

# K272Y101, K272Y102 (K272)



Energy  
Management

Datasheet  
0752EN 04/2024

## ON/OFF actuator for R276, R276B, R277, R278, R279, zone valves and R279D diverting valves, with knob for manual operation



The K272Y101/K272Y102 actuator is used to control the R276, R276B, R277, R278, R279, zone valves or the R279D diverting valves in HVAC systems. Equipped with a knob for manual operation.

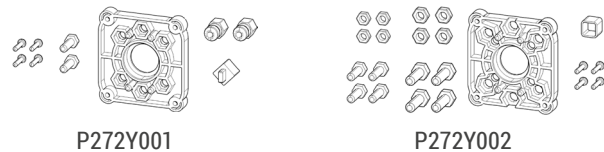
### Versions and product codes

PRODUCT CODE	POWER SUPPLY	USE
K272Y101	230 V - 50 Hz	R276, R276B, R277, R278, R279 zone valves R279D diverting valves
K272Y102	24 V - 50 Hz	

- NOTE.** The following kits are also supplied along with the actuator:
- P272Y001: Giacomini kit for installation of K272 on R276, R277, R278, R279, R279D valves
  - P272Y002: ISO5211 kit for installation of K272 on R276B valves

### Spare parts

- P272Y001: Giacomini kit for installation of K272 on R276, R277, R278, R279, R279D valves
- P272Y002: ISO5211 kit for installation of K272 on R276B valves

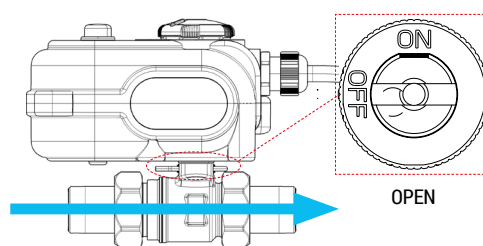
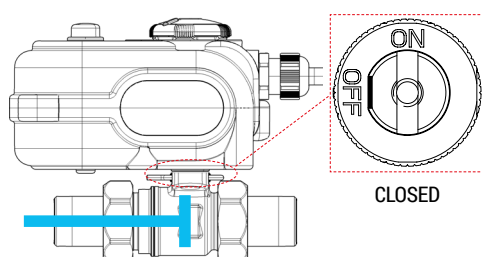


## ➤ Technical data

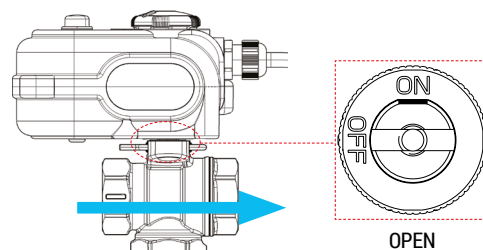
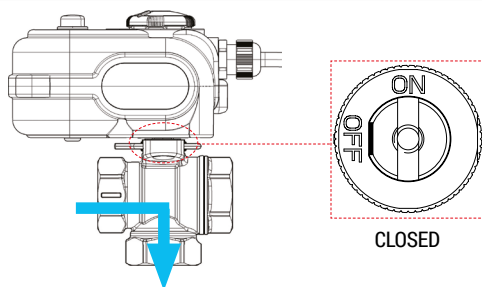
- Type of command: ON/OFF
- Rotation angle: 90°
- Opening time: 60 s
- Maximum torque: 18 Nm
- Power: 6 W
- Auxiliary microswitch for end stop (contact flow rate): 6 (1) A
- Protection class: II
- Insulation class: IP65
- Ambient operating temperature range: -5÷55 °C
- Max. ambient humidity: 95 %
- Storage temperature range -20÷70 °C.

## ➤ Operation

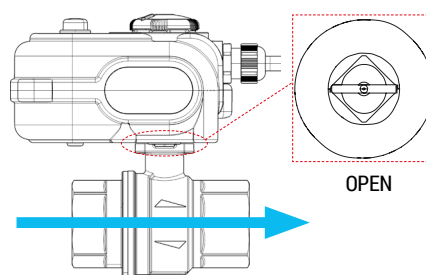
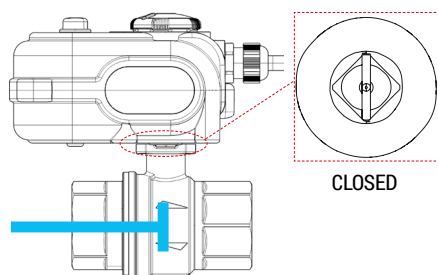
### Operation with R276, R277 zone valves



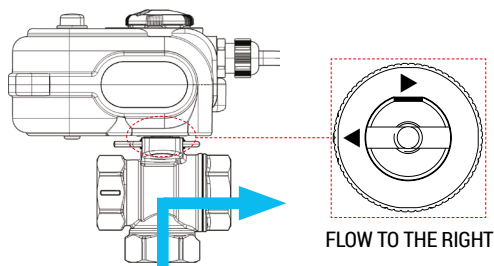
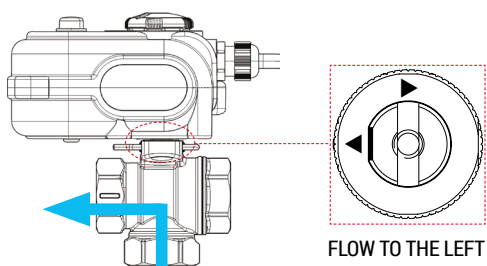
### Operation with R278, R279 zone valves



### Operation with R276B zone valves



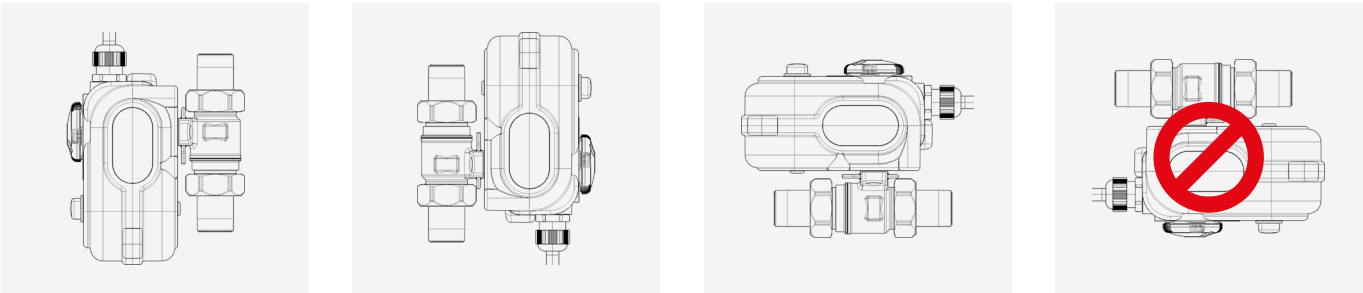
### Operation with R279D diverting valves



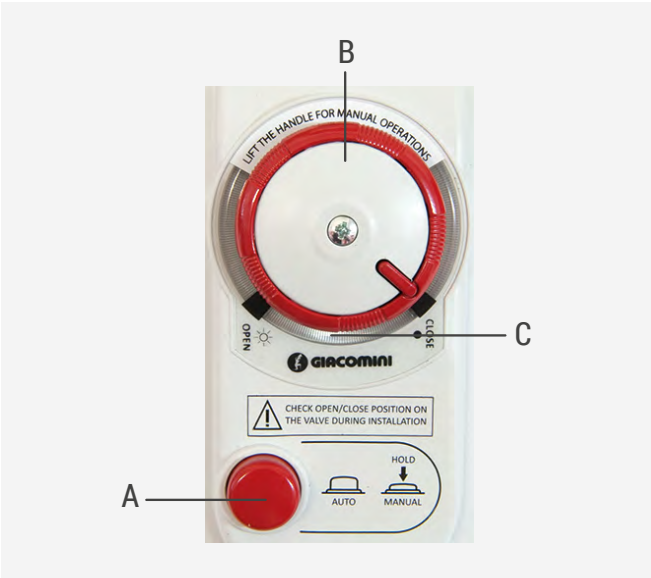
# Installation

The K272 actuator must be installed in a horizontal or vertical position with the cover facing upwards, in a dry, protected and easily-accessible location for any future maintenance. Do not cover with insulating material.

## Allowed Positions



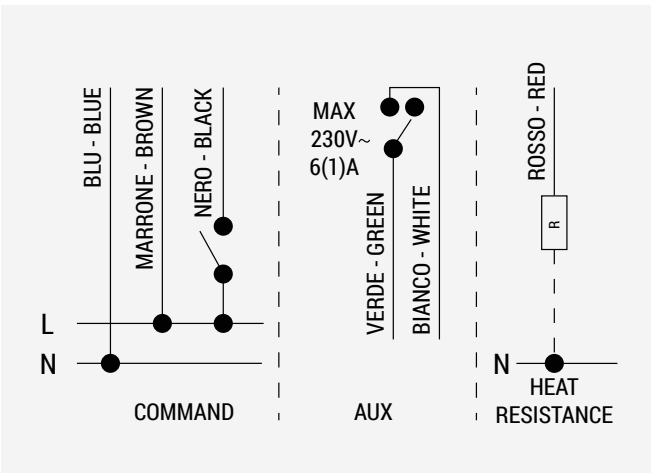
## Manual command



To initiate the actuator manually, keep the red "A" button pressed down and turn the red "B" knob to the desired position.

The Led "C" indicates the status of the motor function - see section on "Description of commands" in the next column.

## Electrical connections



WIRE COLOR	FUNCTION
Blu - Blue	Neutral
Marrone - Brown	Phase
Nero - Black	Command
Verde/Bianco - Green/White	Auxiliary contact
Rosso - Red	Anti-condensate resistance

**⚠ WARNING.** The anti-condensate resistance is always active when connected. Use: Ambient temperature < 10 °C Ambient temperature 30÷45 °C and fluid temperature < 15 °C (chilled water)

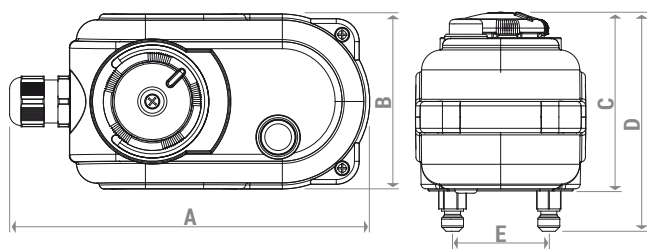
## Description of the commands

ACTION	INPUT	AUXILIARY CONTACT	LED (fig.C)
Closure	Blue / Brown	Open	Off
Opening	Blue / Brown /Black	Closed	On

**⚠ WARNING** Make sure the power supply voltage is disconnected while the connections are being carried out.

**⚠ WARNING.** Carry out and check the electrical connections before powering the system. Short circuits or cables connected improperly may cause permanent damage to the electrical components of the actuator

## ➤ Dimensions



PRODUCT CODE	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
K272Y101	157	76	80	98	43
K272Y102					

## ➤ Reference standards

- EC mark
- Directive EMC 2014/30/EC
- Low Voltage Directive 2014/35/EC

## ➤ Product specifications

### K272Y101

Rotary actuator for controlling the R276, R276B, R277, R278, R279 zone valves or the R279D diverting valves in HVAC systems. Equipped with a knob for manual operation. Power supply 230 V - 50 Hz. Type of command: ON/OFF. Opening time: 60 s. Maximum torque: 18 Nm. Power consumption: 6 W. Auxiliary microswitch for end stop (contact flow rate): 6 (1) A. Protection class: II. Insulation class: IP65. Ambient operating temperature range: -5 to 55 °C. Max. ambient humidity: 95%. Storage temperature range: -20 to 70 °C. EC Marked. Complies with EMC Directive 2014/30 / EC and Low Voltage Directive 2014/35 / EC.

### K272Y102

Rotary actuator for controlling the R276, R276B, R277, R278, R279 zone valves or the R279D diverting valves in HVAC systems. Equipped with a knob for manual operation. Power supply 24 V - 50 Hz. Type of command: ON/OFF. Opening time: 60 s. Maximum torque: 18 Nm. Power consumption: 6 W. Auxiliary microswitch for end stop (contact flow rate): 6 (1) A. Protection class: II. Insulation class: IP65. Ambient operating temperature range: -5 to 55 °C. Max. ambient humidity: 95%. Storage temperature range: -20 to 70 °C. EC Marked. Complies with EMC Directive 2014/30 / EC and Low Voltage Directive 2014/35 / EC.

**⚠ 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.