CONTROL VALVES

MODULATING POPTOP ZONE VALVES **VM SERIES**



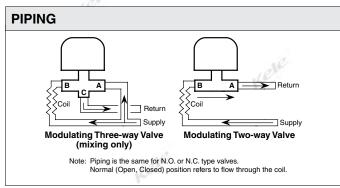
DESCRIPTION

The Schneider Electric VM Series Modulating PopTop™ Zone Valves offer a wide variety of Cv ranges and control signal options for hot and chilled water. The PopTop walves are designed with removable actuators with tri-state or proportional control and either non-spring or spring return action. The valves are available in two- and three-way body patterns, 1/2" to 1-1/4" sizes, and in NPT or sweat pipe connections. An optional motor timeout actuator is available for controllers that do not automatically turn off their signals after the full stroke of the valve.

FEATURES

- · Two- or three-way mixing body patterns
- · Removable and replaceable actuator
- NPT or sweat connections
- Manual override





Time-out option (tri-state actuator) Non-spring or spring return actuators

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1/2", 3/4", 1", 1-1/4" Size

Cv Range 1.0 to 8.0

Connections FNPT, Sweat, or 1/2" SAE flare valve

body connections

Flow Characteristic Equal Percentage for Cv 1 to 4; linear

for Cv 7.0 to 8.0

ANSI Class IV (0.01% of rated Leakage Rating

capacity)

Maximum Closeoff Pressure

Cv 1.0: 50 psid (344 kPa) Cv 2.0: 50 psid (344 kPa), 20 psid (137 kPa) spring return Cv 4.0: 35 psid (241 kPa), 20 psid (137 kPa) spring return Cv 8.0: 35 psid (241 kPa), 15 psid (103 kPa) spring return

Maximum Pressure Rating

300 psig (2067 kPa)

Materials Of Construction

Brass valve body and seat, chromeplated stem, thermoplastic plug;

high-temperature plastic actuator

Media Compatibility Hot or chilled water; 50% or less

ethylene glycol

Media Temperature Range

32° to 200°F (0° to 93°C) 24 VAC ±15% @ 10 VA (max),

50/60 Hz

Signal Input AT actuators: tri-state (floating);

> AP actuators: proportional (0-5, 0-10, 5-10 VDC or 4-20 mA) jumper

selectable

Input Impedance 200 kΩ (0-10 VDC); 300Ω (4-20 mA)

Wiring Terminals

Actuator Mounting

Action Two-way valves: N.O./N.C.

> determined by choice of actuator; three-way valves: use only N.C.

actuator

Actuator Compatibility AT (tri-state) or AP (proportional 0-10

VDC, 4-20 mA) type actuators only

Poptop[®]

Drive Time 150 seconds @ 60 Hz **Spring Return Time** 9 seconds maximum

Manual Override Combination override lever and position indicator, all actuators

Operating Temperature Maximum ambient 125°F (52°C) **Operating Humidity** 5 to 95% RH non-condensing

Enclosure Rating NEMA 1

Weight Valve plus actuator assembly,

<1.9 lb (0.86 Kg)

UL File #E9429 CSA C22.2 No. 24; **Approvals**

CE, C-Tick

Warranty 2 years





Supply Voltage

