

PRODUCT SUBMITTAL 435

Product: **Modulating Mixing Valves**
Date **16 January 2013 (supersedes 15 December 2010)**



Article No.	Nominal Connection Size	Cv
298016-001	3/4 in. 3-way Modulating Mixing Valve (Copper Sweat)	4.5
298026-001	1 1/4 in. 4-way Modulating Mixing Valve (FPT)	17.5

FUNCTIONAL DESCRIPTION

These self controlled outdoor reset mixing valves are a microprocessor-based motor operated valve designed to regulate the supply water temperature to a heating system, based on a reset ratio, by modulating the position of the valve so that the heat supplied to the building or zone equals the heat lost by the building. With a full-featured outdoor reset control built into the motorized actuator, these valves combine into one compact unit what formerly required separate and expensive reset control, motor drives and valve body.

Size valve based on Cv rating for required demand. The power to the modulating mixing valve is typically supplied continuously via a 24 V transformer but can be switched through an end switch (REHAU electronic controls) or directly via a thermostat.

The valve features a simple DIP switch for:

- Selectable maximum supply temperature (110°F, 130°F, 150°F or OFF) to support all types of jobs, from high mass overpour to joist space
- Selectable minimum supply temperature (85°F when maximum supply temperature is set to 150°F or OFF)
- Adjustable minimum boiler return temperature (120°F, 135°F or OFF)
- Warm weather shutdown (70°F or OFF)
- Adjustable (outdoor reset) heating curve (02 to 2.22)

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Features:

- Operates off constant power or relay end switch
- Simple DIP switch programming
- Ball valve design with high Cv (3-way only)
- Manual operation button
- Solid state microprocessor design
- Compact design
- Easy, one-handed actuator removal
- 125 psi shut-off pressure (3-way only)
- Plug-in low voltage connections
- Multi-status LED indicator lights
- Fail safe mode
- Sensors included

Specifications:

- Maximum operating pressure: 300 psi (2,100 kPa)
- Fluid temperature range: 20 to 240°F (-7 to 115°C) @ 135°F (57°C) ambient
- Ambient conditions: Indoor use only, <90% RH non-condensing