

# **MYSON POWER EXTRA**

## **SPRING RETURN MID-POSITION**

### **MPE 322 /328 & MPE3 3/4" / MPE3 1"**

### **3 PORT 22mm VALVE**

*Thank you for choosing a MYSON heating control.*

The MPE 322/328 is designed to control water circulation in primary hot water and central heating circuits, by diverting flow to either circuit or to both simultaneously using a single valve.

For convenience the two neon indicator lights illuminate indicating which port is open.

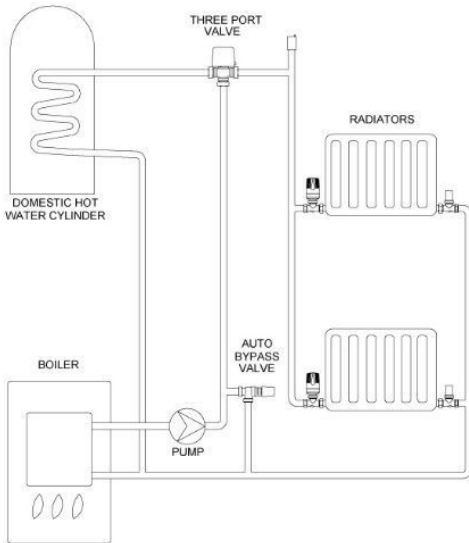
When the manual lever is moved to the right, ports A and B are open, this is used when filling, venting or draining the system. The spring return, Mid-Position actuator – valve rests in the hot water only position.

## **TECHNICAL SPECIFICATION**

Motor Supply Voltage	230 V AC
Frequency	50 Hz
Power Consumption	6 W
Motor Insulation Rating	Class 'F'
Maximum Working Pressure	10 Bar
Maximum Water Temperature	95° C
Maximum Ambient Temperature	52° C
KV value	6.6
Switch Rating	3(0.5) A
High Temperature Silicon Cable	1100mm
Valve Body	Brass with spring loaded Mica filled PTFE shoes
Actuator	Power to Open Spring to Close

# INSTALLATION INSTRUCTIONS

## Step 1. Select Valve Position:



Choose a suitable position for the valve in the circuit to be controlled, which allows sufficient access for wiring and maintenance.

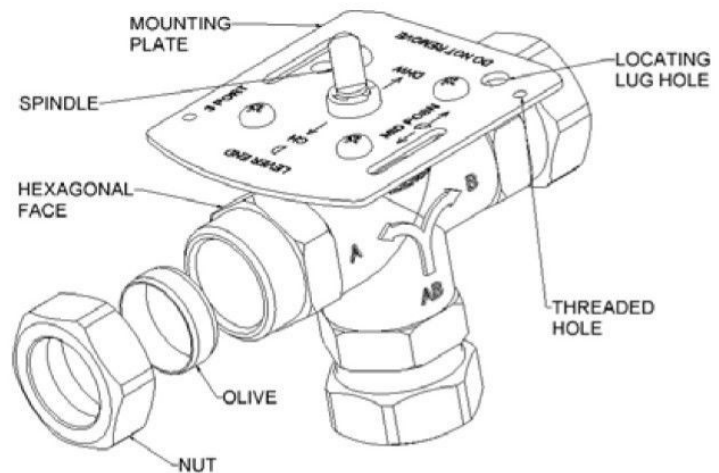
The position chosen must not isolate the boiler from the open vent or the cold feed pipe work.

The valve may be fitted in a horizontal, vertical or inclined orientation. The valve **must not** be fitted on the return circuit.

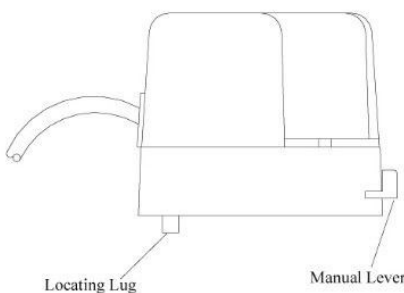
The actuator **must not** be fitted below the valve body.

## Step 2. Fit Valve Body to Pipe work:

Fit the valve body using the 22mm compression nuts provided. Ensure that the valve body is only gripped on the hexagonal faces at the valve ports. Take care not to over tighten. Port A should be connected to CH and Port B connected to DHW.



## Step 3. Fit Actuator to Valve Body:



Position the actuator on the valve body by locating the spindle in the cam slot.

Rotate actuator until the locating lug (shown) lines up with locating lug-hole on the mounting plate (shown).

Fix the actuator to the body by *lightly* tightening the screws provided.

Set the override lever to MID. Fill, test and thoroughly flush the system.

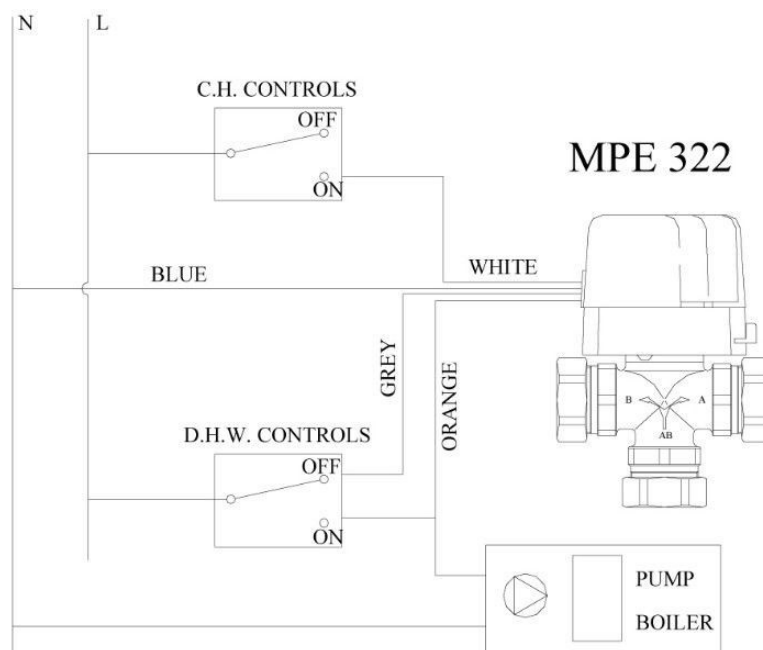
## Step 4. Electrical Connections:

The actuator is fitted with 1100mm of 4-core cable for connection of the system equipment. The installation will be simplified by the use of an electrical junction box into which all the system equipment can connect.

The actual wiring connections will depend on the system equipment used, following the wiring principle outlined below. The MPE 322 is double insulated and requires no earth connection.

**IMPORTANT:** The 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 contact separation of at least 3mm.

System Controls To Be FUSED 3A MAX



## Step 5. Commissioning:

When the installation is complete, filled and vented, check that the valve operates correctly.

Switch on the Hot Water Controls, i.e. programmer and cylinder thermostat: the valve should remain at Port B with the DHW neon lighting.

Switch on the Heating controls, i.e. programmer and room thermostat: the valve should move to the MID position i.e. both outlet ports open and both neons lighting.

Switch off the Hot Water controls, the valve should move to open Port A only with the CH neon lighting.

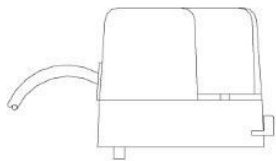
### Notes:

- Ensure that the actuator is not covered with thermal insulation, or in contact with pipe work or other materials.
- When the valve is fitted in confined space, ample ventilation must be provided to ensure that the valve is kept within the specified ambient temperature range.
- The valve actuator is not designed for continuously powered operation.

MPE 322 Spares

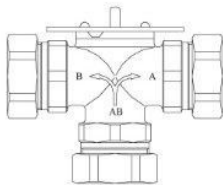
Description

Part No.



Actuator with  
Fixing screws

421001

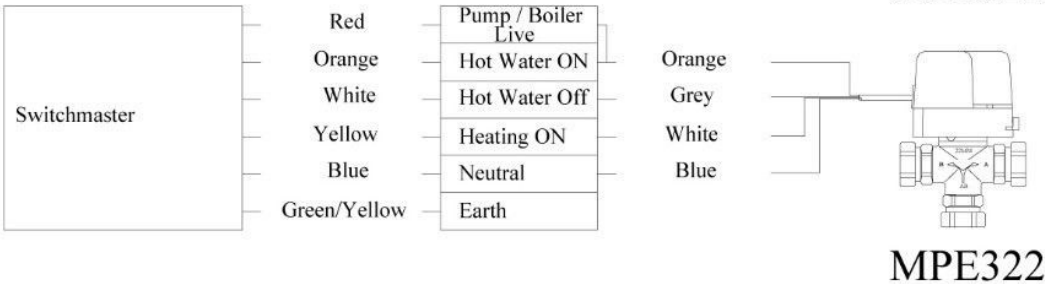
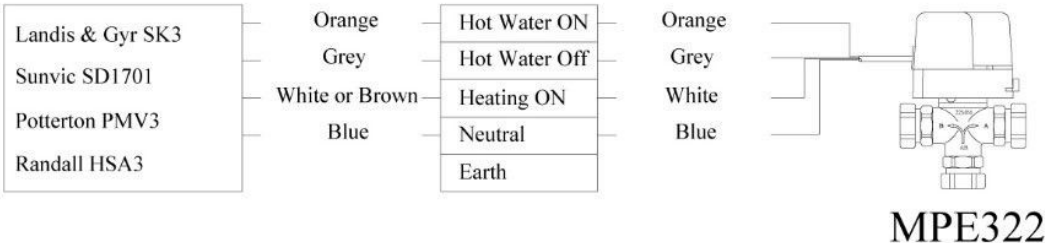
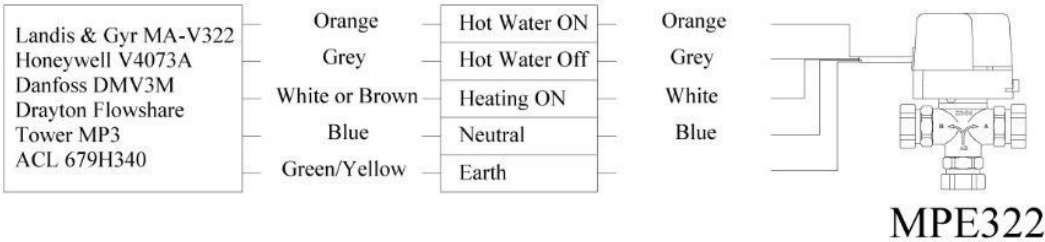


22mm 3 Port  
Mid-Position  
Valve body.

421002

PRODUCT INTERCHANGE WIRING GUIDE

3-PORT MID-POSITION



MYSON CONTROLS, MYSON LTD., EASTERN AVENUE, TEAM VALLEY,  
GATESHEAD, TYNE & WEAR, NE11 0PG  
SALES OFFICE No.: 0845-402-3434