

Residential Heating Valves and Actuators

VC Series Valves



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 or line voltage SPST or SPDT or floating controller such as a room thermostat, Aquastat control, or flow switch.

- Two-way or three-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).

Dimensions, Approximate: 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

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

Hydraulic Controls

Product Number	Controller Compatibility	Capacity		Flow Characteristic	Pipe Size		Pipe Connection	Comments	Body Pattern	
		(Cv)	(Kvs)		inch	DN				
VC6831AA1111/U	PI or PID tri-state control signal for proportional control action, such as supplied by AQ675 Outdoor Temperature Compensator, W964F reset controller, or T6984 floating commercial thermostat.	3.2 Cv	2.7 kvs	Linear	1/2 in.	DN15	Sweat	Use with max. 50% glycol in water solution	Two-way	
VC6831AM1111/U		4.6 Cv	3.9 kvs	Linear	3/4 in.	DN20	Sweat	Use with max. 50% glycol in water solution	Two-way	
VC6831ML6111/U		5.9 Cv	5.1 kvs	Linear	3/4 in.	DN20	Sweat	Use with max. 50% glycol in water solution	Three-way	
VC6831MS6111/U		6.6 Cv	5.7 kvs	Linear	1 in.	DN25	Sweat	Use with max. 50% glycol in water solution	Three-way	
VC6831ZZ11/U		—	—	Linear	—	—	—	Actuator only	Two-way	
VC8715AA1000/U		24V SPST, Series 80	3.5 Cv	3.0 kvs	Linear	1/2 in.	DN15	Sweat	Use with max. 50% glycol in water solution	Two-way
VC8715AM1000/U			5.8 Cv	5.0 kvs	Quick Open	3/4 in.	DN20	Sweat	Use with max. 50% glycol in water solution	Two-way
VC8715AS1000/U			7.0 Cv	6 kvs	Quick Open	1 in.	DN25	Sweat	Use with max. 50% glycol in water solution	Two-way
VC8715ZZ11/U			—	—	Quick Open	—	—	—	Actuator only	Two-way