



V4023PH22 V4023PH28 Motorised Zone Valve

INSTALLATION INSTRUCTIONS

APPLICATION

The V4023PH valves have been designed to control the flow of water in iron and copper pipe systems. Specifically designed for small bore domestic central heating systems.

SPECIFICATIONS

Voltage: 230-240V ~ 50 Hz **Power Consumption:** 6W

Lead Supplied: 1 meter,

V4023PH22: 5 core

V4023PH28: 6 core

Operating Temperature Range: +5 to +88° C

Maximum Ambient Temperature: +52° C

Pipe Fitting Size: 22 mm, 28 mm

Dimensions and KV values: See diagrams

SPARES AVAILABLE

Powerhead Part No. 40003916-001/U

Motor package for V4023PH22/U Part No. 40002737-003/U

Motor package for V4023PH28/U Part No. 40002737-004/U

Ball & O-Ring Kit Part No. 272742A/U

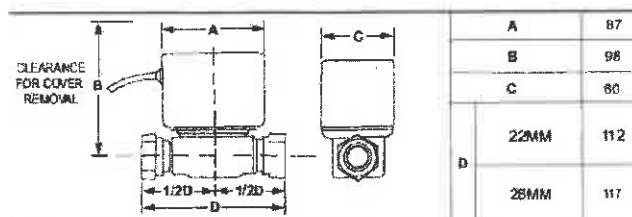


Fig. 1. Dimensions

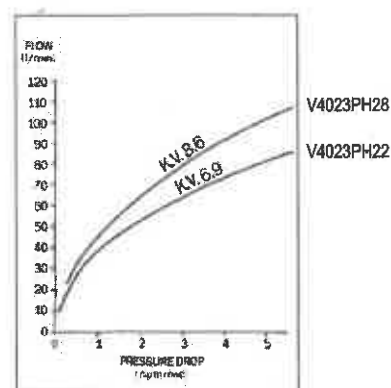
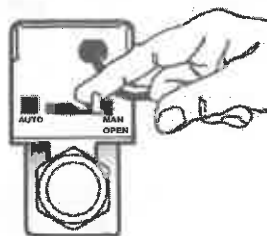


Fig. 2. Flow Characteristics

INSTALLATION

V4023PH incorporates 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.

This product **MUST** be installed by a competent person. The installation **MUST** conform to I.E.T. Regulations and with The Electricity at Work Regulations.

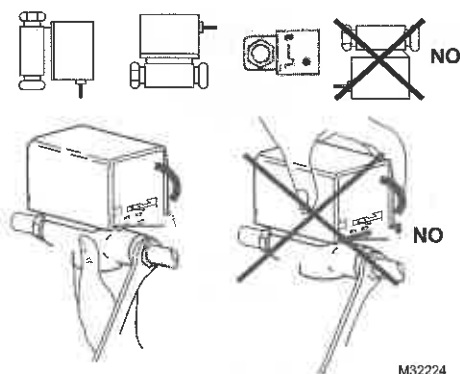
A Class 'A' switch (having contact separation of at least 3 mm in all poles) must be incorporated in the fixed wiring as a means of disconnecting the supply. The system must be appropriately fused.

PLUMBING

The valve may be plumbed in at any angle, but must not be mounted so that the valve 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 (32 mm or 1 1/4" AF) onto the valve body at each port, whilst tightening up the nuts. Tighten compression nuts enough to make a watertight seal.

TAKE CARE NOT TO OVERTIGHTEN.



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WIRING

The wiring diagram below shows relevant connections of the V4023PH22/U to a Honeywell Home junction box (Part No. 42002116-002). Ensure that each numbered, lettered or coloured wire is connected to the correct terminal in the junction box. Make sure all connections are good and all terminal screws are firmly tightened.

NOTE:

Wiring diagram shows connection for 2-zone heating system with two T3 or T4 programmable thermostats

2-zone Heating System

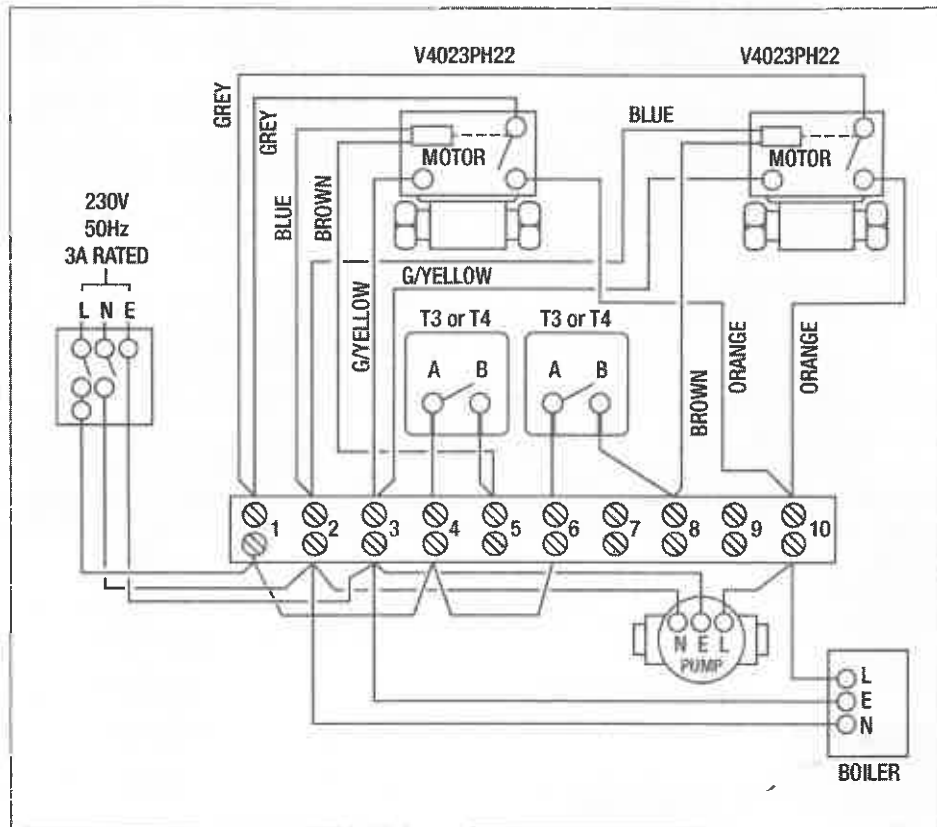


Fig. 3. Wiring Diagram

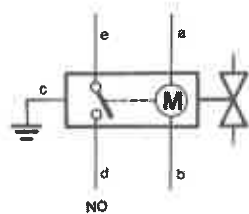


Fig. 4 Wiring diagram V4023PH22

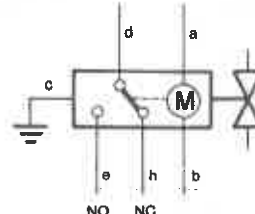


Fig. 5 Wiring diagram V4023PH28

a	brown	b	blue	c	green/yellow	d	orange	e	grey	h	white *
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* if the NC position is not used, assure safe terminating of the white wire (h)

CHECKOUT PROCEDURE

To ensure the valve is plumbed and wired correctly, carry out the following checks after filling the system and switching on the power:

1. Prepare for test
 - a. Check the manual levers are in 'AUTO' position.
 - b. Check the programmable thermostats are powered and are in MAN position
 - c. Check boiler is switched on and its thermostat set to maximum.
2. Confirm correct Zone 1 operation as follows
 - a. Set Zone 2 thermostat temperature to minimum
 - b. Set Zone 1 thermostat temperature to the maximum
 - c. Pump should run and boiler should fire. Feel Zone 1 feed pipe approximately 12" from valve port B, it should get hot.
3. Confirm correct Zone 2 operation as follows:
 - a. Set Zone 1 thermostat temperature to minimum
 - b. Set Zone 2 thermostat temperature to the maximum
 - c. Pump should run and boiler should fire. Feel Zone 2 feed pipe approximately 12" from valve port B, it should get hot.

COMPLETION

Return both thermostats to 'Auto' or mode selected by householder. Full installation, wiring and operating instructions for other SUNDIAL products are included in every product pack. For special wiring diagrams or applications, contact Resideo.

ENSURE THAT THE VALVE HEADS HAVE FREE AIR MOVEMENT AROUND THEM.

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The wiring diagrams and installation instructions in this publication are provided for guidance purposes when installing recognised standard systems only. Any application of this product not shown here, or any deviation from these instructions, is neither recommended nor advised. Any such application or deviation should be referred to Resideo for technical assistance.

For other relevant plans please scan the QR code to access the Honeywell Home wiring guide app. Resideo Academy supports heating and plumbing professionals with training from our industry and product experts. Scan the QR code to access the Resideo Academy online or download our app.

Wiring Guide



Wiring Guide



Resideo Academy online



WEEE Directive 2012/19/EU

The product (and contained batteries) should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers. The correct disposal of end-of-life equipment will help prevent potential negative consequences for the environment and human health.

For more information
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