



### Important: Keep this document

The C1P range of actuators c/w auxiliary switch are specifically designed for use in domestic applications only.

They are not designed for use in commercial or industrial applications such as schools, nursing homes or hotels where large commercial pump sets are fitted.

Warranty will be void if a valve is fitted in any application other than domestic.

Please note we have a full range of commercial and industrial valves to suit every application.

**CAUTION!** Installation and connection should only be carried out by a qualified person and in accordance with wiring regulations.

- Do not open the products. There are no serviceable or adjustable parts inside. The system must be fused to no more than 3 Amps.
- Isolate mains supply before installation commences.
- Isolate mains supply before attaching cable to actuator.
- Isolate mains supply before detaching cable from actuator.
- If this equipment is installed or used in a way not specified by the manufacturer, its safety may be impaired.

## TECHNICAL SPECIFICATION

ACTUATOR	MANUFACTURER	MODEL	SIZE & TYPE	MAX. CLOSE OFF PRESSURE
C1P replacement for	Honeywell	V4043H	22mm Compression	1.0 Bar
	Honeywell	V4043H	28mm Compression	0.6 Bar
	Horstmann	Z222	22mm Compression	1.0 Bar
	Horstmann	Z228	28mm Compression	0.6 Bar

### ACTUATOR

Motor supply voltage	230V	Impedance protected motor	
Rated impulse voltage	2500V	Auxiliary switch rating	11(3)A
Power consumption	5W	Protection rating	IP20
Max. ambient temperature	50 °C		

LEAD SUPPLIED	1.2 metre cable. Earth Connection required.
ACTUATOR OPERATION	230V Power to open - Spring return to close.
	This is not a fail safe, a no fail or a safety product.
	This control is designated Type 1. AA. C in accordance with EN60730.
	Type of movement is rotary.
MANUAL OVERRIDE	Valve may be manually opened for filling or draining the system.
	In normal operation, the lever must be in the Auto position
	If the mains power is disconnected, the valve will automatically spring return to the closed position (Port A)

# INSTALLATION & OPERATING INSTRUCTIONS

## 1. Removal of actuator from the valve body

To remove the actuator head from the valve body ensure that the manual override lever is in the manual position.

## 2. Fitting of actuator to the valve body

Prior to fitting the actuator to the valve, the steel plate supplied with the actuator must be fitted to the valve. The screws supplied with the steel plate will hold the plate in position.

Before fitting the actuator, please ensure that the manual override lever is in the raised manual position. The actuator is mounted by aligning the 4mm flat spindle on the valve body to the identically sized slot on the actuator. When the valve and actuator are successfully coupled, the actuator locking mechanism will "click" into place. Once the actuator is fitted, return the manual override lever to the auto position.

## 3. Wiring Connections

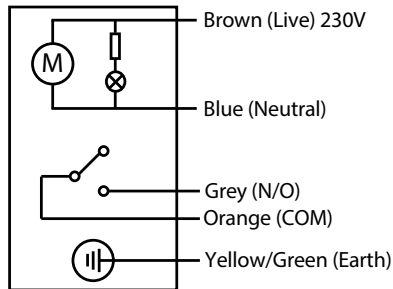
### 3.1 The 1.2 metre cable can be connected as follows:

WIRE COLOUR	DESCRIPTION
Brown	230V live (normally connected via room or cylinder stat)
Blue	Neutral supply
Grey	Auxiliary switch N/O (normally connected to Boiler and Pump)
Orange	Auxiliary switch COM (normally connected to 230V)
Yellow / Green	Earth connection

### CAUTION!

- Ensure that no more than a 3A fuse is used to supply all controls.
- Electrical installation must conform with current I.E.E. regulations.

### 3.2 Diagram:



The auxiliary switch can be used as an interlock facility, thereby ensuring any auxiliary equipment is switched OFF when the valve is in the closed position. When the valve is in the fully open position the auxiliary equipment will be switched ON.\*

## 4. Commissioning

- Ensure the manual override lever is in the Auto position.
- Switch on the relevant channel on the programmer.
- Set the thermostat to maximum.
- The valve should move to the fully open position.
- The auxiliary switch should close and thereby switch ON any auxiliary equipment.\*

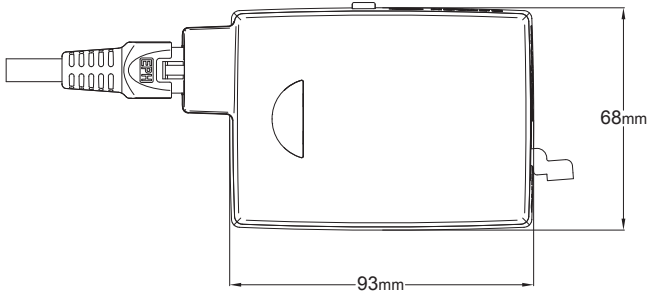
Once satisfied with valve operation. Reset the programmer and thermostat to normal operating conditions.

\* Examples of auxiliary equipment include boilers and pumps

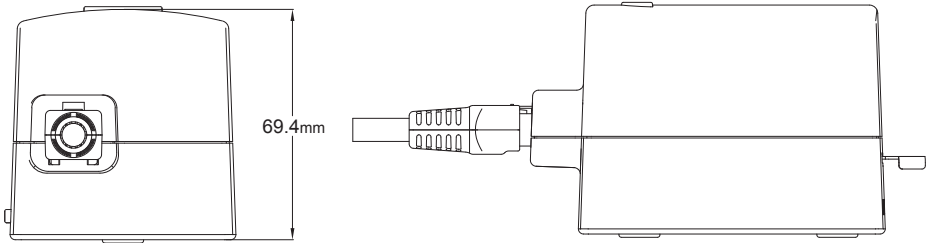
## WARNING!

- Under no circumstances should the actuator be insulated or covered by any other material.
- Lack of ventilation will cause the actuator to heat up beyond the maximum permissible ambient temperature of 50°C.

Top view



Side view



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The crossed out wheelee bin symbol on this product indicates that this product must not be disposed of in your general waste. It can be taken to your Local Authority Civic Amenity site for free or returned to your retailer for free when you are buying a replacement. Inappropriate waste handling could lead to negative effects on the environment and human health. With your cooperation you contribute to the correct disposal, reuse, recycling and recovery of the components of this product and the protection of the environment.



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