BIWORLD
Professional Heating Solutions

BZV Series Motorised Zone Valve

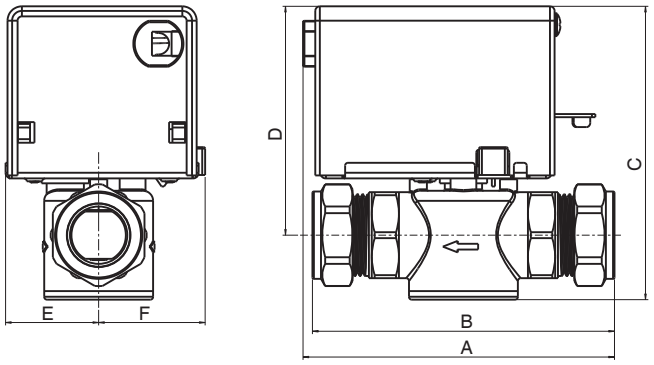
Model: BZV22, BZV28

Application

BZV series motorized valves are used to control flow in chilled or hot water systems.Although specifically designed for small bore central heating systems.

Valve Specifications	
Medium	chilled or hot water
Flow Direction	as per arrow on valve body
Supply Voltage	220-240VAC, 50/60Hz
Size	22mm or 28mm
Type of end fitting	compression fiiting
Materials	
Body	forged brass
Ball	EPDM
Stem	forged brass
Stem packing	EPDM (lubricated)
Compression nut	forged brass
Olive	Brass
Actuator shell	stainless steel
Spring	stainless steel
Medium temperature range	+5 to +88 °C
Max. medium temperature	100 °C
Max. ambient temperature	60 °C
Max. static pressure	10 bar
Max. close-off pressure	1 bar
Cable length	1 metre
Auxiliary switch rating	250VAC 4A
Power consumption	5W

Dimensions



Nominal Size		Dimensions (mm)					
DN [mm	DN [mm]	A	B	C	D	E	F
BZV22	22mm	108.7	105.4	102.4	80	32.5	37.2
BZV28	28mm	110.5	107	110.6	84.1	32.9	36.8

Installation

The valve can be installed vertically or horizontally, but not turned upside down.
Notice: When the valve is mounted on a vertical pipe, care must be taken so that condensation does not drip on the valve.

Manual Open

The manual opening is achieved by moving the manual opening lever to the locked position.When power is applied, the manual lever unlocks automatically.

Removing the Actuator

1.Move the manual open lever to the lock open position.
2.Press the push button in and pull the actuator up.

Installing the Actuator

1.Move the manual open lever to the lock open position.
2.Align valve stem to the mating actuator hole. Move stem if required for proper alignment.
3.Press the push button in and slide the actuator onto the valve body, release the push button.

Plumbing

When connecting to pipe work do not use the actuator for leverage. Valves should be held by wrench flats on body. Place manual opening lever in the lock open position when filling, venting or draining the system.

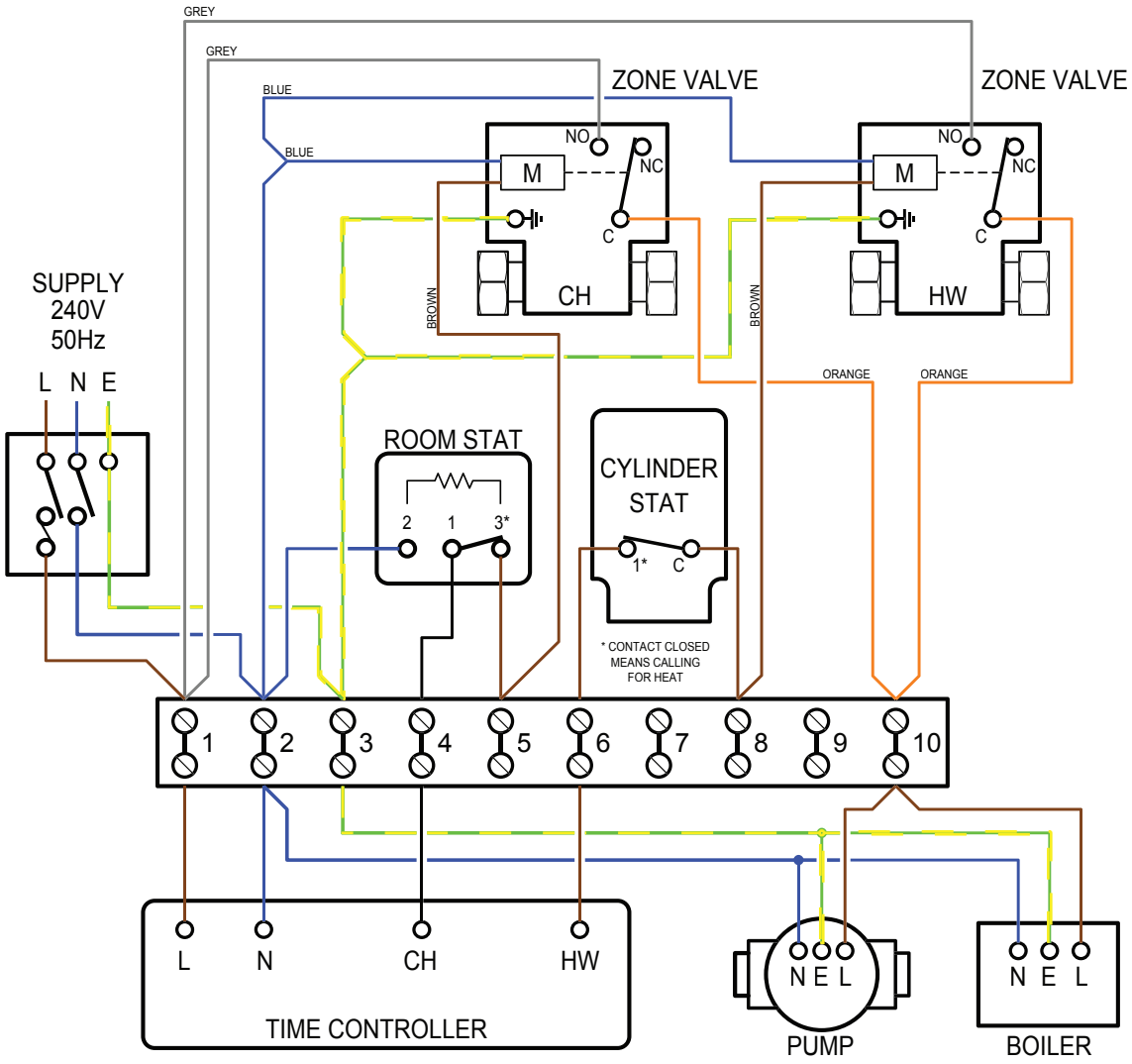
Wiring

All wiring should be carried out to IEE Regulations

Brown	- Live
Orange	- End switch out
Grey	- End switch in
Blue	- Neutral
Green & Yellow	- Earth

Typical Wiring Installations

Follow any specific wiring instructions provided by the boiler manufacturer. If none are supplied, the following diagrams offer typical wiring installations using room thermostat and other related controls.



This product is in conformity with:

Standard:
EN 60730-1:2016,
EN 60730-2-8:2002+A1:2003,
EN 61000-3-2:2014, EN 61000-3-3:2013,
EN 1074-1:2000

related to CE Directive(s):
2014/35/EU (Low Voltage)
2014/30/EU (Electromagnetic Compatibility)

SAFETY INSTRUCTION
This safety alert symbol will be used in this manual to draw attention to safety related instructions. When used, the safety alert symbol means
ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN A SAFETY HAZARD.

CAUTION: All work must be performed by qualified personnel trained in the proper application,installation, and maintenance of systems in accordance with all applicable codes and ordinances.

WARNING: System fluids are under pressure or temperature can be hazardous.Be sure the pressure has been reduced to zero and the system temperature is below 38°C.Failure to follow these instructions could result in property damage and/or personal injury.

WARNING: All controls must be earthed. All valves should have a means of disconnection from the electrical mains supply which incorporates a contact separation of at least 3mm in all poles.

Operator: Save these instructions for future use!