

K270Y101, K270Y102 (K270)



Energy
Management

Datasheet
0747EN 04/2024

ON/OFF actuator for R276, R277, R278, R279 zone valves and R279D diverting valves



The K270Y101/K270Y102 actuator is used to control the R276, R277, R278, R279 zone valves or the R279D diverting valves in HVAC systems.

➤ Versions and product codes

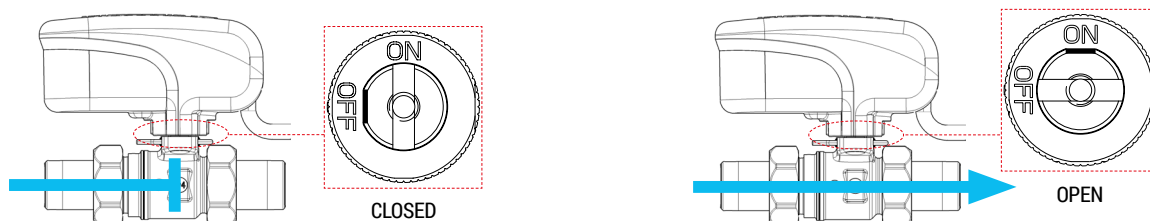
PRODUCT CODE	POWER SUPPLY	USE
K270Y101	230 V - 50 Hz	R276, R277, R278, R279 zone valves R279D diverting valves
K270Y102	24 V - 50 Hz	

➤ Technical data

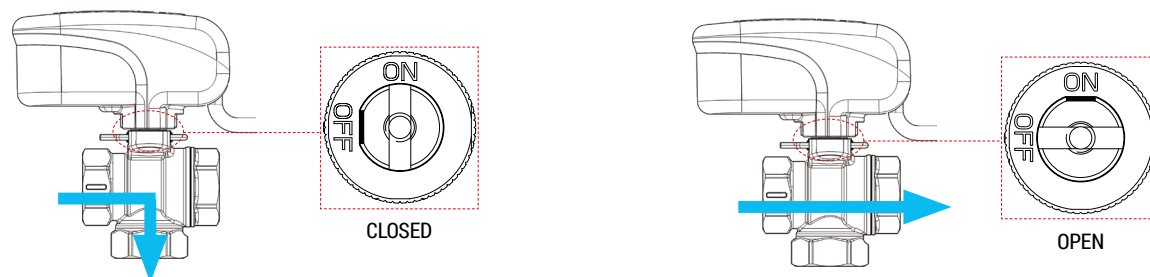
- Type of command: ON/OFF
- Rotation angle: 90°
- Opening time: 40 s
- Maximum torque: 10 Nm
- Electricity absorption: 5,5 W
- Auxiliary microswitch for end stop (contact flow rate): 6 (1) A
- Protection class: II
- Insulation class: IP54
- Ambient operating temperature range: -5÷55 °C
- Ambient humidity range: 95 %
- Storage temperature range: -20÷70 °C

➤ Operation

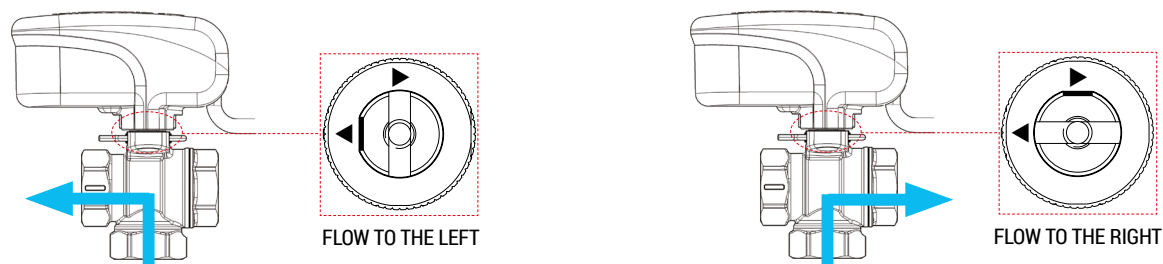
Operation with R276, R277 zone valves



Operation with R278, R279 zone valves



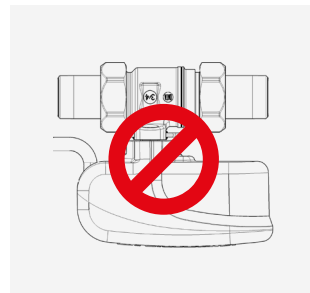
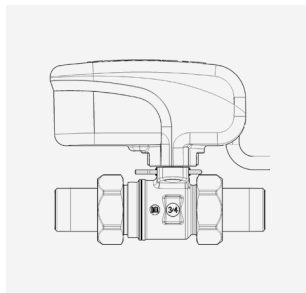
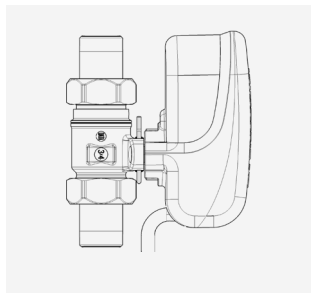
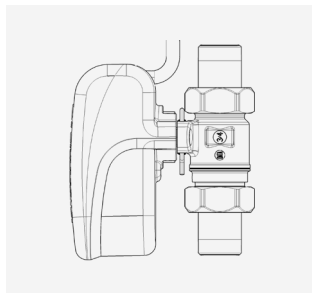
Operation with R279D diverting valves



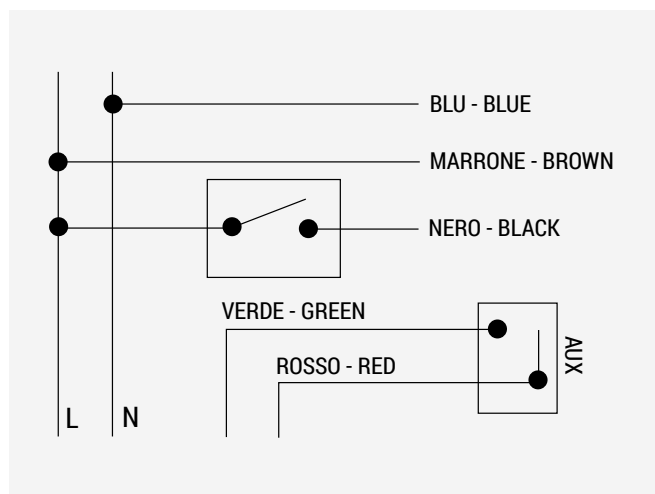
► Installation

The K270 actuator must be assembled horizontally or vertically, with the cover facing upwards. It must be installed in a dry, protected place that can easily be accessed for any necessary maintenance work. Do not cover with insulating materials.

Allowed positions



Electric connections



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

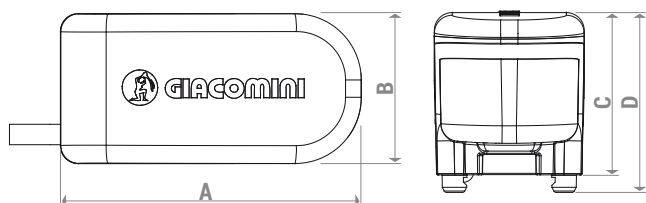
⚠ WARNING. Make and check the electrical connections before powering the system. Short circuits or incorrectly connected cables could cause permanent damage to the electrical components of the actuator.

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

Description of the commands

ACTION	INPUT	AUXILIARY CONTACT
Closure	Blue / Brown	Open
Opening	Blue / Brown / Black	Closed

► Dimensions



PRODUCT CODE	A [mm]	B [mm]	C [mm]	D [mm]
K270Y101	118	59	64	71
K270Y102				

➤ Reference standards

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

➤ Product specifications

K270Y101

Rotary actuator for controlling the R276, R277, R278, R279 zone valves or the R279D diverting valves in HVAC systems. Power supply 230 V - 50 Hz. Type of command: ON/OFF. Opening time: 40 s. Maximum torque: 10 Nm. Electricity absorption: 5.5 W. Auxiliary microswitch for end stop (contact flow rate): 6 (1) A. Protection class: II. Insulation class: IP54. Ambient operating temperature range: -5÷55 °C. Ambient humidity range: 95%. Storage temperature range: -20÷70 °C. EC mark. Complying with Directive EMC 2014/30/EC and Low Voltage Directive 2014/35/EC.

K270Y102

Rotary actuator for controlling the R276, R277, R278, R279 zone valves or the R279D diverting valves in HVAC systems. Power supply 24 V - 50 Hz. Type of command: ON/OFF. Opening time: 40 s. Maximum torque: 10 Nm. Electricity absorption: 5.5 W. Auxiliary microswitch for end stop (contact flow rate): 6 (1) A. Protection class: II. Insulation class: IP54. Ambient operating temperature range: -5÷55 °C. Ambient humidity range: 95%. Storage temperature range: -20÷70 °C. EC mark. Complying with Directive EMC 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.

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♻ 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.