

## Application

The ZL-2130 motorised valve has been designed to control the flow of water in a small bore domestic central heating system where both radiator and hot water cylinder circulation are pumped. It is typically suited for systems up to 90,000 Btu/h (26 KW).

## Specifications

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) (under Valve opens to Port B in 8 seconds spring return)
Ambient Temperatur	: 50°C max
Flow Temperatur	: 5°C to 88°C max
Static Pressure	: 8.6 bar max
DHW	: Port B
CH Circuit	: Port A

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

## Dimensions (mm)

	A	87
	B	98
	C	60
	D	3/4
	22mm	112
	1"	94
	28mm	117
	E	3/4
	22mm	133
	1"	124
	28mm	137

## Installation

ZL-2130 incorporates a manual lever, the lever should normally be in 'AUTO' position, but can be moved to 'MAN OPEN' position for system draindown and filling purposes only.

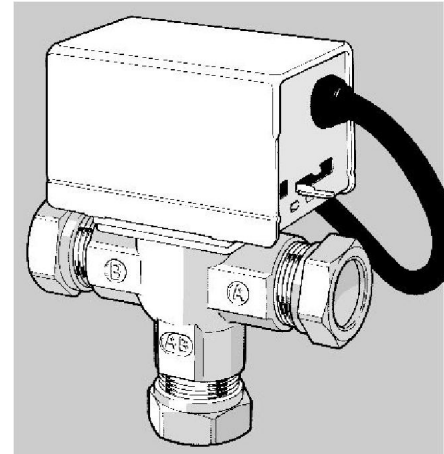
Before fitting the valve, read through the plumbing and wiring instructions.

## Plumbing

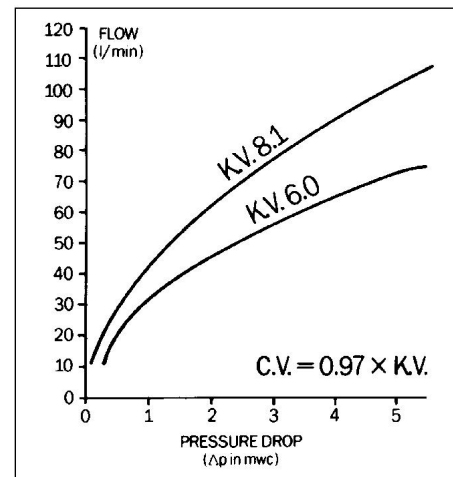
The valve MUST NOT be fitted on the return pipework under any circumstances. Flow from the boiler must be connected to port AB, the radiator circuit to port A and the hot water cylinder circuit to port B.

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 (32mm 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.



## Flow Characteristics



## Description for Wiring

White = Heating on      Blue = Neutral  
Grey = Hot water off      Green/Yellow = Earth  
Orange = Boiler and pump live

## 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.

