

# Fail Safe Motorized Zone Valve



## FEATURES

- Zone Valve for chilled and hot water applications.
- Fast operation for use with water source heat pumps.
- Available in Normally Open, Normally Closed and 3-way
- 2-way and 3-way diverting configurations.
- 24VAC hysteresis synchronous motor.
- Available in sizes ½” to 1”.
- NPT female pipe connection.
- Spring operates valve to the normal position when not powered

## SPECIFICATIONS

Series	EXL11x00
Body	Forged Brass
Seals	Nitrile Butadiene Rubber
Cover	Aluminum
Chassis	Stainless Steel
Media	Chilled/Hot Water 25°F – 201°F
Pressure Rating	232PSI
Voltage	24VAC
Power	6.5W
Operation	Motor ~15sec Spring~5sec
Ambient / Storage	<104°F / -68° – 149°F

## PART NUMBER:

EXL11x00-xx-xx-xx-xx

## Zone Valve

### Description:

EXL11x00 Series zone valves are intended for use in systems requiring 2-position (on/off) control of heating or cooling valves. Available in 2-way and 3-way diverting configurations, EXL11x00 Series valves may be installed in both variable and constant flow pumping systems.

Whether wired to a simple low-voltage thermostat or controlled by a DDC system, the EXL11x00 Series provides affordable zone control strategies for both occupancy comfort and energy savings. Long-life, low-noise, and compact design make the EXL11x00 Series an ideal choice for standard zoning applications.

When combined with a variable flow core water pumping system, the EXL11x00 Series may be used as a core water isolation valve; during periods of reduced heating and cooling loads, energy savings will be realized by the reduced electrical demand at the pump VFD.

### Applications:

- Fan coil units.
- Unit heaters and cabinet unit heaters.
- Heat pump core water isolation.
- Variable and constant flow pumping systems.

### Operation:

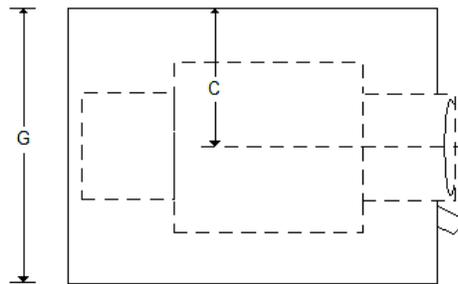
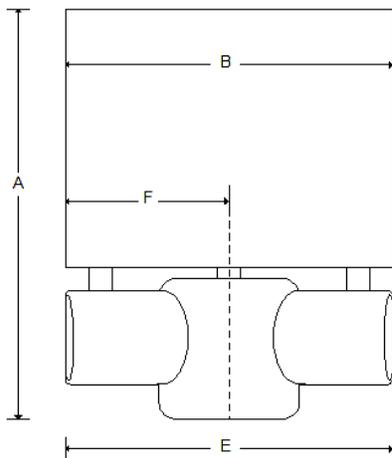
EXL11100 Series- When 24VAC is applied to the valve motor, the normally-closed valve will open and the end switch will make. When power is removed, the valve will spring closed.

EXL11200 Series- When 24VAC is applied to the valve motor, the normally-open valve will close and the end switch will make. When power is removed, the valve will spring open.

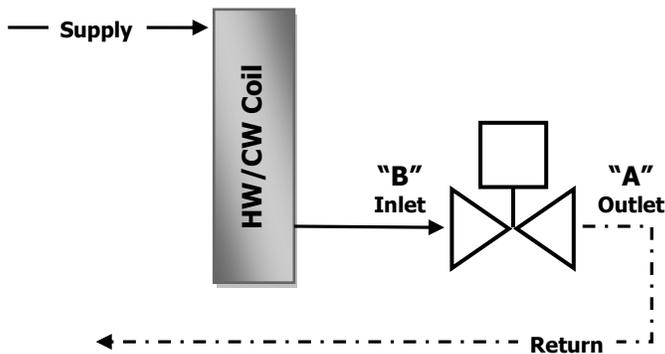
**Valve Models & Specifications:**

Model	Type	Size	Cv	Close-Off Pressure (psi)	Power Supply
EXL11100-02-05-23-29	Normally-Closed 2-Way	1/2"	2.3	29	24VAC +/- 10% 50-60Hz @6.5W
EXL11100-02-05-37-22		1/2"	3.7	22	
EXL11100-02-10-80-15		1"	8	15	
EXL11200-02-05-23-29	Normally-Open 2-Way	1/2"	2.3	29	
EXL11200-02-05-37-22		1/2"	3.7	22	
EXL11200-02-10-80-15		1"	8	15	
EXL11100-03-05-50-15	3-Way Diverting	1/2"	5	15	
EXL11100-03-10-67-15		1"	6.7	15	

Model	Type	Size	Dimensions (inches)					
			A	B	C	D	E	F
EXL11100-02-05-xx-xx	2-Way	1/2"	4.15	3.31	1.40	2.48	3.54	2.20
EXL11100-02-10-xx-xx	2-way	1"	4.31	3.31	1.46	2.48	3.54	1.85
EXL11200-02-05-xx-xx	2-Way	1/2"	4.15	3.31	1.40	2.48	3.54	2.20
EXL11200-02-10-xx-xx	2-way	1"	4.31	3.31	1.46	2.48	3.54	1.85
EXL11100-03-05-xx-xx	3-Way	1/2"	4.57	3.31	1.40	2.48	3.54	2.20
EXL11100-03-10-xx-xx	3-Way	1"	4.92	3.31	1.46	2.48	3.54	1.85

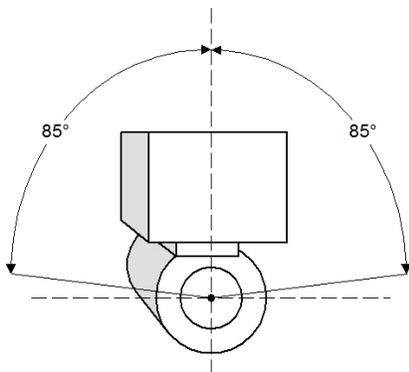


## Wiring & Installation Instructions:



### **2-Way Valve Installation:**

Flow in the normally-closed 2-way valve is from port "B" to port "A". Ports are marked on the bottom of the valve.

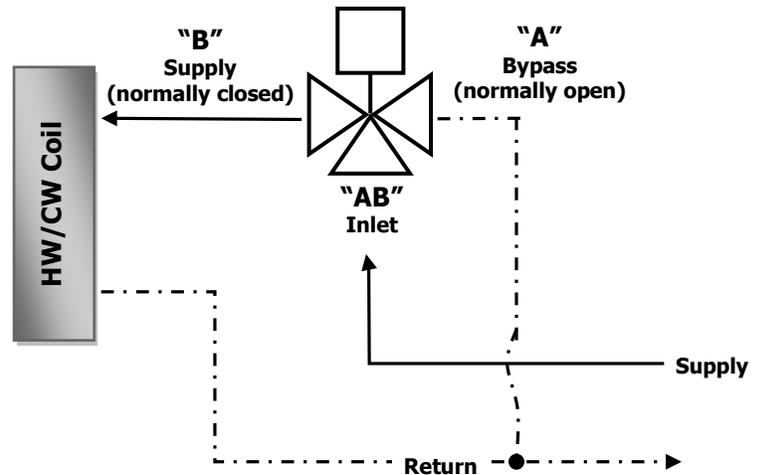


### **Valve Orientation:**

When mounted in horizontal piping the valve installation angle must be less than 85°.

When mounted in vertical piping care must be taken to prevent condensate from infiltrating actuator housing.

Failure to comply with installation angle and/or vertical pipe installation requirements will void the warranty.

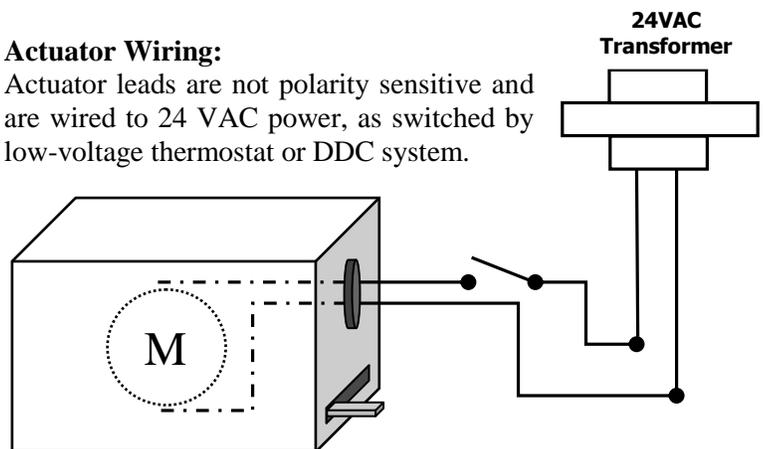


### **3-Way Valve Installation:**

Flow in the 3-way diverting valve is from port "AB" to port "B" for coil supply and "AB" to "A" for coil bypass. "A" and "B" ports are marked on the bottom of the valve; "AB" is not marked.

### **Actuator Wiring:**

Actuator leads are not polarity sensitive and are wired to 24 VAC power, as switched by low-voltage thermostat or DDC system.



### **Manual Lever:**

Valve open/close operation may be overridden by the manual operating lever.