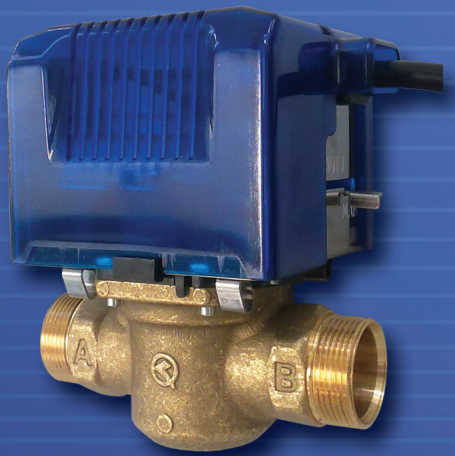
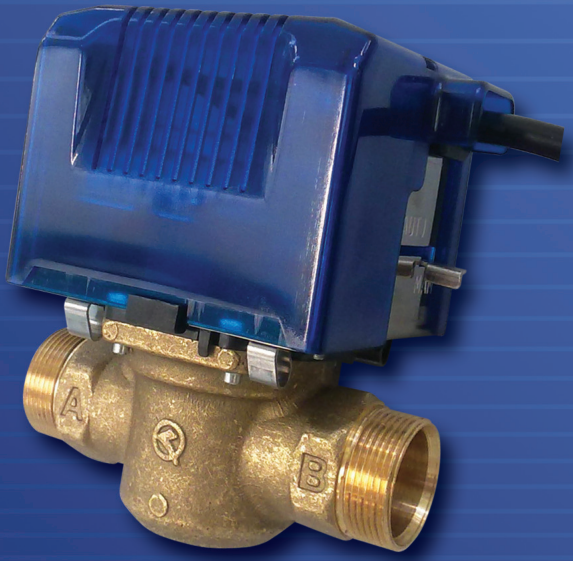
# 2 PORT MOTORISED VALVE (22 mm)

**Model No SBMV22**




## Instruction Manual


A
B

## PRODUCT COMPLIANCE

This product complies with the essential requirements of the following EC Directives:

- Electro-Magnetic Compatibility Directive 2004/108/EC
- Low Voltage Directive 2006/95/EEC
- EC Marking Directive 93/68/EEC

## SAFETY INFORMATION

These instructions are applicable to the Salus Controls model stated on the front cover of this manual only, and must not be used with any other make or model.

These instructions are intended to apply in the United Kingdom only, and should be followed along with any other statutory obligations.

This accessory must be fitted by a Competent person, and installation must comply with the guidance provided in the current editions of BS7671 (IEE Wiring Regulations) and Part 'P' of the Building Regulations. Failure to comply with the requirements of these publications could lead to prosecution.

**Always isolate the AC Mains supply before removing or refitting the actuator assembly.**

*Please leave these instructions with the end user where they should be kept in a safe place for future reference.*

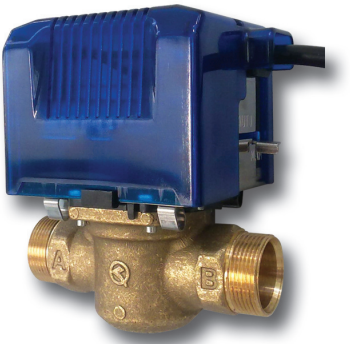
## INTRODUCTION

A motorised valve is used to control the flow of water in a central heating system. The motorised valve can be used for control of both heating and hot water, and it works by controlling the flow of water from the heating boiler to other parts of the system.

There are two types of motorised valve used in domestic heating systems: two port (also called zone valves), and three port (also called mid position valves). Salus Controls offers both types of valve in a range of standard port sizes.

## FEATURES

- Two port option in 22mm and 28mm sizes
- Removable actuator assembly
- Manual lever and position indicator
- Spring return
- Industry standard wiring



## INSTALLATION

Please read the important safety information at the start of this manual before you begin to install the device.

### Before Installation

This valve must only be installed in compatible systems. Before installing, please check that:

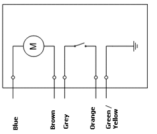
- The system pipework has been flushed out to remove any residue.
- There is enough clearance around the valve to allow removal and refitting of the actuator.
- The valve is not installed with the actuator facing down.
- The supply voltage is the same as the voltage indicated on the actuator cover.
- The mains water pressure and the pressure differentials between valve ports are suitable for this valve (see Product Specification).

Do not restore the mains supply to the system until all associated items are fully installed.

**NOTE:** All electrical installation work should be carried out by a suitably qualified Electrician or other competent person. If you are not sure how to install this motorised valve consult either with a qualified electrician, heating engineer or your boiler / heating system supplier for advice on how to continue.

**Electrical Connection**

The electrical connections to the motorised valve are made using the pre-wired cable. This simplifies installation, as no connections need to be made to the actuator itself. The connecting cable uses industry standard colours, and the connection details are shown below:

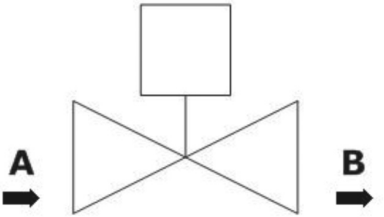
| Wire Colour | Description | Electrical Connections |
|---|---|---|
| Blue | Mains Neutral |  |
| Brown | Switched Live from Room or Cylinder Thermostat | |
| Grey | Live | |
| Orange | Normally Open (NO) | |
| Green / Yellow | Earth | |

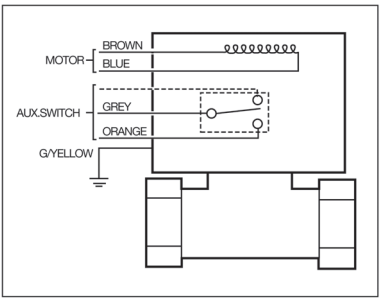
## OPERATION

### Two way valves

A two way motorised valve has port A normally closed with no power to the valve. When the electrical supply is activated, the actuator motor overcomes the force of the internal spring and opens the valve fully. This allows water to flow from port A to port B.

The valve is kept in the open position until the electrical supply is interrupted. When the electrical supply is interrupted the internal spring drives the valve back and closes port A.



## MANUAL LEVER


There is a lever on the side of the actuator cover: this lever allows manual operation of the valve, e.g. for refilling and draining of the system or if the actuator fails. For two way valves, the lever allows the valve to be kept open; with three way valves the lever allows both ports A and B to be open at the same time.

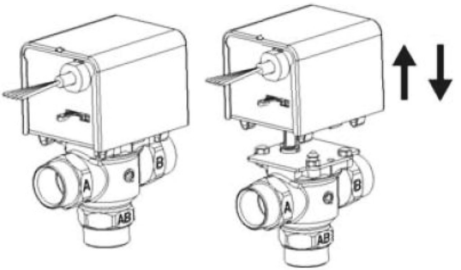
To manually operate the valve, gently push the lever forward and latch it in the MAN position. The valve will automatically return to AUTO when the actuator is powered up again.

NOTE: Push the manual lever slowly to prevent damage to the actuator motor and gear system. The valve should be in manual position to be fitted.

## ACTUATOR REMOVAL AND REFITTING

The valve actuator can be removed or refitted without having to disturb the valve installation. The actuator is designed to clip onto the valve body, making removal and refitting very easy.

**Note: Do not attempt to dismantle the actuator assembly as it contains no user serviceable parts – dismantling or tampering with the actuator assembly will invalidate the product warranty.**



## MAINTENANCE

The Motorised Valve requires no special maintenance. Periodically, the outer casing can be wiped clean using a dry cloth (please DO NOT use solvents, polishes, detergents or abrasive cleaners, as these can damage the thermostat).

There are no user serviceable parts within the unit; any servicing or repairs should only be carried out by Salus Controls or their appointed agents.

Should the Motorised Valve fail to function correctly, check:

- The heating system is switched on.
- The lever is not latched in the MANUAL position.

## WARRANTY

Salus Controls warrants that this product will be free from any defect in materials or workmanship, and shall perform in accordance with its specification, for a period of three years from the date of purchase. Salus Controls sole liability for breach of this warranty will be (at its option) to repair or replace the defective product.

## PRODUCT SPECIFICATION

| | |
|---|---|
| Model: | SBMV22 |
| Type: | Motorised valve designed for domestic heating applications. |

**Electrical**

| | |
|---|---|
| Switching Voltage: | 230V AC / 50Hz |
| Power Consumption: | 6W |

**Response**

| | |
|---|---|
| Opening: | 12 seconds |
| Closing: | 5 seconds |

**Differential Pressure**

| **Pipe size** | **2 Way** |
|---|---|
| 22mm | 0.7 bar |
| 28mm | 0.7 bar |

Max Static Pressure: 15 bar

### Operating Temperatures

| | |
|---|---|
| Min Fluid Temperature: | 5 °C |
| Max Fluid Temperature: | 88 °C |

### Environment

| | |
|---|---|
| Operating Temperature: | 0 °C to + 50 °C |
| Storage Temperature: | - 20 °C to + 60 °C |

# SBMV22 Warranty

Salus Controls warrants that this product will be free from any defect in materials or workmanship, and shall perform in accordance with its specification, for a period of two years from the date of installation. Salus Controls sole liability for breach of this warranty will be (at its option) to repair or replace the defective product.

Customer Name: .....

Customer Address: .....

.....

Post Code: ..... Tel No: .....

Email: .....

Engineers Company: .....

Tel No: .....

Email: .....

Intallation Date: .....

Engineers Name: .....

Engineers Signature: .....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