

# Motorized Zone Valves

## VC Series Linear/Modulating Cartridge Cage 2-way Zone Valve



**Approximate, Dimensions:** 3 9/16 in. high x 2 3/4 in. wide x 3 3/4 in. long (111 mm high x 68 mm wide x 89 mm long)

**Coupling Controller:** Integral

**Aux Switch Ratings:** 24 Vac, 2.2A pilot duty, Class 2, SPDT

**Timing:** 120 sec

**Control Signal:** 24 Vac Floating

**Electrical Connections:** Color-coded 40 in. (1 meter) cable

**Voltage:** 24V

**Frequency:** 50 Hz; 60 Hz

Control central heating and/or cooling systems, fan coil systems, radiators and convectors. Depending on the model selected, it can be controlled by either a low voltage SPST or SPDT or floating controller such as a room thermostat, Aquastat control, or flow switch.

- Two-way valves.
- Minimal actuator power consumption.
- Double insulated actuator.
- Quick-connect or one-meter cable electrical connections available.
- Safe for use with potable water.
- Quick and easy replacement of moving parts.
- Actuator head installation does not require draining the system.
- On/Off models with six second nominal timing (floating/modulating models available with 120 second timing).

**Power Supply Rating:** 6 VA, SPDT, or SP3T (tri-state) for proportional control.

**Differential (close-off) Pressure Rating:** 60 psi (4 Bar)

**Static Pressure Rating:** 300 psi (20 Bar)

**Median Temperature Range:** 34°F to 203°F (1°C to 95°C)

**Ambient Temperature Range:** 32°F to 140°F (0°C to 60°C)

**Shipping Temperature Range:** -40°F to +150°F (-40°C to +65°C)

**Materials (Body):** Bronze

### Valve and Actuator Kit

Material Number	Body Pattern	Pipe Size		Pipe Connection	Capacity	Flow Characteristic	Comments
		Inch	DN				
VC6831AA1111/U	Two-way	1/2 in.	DN15	Sweat	3.2 Cv	Linear	Comes with Valve VCZAA3100 and Actuator VC6831ZZ11; Use with max 50% glycol in water solution
VC6831AM1111/U	Two-way	3/4 in.	Dn20	Sweat	4.6 Cv	Linear	Comes with Valve VCZAM3100 and Actuator VC6831ZZ11; Use with max 50% glycol in water solution

### A La Carte Option

#### Actuators

Material Number	Voltage	Frequency	Power Consumption	Stroke Timing	End Switch	Cable Length
VC6834ZZ11/U	24 Vac	50 Hz; 60 Hz	6 VA	120 seconds	2-Position SPDT	60 inches

#### Valves

Material Number	Body Pattern	Pipe Size		Pipe Connection	Capacity	Flow Characteristic	Comments
		Inch	DN				
VCZBB3100/U	Two-way	1/2 in.	DN15	NPT	3.5 Cv	Linear	Use with max 50% glycol in water solution
VCZAA3100/U	Two-way	1/2 in.	DN15	Sweat	3.5 Cv	Linear	Use with max 50% glycol in water solution
VCZAL3100/U	Two-way	3/4 in.	DN20	NPT	4.7 Cv	Linear	Use with max 50% glycol in water solution
VCZAR3100/U	Two-way	1 in.	DN25	NPT	6.6 Cv	Linear	Use with max 50% glycol in water solution
VCZAS3100/U	Two-way	1 in.	DN25	Sweat	6.6 Cv	Linear	Use with max 50% glycol in water solution
VCZBD3100/U	Two-way	1-1/4 in.	DN32	NPT	7 Cv	Linear	Use with max 50% glycol in water solution
VCZBE3100/U	Two-way	1-1/4 in.	DN32	Sweat	7 Cv	Linear	Use with max 50% glycol in water solution