

31050 **Thru** 31058 Submittal

1/2" through 1-1/4" Zone Valve 2 way and 3 way bodies 24 Volt through 277 Volt



Function

Z-one valves are used to automatically shut-off the flow or redirect hot and chilled water in hydronic heating and air conditioning systems. The motorized two position, on/off, spring return Z1 series actuator has a end mounted push button for quick installation to valve body. The actuator is equipped with or without auxiliary switch and configured Normally Closed or Normally Opened with wire or terminal connections. The zero leakage high temperature zone valve body Z2 series is 2-way straight through and the valve body Z3 series is 3-way diverting. The Z1 series actuator is easily attached by a push button lock and without tools. The high temperature and high close-off performance characteristics of these zone valves, combined with the compact size, makes them suitable to fit inside baseboard or directly in fan coils units.

Technical specification Valve body

Material: - body: forged brass

- seat: machined brass
- stem: stainless steel
- two o-ring seals and paddle: EPDM Flow: 1 to 7.5 Cv (0.9 to 115°C) Medium: water and glycol, low pressure steam

Maximum percent of glycol: 50% Temperature range: 32 to 240°F (0 to

Max. static pressure: 15 psi (1 bar)

steam

300 psi (20 bar)

Max. closeoff ⊗pressure: 20 to 75 psi

(138 to 517 kPa)

Connection: - sweat: 1/2", 3/4" 1" & 1

- NPT female: 1/2", 3/4" & 1"

- SAE flare: 1/2"

- inverted flare: 1/2", 3/4" & 1" sweat

Actuator

Material: - base and cover: polycarbonate

- base plate: aluminum

Motor: - AC voltage: 24 V - 120 V - 208 V - 230 V - 277 V; 50/60 Hz Power requirements: 5.0 W, 7 VA Power connections: - Terminal screws with auxiliary switch: 24 V only - Wire lead length: 18" (45 cm), 24 V

6" (15 cm), 120, 208, 230, 277 V Auxiliary switch: 0.0 A min, 0.4 A max, 24 V (24V only)

5.0 A, 250 V (120, 208, 230, 277 V actuators)

Ambient temperature range: 32 to 104°F (0 to 40°C) 24, 120 V 32 to 170°F (0 to 77°C) 208, 230, 277

Humidity: 95% non-condensing Full Stroke Time: - On: <60 seconds

Project Name:
Engineer:
Submitted By: