

# R473E, R473HE



Radiant Systems Energy Management

## Normally Closed thermo-electric actuators

Datasheet  
1100EN 10/2025



R473E



R473HE



The best solution to enjoy ideal control of the room temperature by combining energy saving to top-notch comfort is the installation of thermo-electric actuators on distribution manifolds, valves with thermostatic option or fan coil valves. The normally closed R473E/R473HE thermo-electric actuators are totally noiseless and highly durable as they do not include mechanisms subject to wear and tear. In addition, they close sufficiently slowly to prevent water-hammering.

### Versions and product codes

| PRODUCT CODE | POWER SUPPLY | TYPE OF CONNECTION                                  |
|--------------|--------------|---|
| R473EX001    | 230 Vac      | Adaptor for Giacomini Clip Clap connection included |
| R473HEX001   | 230 Vac      | Adaptor for M30 x 1,5 mm connection included        |

#### Spare parts

- R453EX001: adaptor for Giacomini Clip Clap connection
- R453HEX001: adaptor for M30 x 1,5 mm connection

## ➤ Technical data

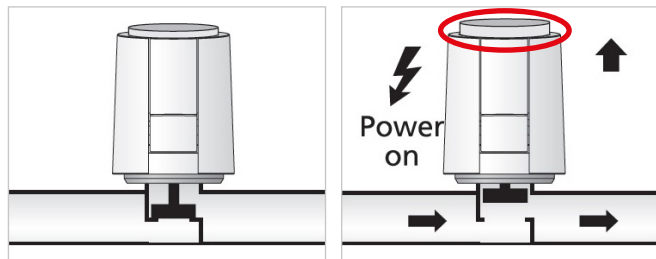
- Position with no power: normally closed (N.C.)
- Mechanical position indicator
- Linear movement
- Actuator useful stroke: 5,0 mm
- Thrust force: 100 N  $\pm$  10%
- Room temperature range: 0÷60 °C
- Storage temperature range: -25÷60 °C
- Fluid temperature range: 0÷100 °C
- Opening/closing time: ~4 min.
- Protection degree: IP54
- Power supply wire: light gray (RAL 7035); useful length 1 m
- Shell material: polyamide, light gray (RAL 7012)
- Weight with power cable: 100 g
- Complying to EN 60730- 60730 Standards
- TÜV Süd certification

### Electric data

| PRODUCT CODE | ABSORBED POWER | VOLTAGE        | MAX PEAK CURRENT | OVERVOLTAGE PROTECTION | POWER SUPPLY WIRE SECTION | PROTECTION CLASS |
|--------------|----------------|----------------|------------------|------------------------|---------------------------|------------------|
| R473EX001    | 1 W            | 230 V 50/60 Hz | ≤ 550 mA         | 2,5 kV                 | 2 x 0,75 mm <sup>2</sup>  | II               |
| R473HEX001   | 1 W            | 230 V 50/60 Hz | ≤ 550 mA         | 2,5 kV                 | 2 x 0,75 mm <sup>2</sup>  | II               |

## ➤ Main features

### Mechanical position indicator



R473E/R473HE thermo-electric actuators are provided with a mechanical position indicator on the upper part which shows the actual position of the actuator and the valve it serves.

When powered electrically, the actuator opens the valve. A raised indicator means that the valve is open.

## ► Installation

### Possible installation positions

The thermo-electric actuator can be installed horizontally or vertically.

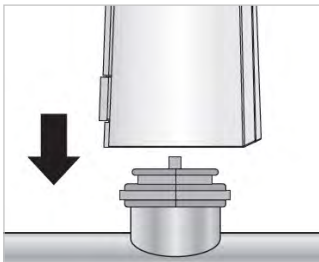
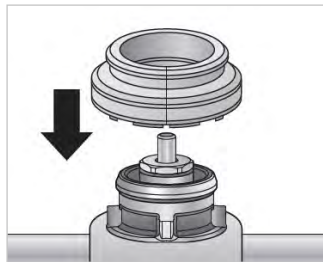
**▲ WARNING.** Installing the product upside down may reduce its duration under special conditions (e.g. contaminated water).



### Installing R473E actuators on valve bodies

To install the thermo-electric actuators on valves and/or manifolds with Giacomini Clip Clap connection, follow the steps below:

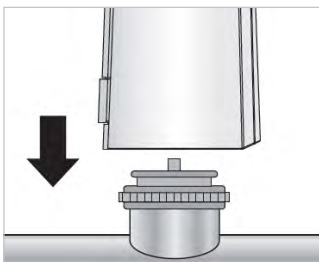
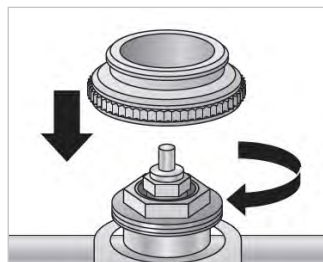
- 1) manually install the adaptor included on the valve body;
- 2) place the thermo-electric actuator vertically to the adaptor;
- 3) install the thermo-electric actuator on the adaptor pushing it till it **CLICKS** into position;
- 4) wire the actuator carefully following the diagram of the instructions provided.



### Installing R473HE actuators on valve bodies

To install the R473HE thermo-electric actuators on valves and/or manifolds with M30 x 1,5 mm connection, follow the steps below:

- 1) manually screw the adaptor included on the valve body;
- 2) place the thermo-electric actuator vertically to the adaptor;
- 3) install the thermo-electric actuator on the adaptor pushing it till it **CLICKS** into position;
- 4) wire the actuator carefully following the diagram of the instructions provided.



### ▲ WARNING.

- The actuator shell cannot be disassembled and should never be opened.
- Tampering will immediately void the product warranty.
- The power supply cable cannot be replaced; should the cable be damaged, replace the actuator.
- Only qualified operators should carry out the electric connections after shutting down the power and carefully checking the voltage, which must match the one indicated.
- Only connect the power wires to the distribution line under safe conditions as provided for by the Technical Standards in force in the country of use.
- Giacomini S.p.A. will not be held liable for damages caused to individuals or properties by misuse.

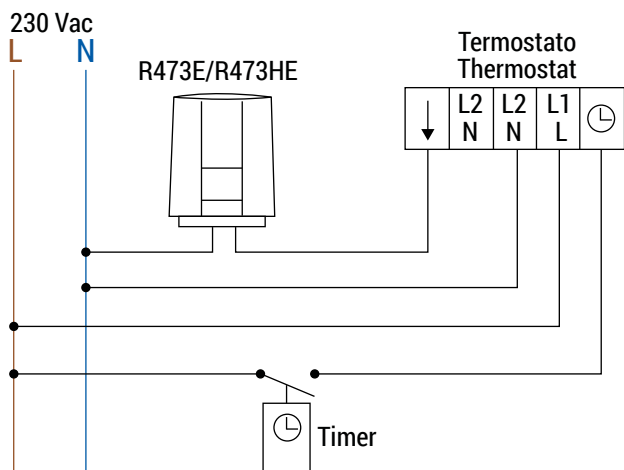


**GIACOMINI**  
WATER E-MOTION

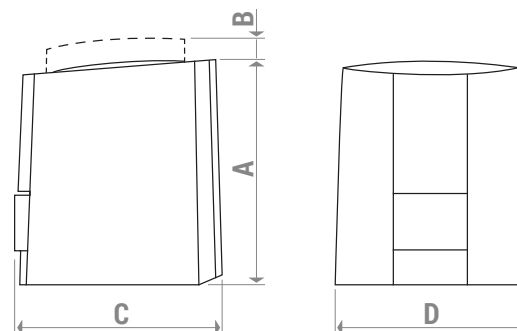


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## Electric connections



## Dimensions



| A [mm] | B [mm] | C [mm] | D [mm] |
|--------|--------|--------|--------|
| 53     | 7      | 49     | 45     |

## Product specifications

### R473E

Normally Closed thermo-electric actuator for valves with thermostatic option and/or manifolds with Clip Clap connection. Power supply voltage 230 V. 2-conductor wire, length 1 m. Type of protection IP54. Quick-connection with Clip Clap adaptor included. Mechanical position indicator. Room temperature range 0÷60 °C. Complying to EN 60730 standards. TÜV Süd certification.

### R473HE

Normally Closed thermo-electric actuator for valves with thermostatic option and/or manifolds with M30 x 15 mm connection. Power supply voltage 230 V. 2-conductor wire, length 1 m. Type of protection IP54. Quick-connection with M30 x 1.5 mm adaptor included. Mechanical position indicator. Room temperature range 0÷60 °C. Complying to EN 60730 standards. TÜV Süd certification.

**⚠ Safety Warning.** Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

**♻ Package Disposal.** Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

**ℹ Additional information.** For more information, go to [giacomini.com](http://giacomini.com) or contact our technical assistance service. This document provides only general indications. Giacomini S.p.A. may change at any time, without notice and for technical or commercial reasons, the items included herewith. The information included in this technical sheet do not exempt the user from strictly complying with the rules and good practice standards in force.

**♻ Product Disposal.** Do not dispose of product as municipal waste at the end of its life cycle. Dispose of product at a special recycling platform managed by local authorities or at retailers providing this type of service.