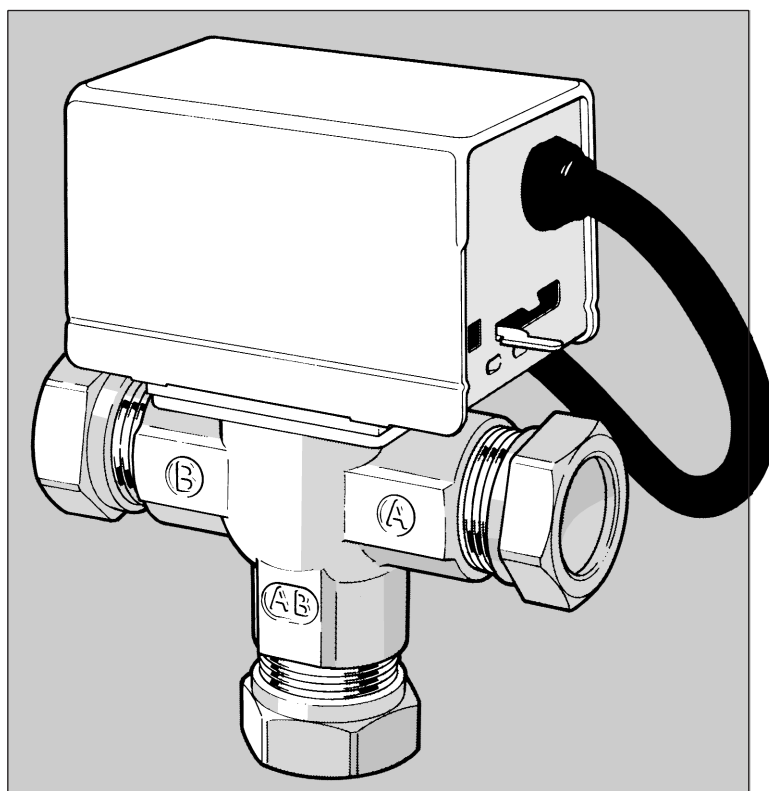


# MID POSITION VALVE

## V4073

### FEATURES

- Spring return action.
- Three position operation.
- Manual lever for filling/draining down.
- Five wire connection.
- Provides electrical control of pump and boiler.
- Powerhead replaceable without draining down.
- Motor changeable without replacing whole powerhead.
- Quiet operation, minimal power consumption.



### APPLICATION

The V4073A valve has been designed to control the flow of water in small bore domestic central heating systems, where both radiator and hot water cylinder circuits are pumped. It is typically suited for small to medium sized installations.

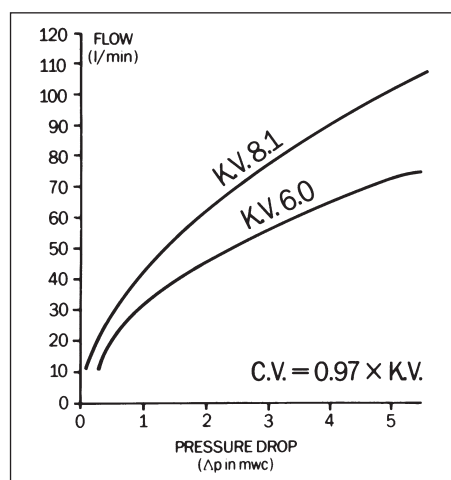
The V4073A mid-position diverter valve is normally used in conjunction with a room thermostat and cylinder thermostat to provide full temperature control of a conventional, fully pumped central heating installation. When used in this way, the control system is known as Sundial Y Plan and the components can be connected together using the Sundial Plan Wiring Centre which has dedicated terminations and there is no need for a wiring diagram. An alternative method of wiring is to use the Honeywell 10-way junction box (42002116-001) together with the Honeywell Sundial Plans Wiring Booklet.

## Installation

The valve must be positioned where it cannot block any vent or cold feed, when either Port A or B is closed. It may be plumbed in at any angle, but must **not** be mounted so that the powerhead is below the horizontal level of the pipework.

The valve must not be mounted on the return under any circumstances. If fitted in a confined space, sufficient ventilation must be available to keep the valve within its ambient temperature range and access must be provided to remove the powerhead if necessary.

## Flow Characteristics



## Valve Options

The V4073A operates as follows:  
 No power (on valve) = HW only (port B open).  
 240V on white wire = HW + CH (mid position)  
 240V on white & grey wires = CH only (port A open)  
 + 240V output on orange wire  
 240V in grey wire = valve hold in last position  
 + approx 100V output on orange wire.



## Specification

Voltage Rating	: 230 Volts AC 50Hz
Switch Rating	: 2.2A
Power Consumption	: 6 watts
Timings (Nominal)	: Valve opens to Port A (from Port B) in 18 seconds (under power) Valve opens to Port B in 8 seconds (under spring return)
Ambient Temperature	: 50°C max
Flow Temperature	: 5°C to 88°C max
Static Pressure	: 8.6 bar max
DHW	: Port B
CH Circuit	: Port A
Electrical Connections	: 1m flying lead, heat resistant cable
EC Directive	: Conforms to 89/336/EEC & 73/23/EEC

NOTE: Continuous operation of the valve motor at the fully open position is not recommended

## Ordering Specification

MODEL	PIPE CONNECTIONS	K.V. ONE PORT	DIFFERENTIAL PRESSURE FOR CLOSE OFF
V4073A1039	22mm Comp.	6.0	0.69 bar max
V4073A1054	$\frac{3}{4}$ " BSP Female	6.0	0.69 bar max
V4073A1062	1" BSP Female	8.1	0.55 bar max
V4073A1088	28mm Comp.	8.1	0.55 bar max

## Dimensions (mm)

	A	87
	B	98
	C	60
	D $\frac{3}{4}$ "	94
	22mm	112
	1"	94
	28mm	117
	E $\frac{3}{4}$ "	124
	22mm	133
	1"	124
	28mm	137