Energy Saving Innovative Controls Limited

ESZV222LM/PM & ESZV282LM

22mm & 28mm 2 Port Zone Valve User & Installation Instructions

CE Directives:
Electronic Compatibility Directive 2014/30/EU
Low Voltage Directive 2014/35/EU
EC Marking Directive 93/68/EEC

UKCA Directives:
Electromagnetic Compatibility Regulations 2016
Electrical Equipment (Safety) Regulations 2016

To take advantage of our 5 year extended warranty, you must register your product within **30 days** of purchase via www.esicontrols.co.uk
Zone valves which have not been registered within 30 days of purchase will only qualify for 1 year warranty. Interference with sealed parts renders the guarantee void. In the interests of continuous product improvement, we reserve the right to alter designs, specifications and materials without prior notice and cannot accept liability for errors.

2 Port Zone Valve, 22mm & 28mm	
Supply Voltage	220-240VAC, 50/60Hz
Power Consumption	5W
Fluid Temperature Min - Max	+5°C to +88°C
Operating Temperature	5°C to +50°C
Installation Environment	Indoor only, dry and ventilated
Flow Direction	As per arrow on valve body
Auxiliary Switch Rating	250VAC 3A
Response Opening	16 seconds
Response Closing	7 seconds
Max. Static Pressure	8 bar
Max. Close-off Pressure	1 bar

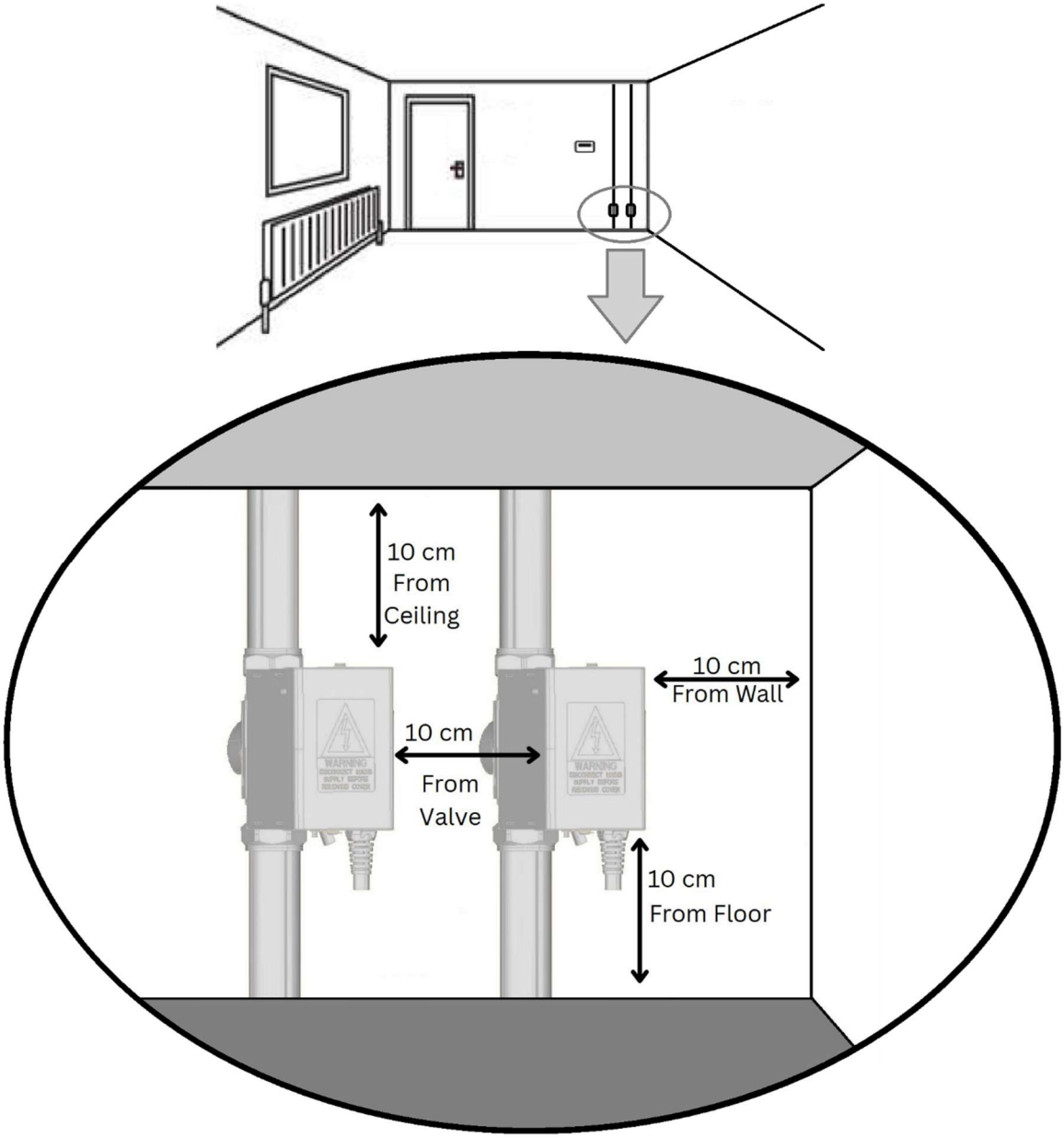
Warning
Always isolate the AC mains supply before removing or refitting the actuator assembly. This product must be installed by a competent person and installation must comply with the guidance provided in the current edition of BS7671 (IEE Wiring Regulations) and part 'P' of the building regulations.

Installation

All ESi zone valves feature a quick release system for ease of removing the actuator head. Our 2 port actuator head can also be used as a replacement for the market leader.

To prevent damage to your actuator head, before commencing any soldering or other work to install the brass body, you must ensure you remove the actuator head from its brass body.

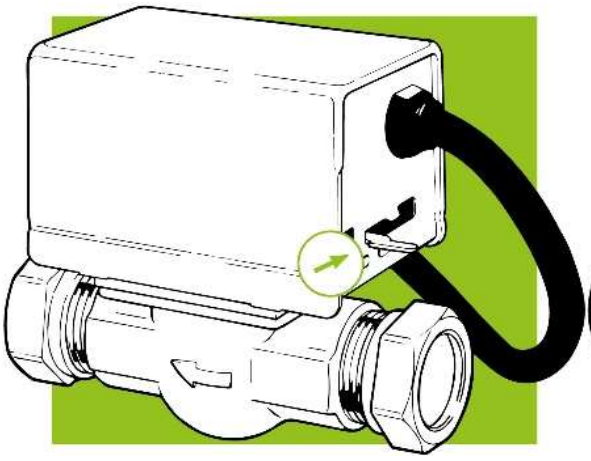
The valves must be installed in an area with adequate ventilation.



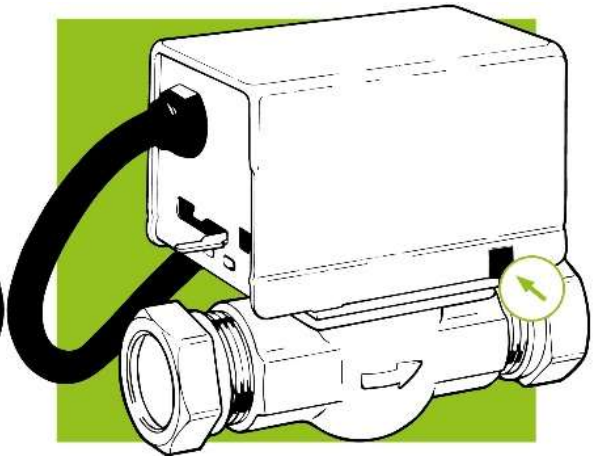
Attach the valve body to the pipework. When installing horizontally, the actuator head must be above the level of the pipework and **never use the actuator for leverage**.

Ensure you leave a minimum of 10cm clearance in all directions around each actuator.

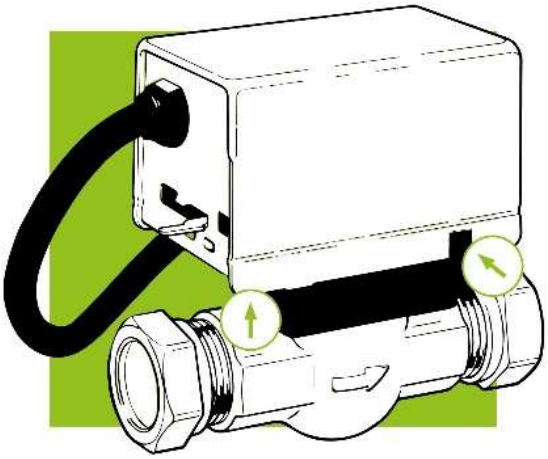
Removing The Actuator Head From Its Brass Body



Lock the manual leaver in the manual position.



Press & hold the release button on the side of the actuator.



Firmly pull the actuator head away from the valve body. Failure to hold the release button can cause the retaining clip holding the valve body to the actuator to snap.

To re-attach your actuator head to its brass body, ensure the manual lever is in the manual position and follow the above steps in the reverse order. When the actuator head & valve body are successfully coupled, the actuator head will click into place.
Release the manual lever, this should automatically move to the AUTO position, this is the normal resting position. The manual lever should be left in the AUTO position but can be moved to the manual position for system drain down and filling purposes only.

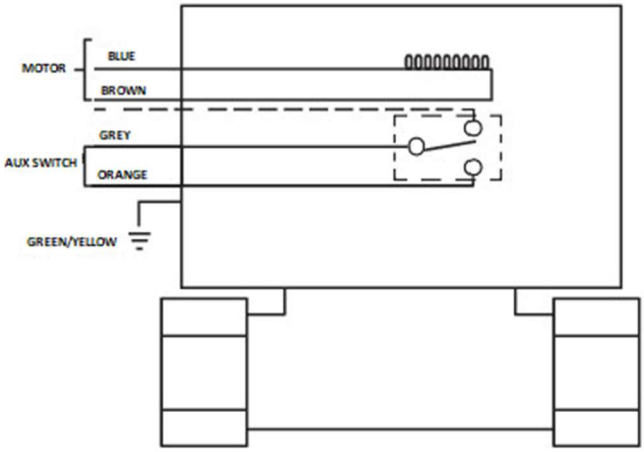
System Flushing

Once the valve is fitted, lock the manual lever in the manual position. The complete system should now be flushed out and drained to remove any foreign material in the water. The system can then be filled with water and corrosion inhibitor added if required.

Wiring

All wiring must comply with current I.E.E. regulations. Ensure mains supply to all controls is fused at no more than 3A.
Mains isolation switch must have a contact separation of at least 3mm.
All ESi zone valves have industry standard coloured wiring. For more information on wiring to S Plan systems, please use the QR code below:

Scan for more wiring diagram examples



WARNING!
Do not cover valve with thermal insulation. Do not interrupt earth continuity of piping. Valves must be earthed and should be disconnected from the mains before changing actuator heads.

Commissioning

Once the system has been flushed, refilled & vented, carry out the following to ensure correct operation of the valve:

1. Ensure the manual lever is in the AUTO position.
2. Check the programmer/thermostat is calling for heat.
3. Check the boiler is switched on and is set to “radiator symbol” + “tap symbol” for both CH (Central Heating) and DHW (Domestic Hot Water).
4. The boiler should fire, the pump should run, and the valve should move to the fully open position.