SIEMENS

Building Technologies

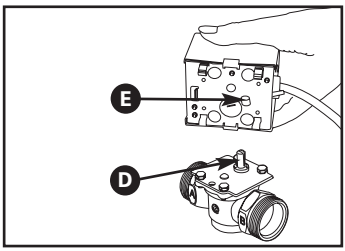
Demountable 2 and 3 port Motorised Valves

Applications
The **CZV2..** 2 port zone valve is available in 22mm and 28mm pipe sizes. It is suitable for zone control of central heating and hot water primary circuits.

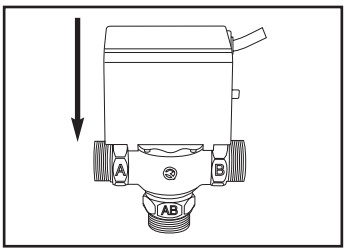
The **CMV3..** 3 port mid-position valve is also available in 22mm and 28mm pipe sizes and is suitable for fully pumped central heating/hot water systems and ideally suited to smaller systems that do not warrant the use of two zone valves.

Replacing demountable actuator

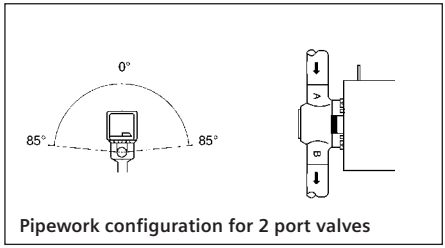
Removing actuator
First isolate from electrical mains supply, disconnect cable from junction box taking note of position and colour of wires and replace with new actuator cable (it may be advisable to replace wire for wire to ensure accuracy) pull actuator from brass body.



Attaching valve actuator
Engage drive shaft D with actuator E and push down firmly until spring clips engage fully with valve body. When all work has been carried out reconnect electrical supply.



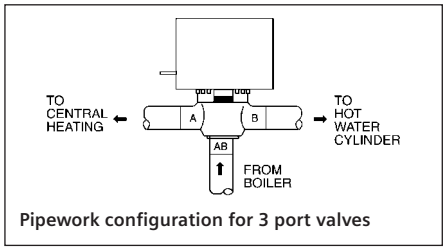
Installation
Valves may be installed vertically or horizontally within the limits shown below.



Pipework configuration for 2 port valves

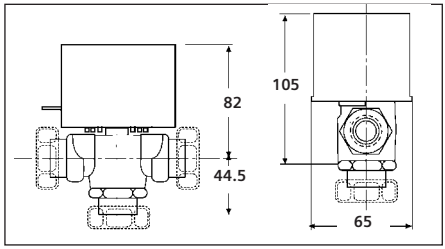
When making the pipe connections to the valve, do not use the actuator for leverage. Valve should be held by wrench flats on valve body. Care should be taken to ensure the valve is installed the correct way round.

Note
Surrounding pipework should be fixed in accordance with best practice guidelines and sufficient room should be allowed for easy replacement of actuator.



Pipework configuration for 3 port valves

Dimensions



Note: When draining/venting your system put the Manual lever in the 'MAN' position.
Valves will then take up the following positions:

CZV222	opens, but auxiliary switch remains de-energised
CMV3..	goes to mid-position

For information only:-
Flex enters actuator on port B side.

Wiring and Operation

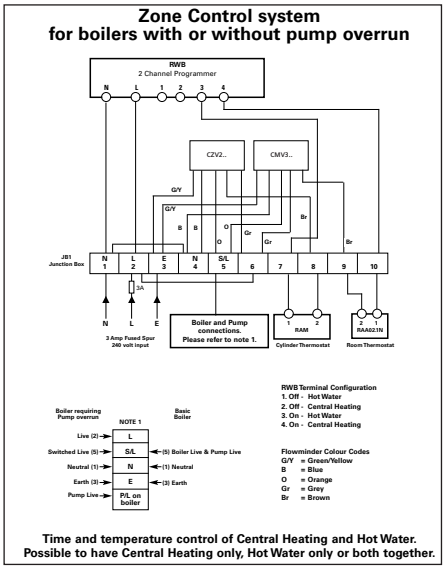
Warning!
Valves must be Earthed and should be disconnected from mains before changing motor heads, for wiring diagrams see below.

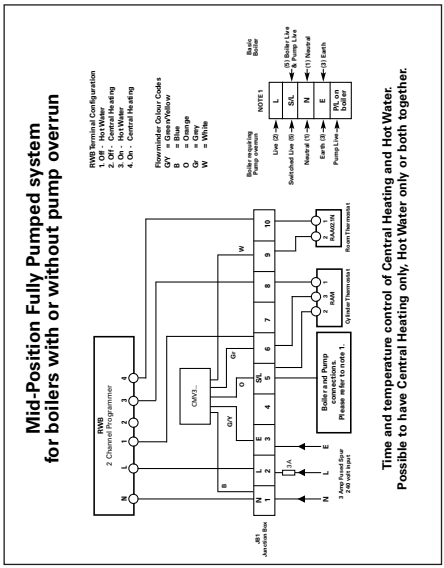
Important!
Mains must be disconnected before changing actuator, valve or synchron motor. Actuator part numbers = CMV valves - DVA3, CZV 22mm valve DVA2/5, CZV 28mm valve DVA2/6. NB: If using 28mm 2 port valve as ON/OFF zone control, white wire must be isolated and made safe.

Fully pumped Zone Control System CZV2..
Zone valve must be installed so the arrow on the valve body points in the direction of water flow, i.e. port **A** is the input and port **B** the output. Port **A** is normally closed when motor is de-energised. When Brown wire is live, valve opens and the auxiliary switch closes. When the auxiliary switch is closed there is a circuit between Grey and Orange wires.

Fully pumped Mid position Control System CMV3..
Mid-position valve has ports marked **AB**, **A** and **B**. Port **AB** must be connected to the boiler flow. Port **A** must be connected to the radiator circuit and port **B** to the hot water cylinder circuit. When the motor is de-energised, water will flow from port **AB** to **B**. When the White wire only is live, water flows from port **AB** out of both ports **A** and **B**. With both White and Grey wires energised water flows from port **AB** to **A** and the Orange wire will fire the pump and boiler.

Wiring Diagrams





Specification
Voltage: 230V, 50Hz, 6w
Maximum water temperature: 88°C
Maximum ambient temperature: 50°C
Maximum static pressure: 8.6 Bar
Maximum differential pressure:
22mm 0.7 Bar
28mm 0.6 Bar
Auxiliary switch rated: 3A-240V
Lead length supplied: 1m

Wiring
Must comply with current I.E.E. regulations. Ensure mains supply to all controls is fused at no more than 3A. Mains isolating switch must have a contact separation of at least 3mm.

For further assistance please contact the Siemens Help Desk Telephone:
0870 850 0184