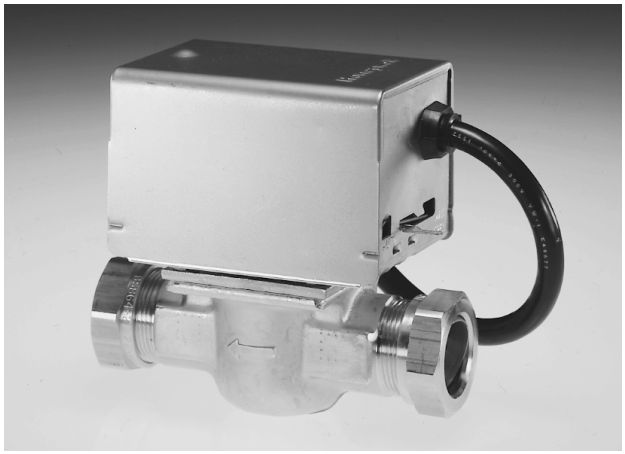
ZL-2129 Motorised Zone Valve Instructions

Application

The motorized zone valve ZL-2129 has been designed to control the flow of water in iron and copper pipe systems. Although specifically designed for small bore central heating systems, the valve can be used in commercial and industrial applications.



Specifications

Voltage: 220-240V ~ 50Hz

Power consumption: 6W

Lead supplied: 1 metre, 5 core

Operating temperature range: +5 to +88°C

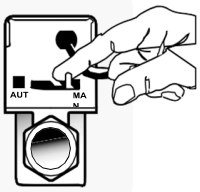
Maximum ambient temperature: +52°C

Pipe fitting sizes:
22mm & 28mm compression fitting, ¾" & 1" BSP

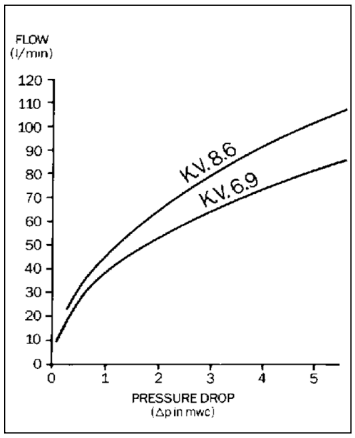
Dimensions and KV values: See diagrams

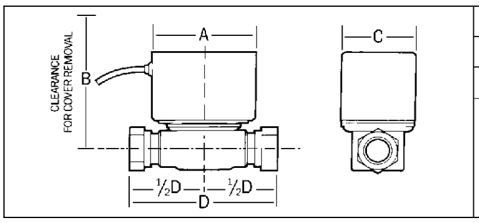
Installation

ZL-2129 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.



Flow Characteristics





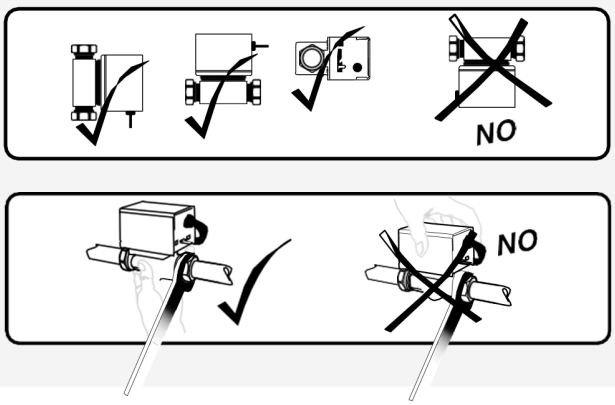
A		87
B		98
C		60
D	½"	94
	22mm	112
	1"	92
	28mm	117

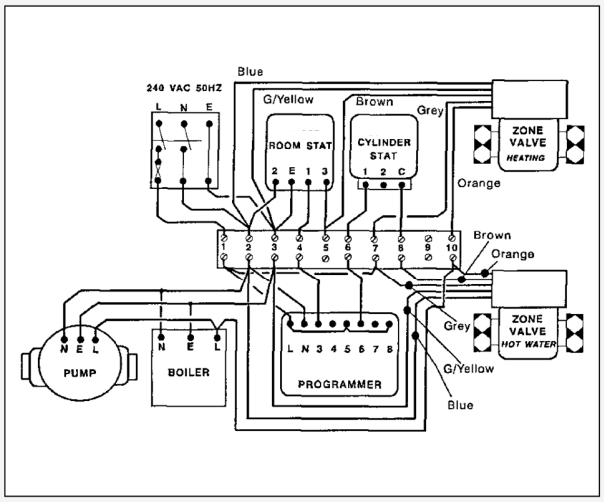
Plumbing

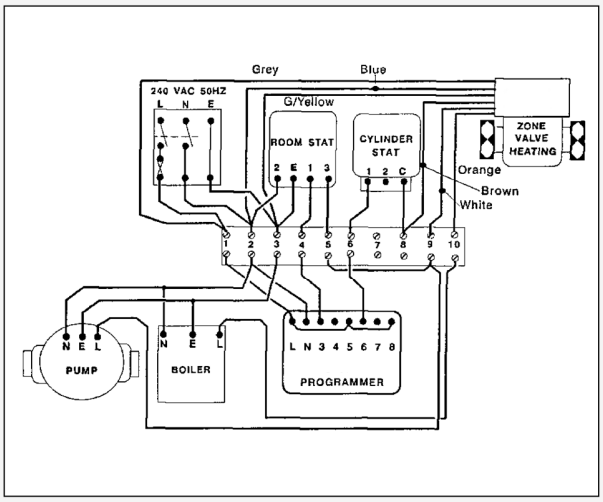
The valve may be plumbed in at any angle but must not be mounted so that the valve head is below the horizontal level of the pipework. In the unlikely event of a leak a safety hazard could result.

Do not grip the valve head while making and tightening up plumbing connections. Attach a spanner (32mm or 1¼" 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.







Wiring

The wiring diagram above shows relevant connections to a junction box. 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.

Notes:

a Wiring diagram shows connections to a programmer with separate control of heating and hot water.
b If single channel time clock is used, connect switched live from time clock to terminal 4 or 6 at junction box, then link terminal 4 to terminal 6 with a link wire.

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 a Check manual lever is in 'AUTO' position.

b Check programmer has power.

c Check boiler is switched on and its thermostat set to maximum.

2 Confirm correct hot water functions as follows:

a Turn room thermostat to minimum setting or switch off at programmer.

b Set cylinder thermostat to maximum and programmer to 'HOT WATER ON'.

c Pump should run (S Plan ONLY) and boiler should fire (S and C Plan). Feel pipe approximately 12" from valve port it should get hot.

3 Confirm correct heating functions as follows:

a Turn cylinder thermostat to minimum or switch off at programmer.

b Set room thermostat to maximum and programmer to 'CENTRAL HEATING ON'.

c Boiler should fire and pump should run. Feel pipe approximately 12" from pump (C Plan), or valve (S Plan) it should get hot.

Completion

Reset both thermostats to temperature required, normally 60°C for cylinder thermostat and 20°C for room thermostat. Return programmer to 'Auto' or mode selected by householder. ENSURE THAT VALVE HEADS HAVE FREE AIR MOVEMENT AROUND THEM.

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