmegaTech.com

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