



RADIANT HEATING SYSTEMS

THREE-WAY MIXING VALVE

SELL SHEET



Three-way Mixing Valve

Introducing the Uponor Three-way Mixing Valve

The Uponor Three-way Mixing Valve is a microprocessor-controlled valve designed to regulate the supply water temperature to a radiant heating system by modulating the position of the valve.

Control Features

- Outdoor temperature reset
- Optional boiler protection
- Optional fixed setpoint control
- Optional manual operation
- Warm weather shutdown (WWSD)
- Adjustable heating curve
- Low voltage

Uponor Advantage

- Low-cost packaged mix control solution
- Easy configuration via dip switches; no display or menus to manipulate

Part No.	Part Description
A3040075	¾" Three-way Mixing Valve
A3040100	1" Three-way Mixing Valve

Frequently Asked Questions

Why do I need boiler protection?

Some boilers do not allow condensing and must operate at temperatures above 135°F (57.2°C). Refer to the boiler manufacturer's operating manual to determine if boiler protection is required. Refer to the Uponor Three-way Mixing Valve Installation Guide to enable or disable this function.

Do I need to have an outside air temperature sensor?

No. If there is no outside air temperature sensor wired to the Three-way Mixing Valve (or if the sensor fails) the Three-way Mixing Valve will use 32°F (0°C) as a fixed reference.

How is the supply water reset?

When the outdoor air temperature drops 1°F, the supply temperature will increase from 0.2°F to 2.2°F as determined by the reset dial on top of the actuator.

Why is the valve not open when the thermostat is calling for heat?

There is a supply sensor failure or the Three-way Mixing Valve is in boiler protection mode. Refer to the Three-way Mixing Valve Installation Guide for troubleshooting.

Why do I need reset control?

When the outdoor air temperature decreases, the heat loss increases, requiring more heat to satisfy the heat load. As the outdoor temperature increases, the heat loss decreases. Reset provides an efficient automatic optimized control of the supply water to prevent inadequate heating or overshooting space temperatures as the load changes.

Can I use the Three-way Mixing Valve on baseboard radiators or fan coils?

Yes. Refer to the Three-way Mixing Valve Installation Guide to configure the proper operating temperatures for the specific equipment.

Do I need to have another controller to modulate the valve?

No. The Uponor Three-way Mixing Valve is a complete packaged valve controller. Wiring the Three-way Mixing Valve through an end switch or to the heating terminal of the thermostat will enable the valve functions.

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