Honeywell Home

# V4044 & V8044 Two-Position Diverting Valves

**INSTALLATION INSTRUCTIONS**

## APPLICATION

These motorised valves provide two-position diverting control of supply water flow in domestic small bore central heating and hot water systems, especially those systems having a 'pumped primary', where the primary domestic hot water circuit is designed to be accelerated. The valve is normally controlled by the room thermostat. However, in systems using fan convectors or thermostatic radiator valves, instead of a room thermostat for space temperature control, the diverting valve may be controlled by the hot water cylinder thermostat.

NOTE: This valve must not be used for chilled water applications.

## AUTO/MANUAL LEVER

This lever must be in the 'AUTO' position before electric power is switched on.

The 'MANUAL' position may only be used for filling, venting and draining the system, or when there is a power failure to the valve.

In the 'MANUAL' position, the valve plug is centralized and allows flow through both outlets A and B simultaneously.

***IMPORTANT***

*The lever must always be returned to the 'AUTO' position before power is resumed.*

## SPECIFICATIONS

**Electrical Ratings:**

| | | | | |
|---|---|---|---|---|
| V4044C | 240 VAC | 50 Hz | 35 mA | 6 watts |
| V8044F | 24 VAC | 50 Hz | 350 mA | 6 watts |

**Electrical Connections:** 24 in. flying lead, 3-core 14/.0076

**Water Connections:**
Each port is screwed 3/4 in. BSPPL.
Inlet (bottom) port is marked AB.
Outlet port A is open when the valve is energised.
Outlet port B is open when the valve is de-energised.

**Timing:**
Valve opens to port A in 24 secs. (Under power).
Valve closes to port A in 12 secs. (Under spring return).

**Maximum Differential Operating Pressure for Close-off:** 3 lb/in$^2$.

**Static Pressure Rating:** 125 lb/in$^2$.

**Fluid Temperature Rating:** 40° - 240° F. (Do not use for chilled water applications.)

## INSTALLATION

**LOCATION**
The valve must be installed so that the flow water enters through inlet port AB, and is diverted through outlet ports A and B.

In 'pumped primary' applications, connect port A to the central heating circuit and connect port B to the indirect cylinder circuit.

***IMPORTANT***

1. *Make certain that the cold water feed and vents are on the same side of any major pressure drop (such as the valve, or a low water content boiler).*
2. *Make certain that the vent pipe cannot be closed off by the valve, whether energised of de-energised.*
3. *Make certain that there is no risk of a cross feed between the central heating and domestic hot water circuits.*

**FITTING THE VALVE**
When making the water connections, never turn or hold the valve by its motor. Always use the brass body. Do not apply excessive force.

Unless using compression fittings when making joints, use PTFE tape. If only jointing compound is available, use sparingly, because compound must not be allowed to enter the valve chamber.

***IMPORTANT***

*After fitting the valve, but before making any electrical connections, make certain that the AUTO/MANUAL lever is in the 'AUTO' position.*

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# WIRING

Connect the flying lead to the electrical circuit.

**Line:** Brown
**Neutral:** Blue
**Earth:** Green/Yellow

All wiring must comply with local Regulations.

# CHECKOUT

1. Before switching on the electrical supply, make certain that the AUTO/MANUAL lever is in the 'AUTO' position.
2. Switch on electrical supply and actuate controls to which the valve is connected, first so that the valve is energised, then so that it is de-energised. By removing the valve cover and watching the mechanism, check that the valve is functioning correctly.
3. If the valve does not function, check for mains supply at the supply junction box.

***IMPORTANT***

*Do not remove the plastic scruit connectors under motor cover for this purpose.*

NOTE: These hydronic valves are not suitable for use in open loop systems where there is air exposure.

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