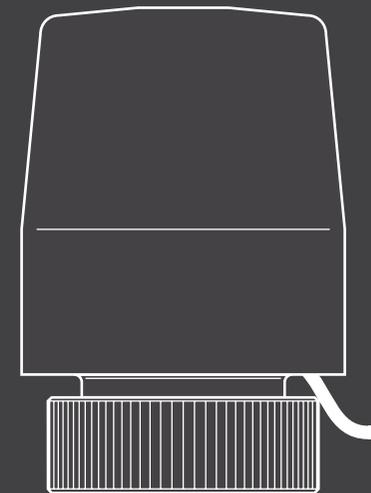


WATERWARE

Electrothermal Actuator

EA656102 - EA656112



Technical Installation Manual

PH 09 273 9191 | info@waterware.co.nz
PO Box 58 776 Botany, Manukau
waterware.co.nz

WARRANTY

If any material defect arising from the manufacturing process is found in a new tap or valve Waterware Services Ltd. will undertake to repair or replace it (at its option). This undertaking will not apply if:

1. The defect is brought to Waterware's attention later than 5 years from the date of manufacture.
2. Failure by any person to follow installation instructions or installation in an environment outside the recommended limitations or relevant NZ and or Australian Standards and local plumbing codes. No installation should proceed without installation instructions and claims instructions were missing are not accepted as a means of avoiding this condition.
3. Evidence cannot be produced which confirms that the relevant tap or valve was purchased from a known customer of Waterware Services Ltd.
4. Repair work is undertaken without prior arrangement with Waterware Services Ltd.
5. Normal maintenance requirements, refer to specific product maintenance guides.

Waterware Services Ltd. shall in no way be liable for any loss, damage (direct, indirect or consequential), cost or expense suffered or incurred by the purchaser. Obligations accepted by Waterware Products Ltd. are.....

..... in addition to all other rights and remedies had by the Purchaser in law in respect of the valve and does not limit the right the Consumer may have under the Consumers Guarantee Act 1993.

..... subject to the exceptions and conditions previously listed. All expressed or implied conditions, statements or warranties as to the quality or fitness on any purpose of a tap or valve or otherwise are hereby expressly excluded to the fullest extent permitted by law except under conditions and warrants which cannot be legally excluded by law and which are intended in the contract for the supply of the valve by the Trade Practises and any other Act of Law.

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THERMO-ELECTRIC ACTUATOR

FUNCTION

The thermo-electric actuator, in conjunction with convertible thermostatic radiator valves, with radiator and underfloor heating systems distribution manifolds and with zone valves, allows automatic shut-off of the system fluid under the control of a room thermostat or of another electrical switching device.

TECHNICAL SPECIFICATION

MATERIALS

Protective cover - self-extinguishing poly carbonate

Colour - white RAL 9010

Normally closed

Power supply - 220V (ac)

Starting current - ≤ 1 A

Working current - 220V (ac) = 13mA

Power consumption - 3W

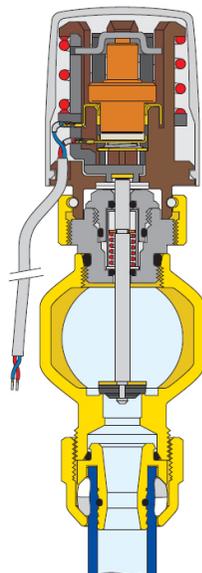
Rating of auxiliary micro-switch contacts - 0.8A (220V)

Level of protection - IP44 (in vertical position)

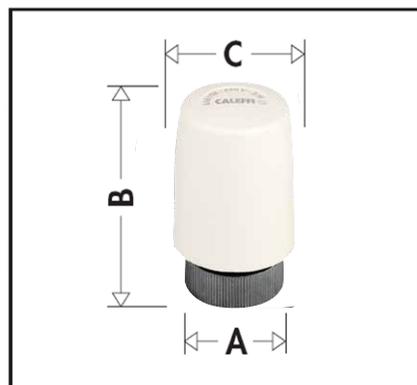
Max ambient temperature - 50°C

Operating time - opening and closing from 120s to 180s

Supply cable length - 80cm

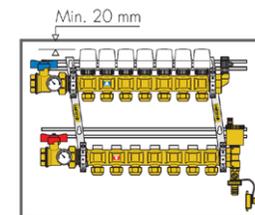


Code	A	B	C
656102	M 30 x 1,5	62	41
656112	M 30 x 1,5	62	41



INSTALLATION

- The thermo-electric actuator should be tightened by hand without the use of tools.
- The thermo-electric actuator should not be dismantled for possible repair. Such interference could lead to permanent damage.
- The actuator should always be fitted in a horizontal or vertical position, never upside-down. In chilled water circuits, positions which allow condensation to get into the actuator are not advisable.
- For the correct functioning of the actuator, the electrical circuit should be sized on the basis of the starting current.
- If it is necessary to control multiple zones with actuators in parallel using the same thermostat, the possibility of including an intermediate relay to prevent electrical overload should be considered.
- In assemblies with zone valve or manifolds in manifold boxes, a space of at least 20mm between the thermo-electric actuator and the frame should be left for possible servicing or replacement.

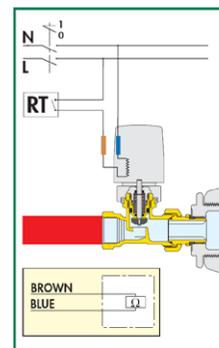


OPERATING PRINCIPLE

With the power off, the device (actuator + valve) is 'normally closed'. With power on, the valve opens thanks to the action of a wax expansion thermostatic element, directly controlled by a PTC resistor.

CONSTRUCTION DETAILS

EA656102



EA656112

