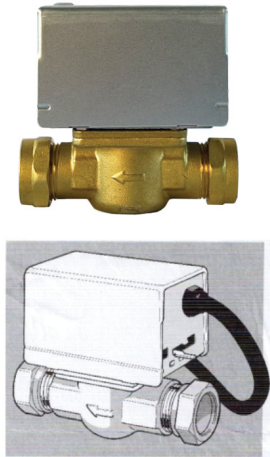


230v 22mm motorized valves

These motorized zone valves have been designed to control the flow of water in iron and copper pipe systems. Although specifically designed for small bore central heating systems, the valve can be used in commercial and industrial applications.

- Power Supply: 230 Volts AC 50Hz
- Switch Rating: 2.2A
- Switch Type Power: SPST (22mm)
- Consumption: 6W
- Ambient Temperature: 50°C max
- Flow Temperature: 5°C to 88°C max
- Static Pressure: 8.6 bar max



Product Code	Product Description
TIOMZV-22-2	2-way 230v 22mm motorized valve
TIOMZV-22-3	3-way 230v 22mm motorized valve

Application

The motorized zone valve has been designed to control the flow of water in iron and copper pipe systems. Although specifically designed for small bore central heating systems, the valve can be used in commercial and industrial applications.

Specification

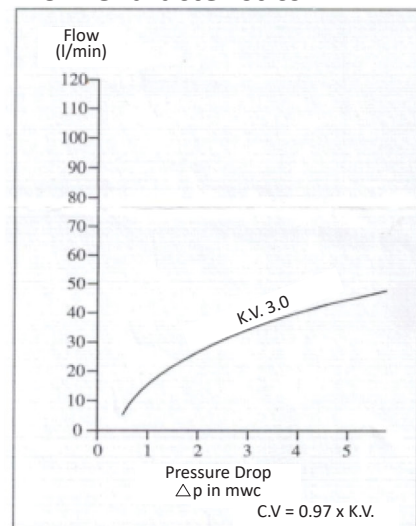
Power Supply	230 Volts AC 50Hz
Switch Rating	2.2A
Switch Type Power	SPST (22mm)
Consumption	6W
Timings (Nominal)	On: 12 seconds under power Off: 6 seconds under spring return
Ambient Temperature	50°C max
Flow Temperature	5-88°C max (Special models available for chilled water applications)
Static Pressure	8.6 bar max
Flow Direction	As per arrow on valve body

NOTE: Continuous operation of the valve motor at the fully open position is not recommended.

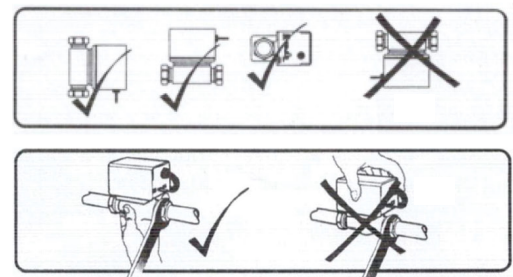
Dimensions (mm)

	A	87	
	B	98	
	C	60	
	D	1/2	94
		22mm	104
		1"	92
	28mm	110	

Flow Characteristics



TAKE CARE NOT TO OVERTIGHTEN.



Installation

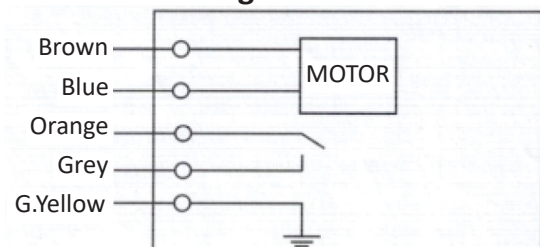
Incorporating a manual lever, the lever should normally be in 'AUTO' position, but can be moved to 'MAN OPEN' position for system drain down and filling purposes only. Before fitting the valve, read through the plumbing and wiring instructions.

Plumbing

The valve may be plumbed in at any angle but must not be mounted so that the valves head is below the horizontal level of the pipework. In the unlikely event of a leak, a safety hazard could result.

Do not grip the valve head while making and tightening up plumbing connections. Attach a spanner (32mm or 1W'AF) onto the valve body at each port, whilst tightening up the nuts. Tighten compression nuts enough to make a watertight seal.

Wiring



230v 22mm motorized valves

These motorized zone valves have been designed to control the flow of water in iron and copper pipe systems. Although specifically designed for small bore central heating systems, the valve can be used in commercial and industrial applications.

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Consumption	6W
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Ambient Temperature	50°C max
Flow Temperature	5-88°C max (Special models available for chilled water applications)
Static Pressure	8.6 bar max
Flow Direction	As per arrow on valve body

NOTE: Continuous operation of the valve motor at the fully open position is not recommended.

Dimensions (mm)

	A	87	
	B	98	
	C	60	
	D	3/4	
		22mm	112
		1"	94
	E	3/4	124
		22mm	133
		1"	124
		28mm	137

Installation

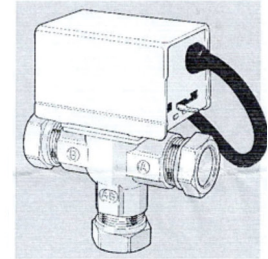
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Plumbing

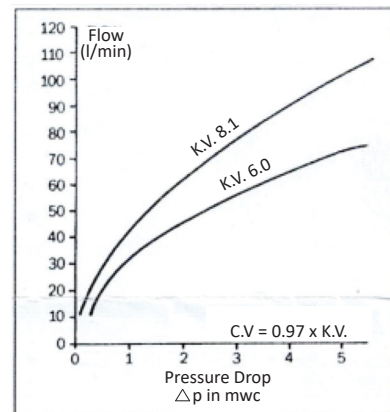
The valve **MUST NOT** be fitted on the return pipework under any circumstances. Flow from the boiler must be connected to port AB, the radiator circuit to port A and the hot water cylinder to port B.

The valve may be plumbed in at any angle but must not be mounted so that the valves head is below the horizontal level of the pipework. In the unlikely event of a leak, a safety hazard could result.

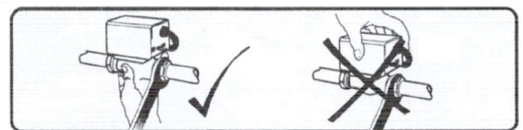
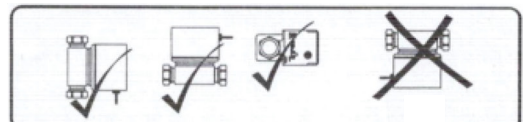
Do not grip the valve head while making and tightening up plumbing connections. Attach a spanner (32mm or 1W/AF) onto the valve body at each port, whilst tightening up the nuts. Tighten compression nuts enough to make a watertight seal.



Flow Characteristics



TAKE CARE NOT TO OVERTIGHTEN.



Description for Wiring

- White = Heating ON
- Blue = Neutral
- Grey = Hot water OFF
- Green/Yellow = Earth
- Orange = Boiler and pump LIVE

Valve Options

The valve operates as follows:

- No power (on valve) = HW only (port B open)
- 240V on white wire = HW + CH (mid position)
- 240V on white & grey wires = CH only (port A open)
- + 240V output on orange wire
- 240V in grey wire = valve hold in last position
- + approx 100V output on orange wire