

## Z-one™ Control Valves

The Z-one™ control valves are used to automatically shut-off the flow or redirect hot and chilled water in hydronic systems, open systems, close systems; and are UL listed for plenum installations. The motorized two-position, on/off, spring return Z1 series actuator has an end mounted push button and easily attaches to a Z2 (2-way) or Z3 (3-way) valve body by a push button lock and requires no tools. The valve provides 100% bubble-tight seat close-off leakage. The actuator is fitted with a special mechanism for gradual movement of the valve paddle which provides smooth and quiet constant operation. See product instructions for specific installation instructions.

Key features include a durable synchronous motor which operates at constant speed, an actuator that snaps on for fast and easy installation with in-line push button and a manual level that allows flushing of the system after installation.



### PRODUCT INFORMATION

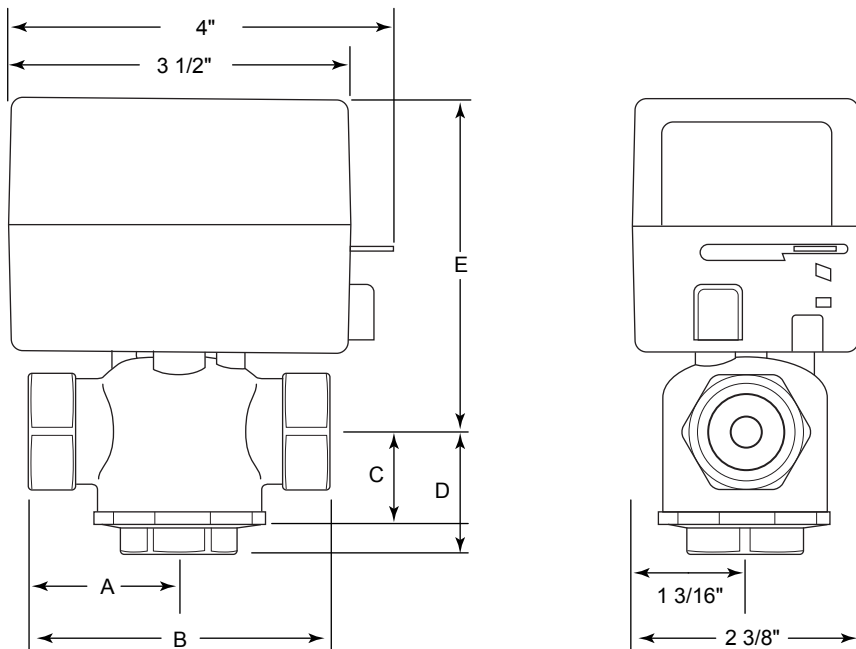
PART	MATERIALS
<b>Valve</b>	
Body	Forged Brass
Stem	Stainless Steel
Paddle	EPDM
O-rings	EPDM
End Conn.	Brass ( 1/2", 3/4" and 1" FNPT)
<b>Actuator</b>	
Base Plate	Aluminum
Cover	Polycarbonate

### SPECIFICATIONS

Application:	Control of Flow
Service Media:	Hot and Chilled Water (Up to 50% Glycol)
Functions:	ON / OFF or A / B ON (3-Way)
Stroke Speed:	Fully opens < 60 seconds, Fully closes in 6 seconds
Pressure Class:	300 PSI (20 Bar)
Temperature:	32 - 240°F (0 to 115°C)
Power Conn.	Wire Lead Length 24V 18"; 120V 6"
Power Required	5.0 W, 7 VA
Motor AC Voltage	24 Vac 50 / 60 Hz Class 2, 120 Vac 50 / 60 HZ

MODEL NUMBER	SIZE	END CONNECTION	TYPE	MOTOR VOLTAGE	MAX GPM	CV	CLOSE-OFF ΔP (PSI)
Z411413	1/2"	FNPT	2-Way, NC	24V	8.7	1.0	75
Z416413	1/2"	FNPT	2-Way, NC	120V	17.7	2.5	50
Z611413	1/2"	FNPT	3-Way, NC	24V	17.7	2.5	50
Z616413	1/2"	FNPT	3-Way, NC	120V	19.2	3.5	30
Z411513	3/4"	FNPT	2-Way, NC	24V	17.7	2.5	50
Z416513	3/4"	FNPT	2-Way, NC	120V	19.2	3.5	30
Z611513	3/4"	FNPT	3-Way, NC	24V	19.2	3.5	30
Z616513	3/4"	FNPT	3-Way, NC	120V	25	5.0	25
Z411617	1"	FNPT	2-Way, NC	24V	25	5.0	25
Z416617	1"	FNPT	2-Way, NC	120V	25	5.0	25
Z611617	1"	FNPT	3-Way, NC	24V	25	5.0	25
Z616617	1"	FNPT	3-Way, NC	120V	25	5.0	25

## Z-one™ Normally Closed Control Valves



### NOMINAL DIMENSIONS & WEIGHTS

CONNECTIONS	DIMENSIONS					WEIGHT LBS
	"A"	"B"	"C" (2-WAY)	"D" (3-WAY)	"E"	
1/2" FNPT	1- 7/16"	2- 7/8"	15/16"	1- 1/4"	3- 1/2"	1.80
3/4" FNPT	1- 9/16"	3- 1/16"	15/16"	1- 1/4"	3- 11/16"	1.80
1" FNPT	1- 13/16"	3- 5/8"	15/16"	1- 11/16"	3- 11/16"	1.80

*Nominal Dimensions & Weights shown above are not to be used for construction purposes unless first certified by the Factory.*

### ORDERING DESIGNATION

**Z616413**

ACCESSORY

Use Model #, (1/2" FNPT 3-Way, NC 24V Shown)

Z-one™ is a trademark of Caleffi Hydronic Solutions