

K281X022 (K281)



Attuatore per valvole miscelatrici e kit fan coil con attacco M30 x 1,5 mm

Datasheet
1225EN 07/2026



Actuator for R298, R298N mixing valves and R280KC, R280KL fan coil kits with M30 x 1,5 mm connection.
24 V power supply.

➤ Versions and product codes

PRODUCT CODE	POWER SUPPLY	TYPE	VALVE CONNECTION	FOR USE WITH VALVE
K281X022	24 Vac/dc	3-point floating / ON-OFF	M30 x 1,5 mm	R298 and R298N mixing valves and R280K, R280KC and R280KL fan coil kits

➤ Dati tecnici

- Type of actuator: 3-point floating or ON-OFF
- Power supply: 24 Vac/dc, 50/60 Hz
- Inlet impedance:
 - voltage: > 100 kΩ
 - current: 500 Ω
- Maximum stroke: 6 mm
- Propulsion force: 120 N
- Opening time at max. speed: 8 s/mm
- Electric absorption: 2,5 VA; 1,5 W
- Protection class: IP54
- Storage temperature range: -20÷65 °C with non-condensing R.H.
- Room temperature working range: 0÷50 °C with non-condensing R.H.
- Electric wire length: 1,5 m (3 x 0.35 mm²)
- Working noise level: < 30 dB(A)
- Ring nut for connection to valve's wbody: M30x1,5 mm, made of brass
- Green LED, operating status indicator
- Weight: 200 g
- Color: white

Materials

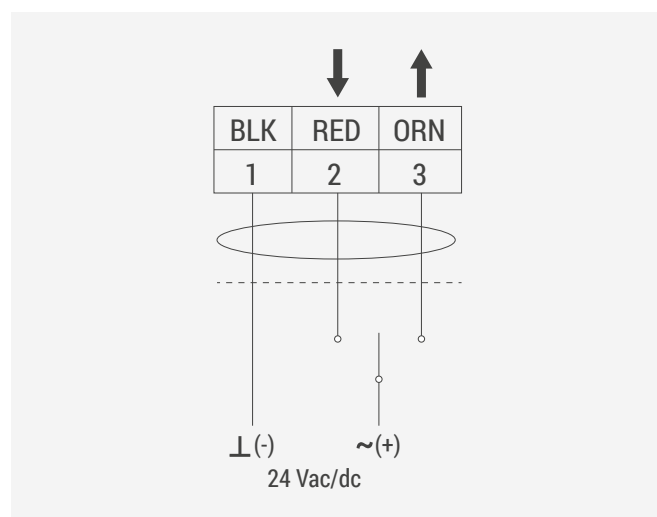
- Lid: ABS + PC
- Stem: PA66 - GF30
- Threaded ring nut: CuZn40Pb2 brass

➤ Electric connections

⚠ WARNINGS.

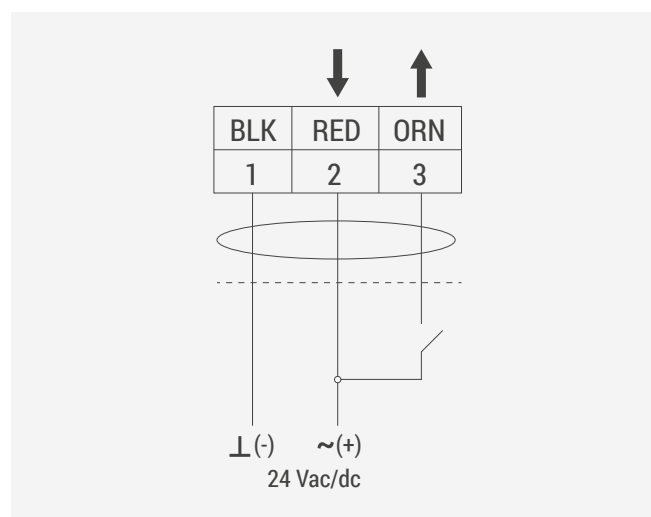
- Make sure to disconnect the power supply during wiring.
- Carry out and check wiring before powering the system. Short circuits or wires improperly connected may permanently damage the electrical components of the actuator.
- Do not touch, try to connect or disconnect the wires with power ON.
- Wiring must comply to the local standards and must be carried out only by qualified operators.
- Keep high and low voltage wires separated.
- Make sure the line voltage complies with the one shown on the device.
- Failure to comply with these instructions may cause injuries or damage the device.

3-point floating



BLACK (BLK)	Common (-)
RED (RED)	Phase (+)
ORANGE (ORN)	Feedback signal

ON-OFF



BLACK (BLK)	Common (-)
RED (RED)	Phase (+)
ORANGE (ORN)	Feedback signal

➤ Operations

Operational status indicators

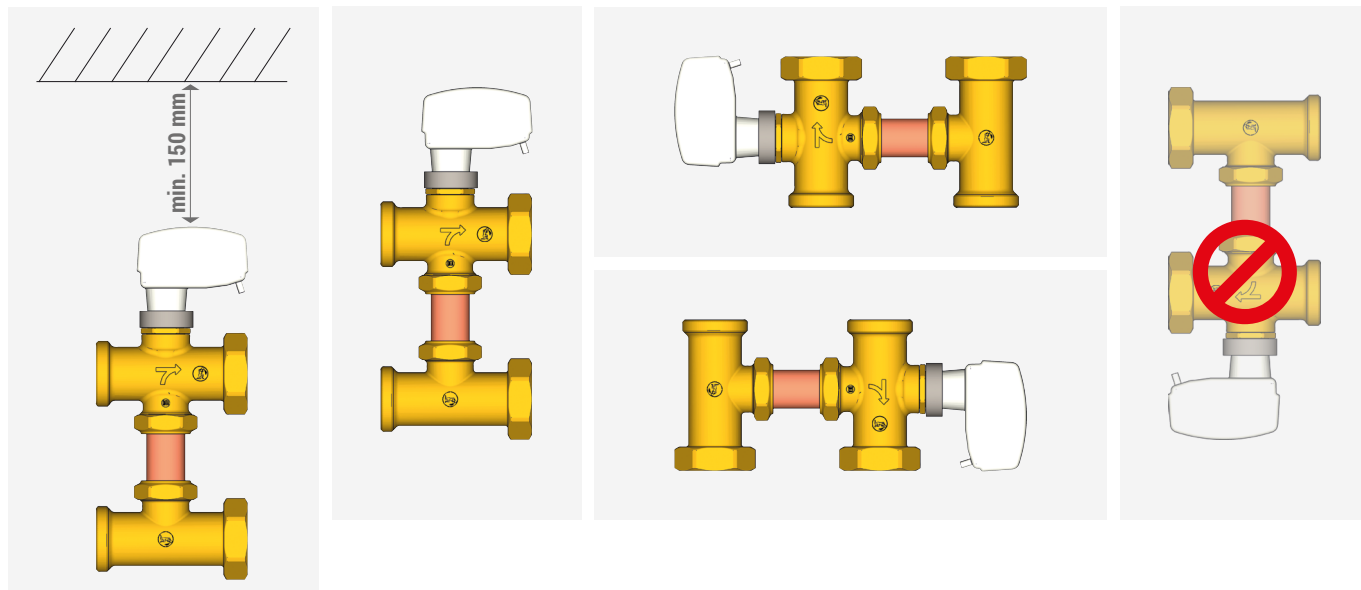
LED		MEANING
OFF	○	No power
Flashing green	⬢	Moving to position
Solid green	⬢	Position reached

The K281X022 actuator features a green LED that provides its operating status.

► Installation

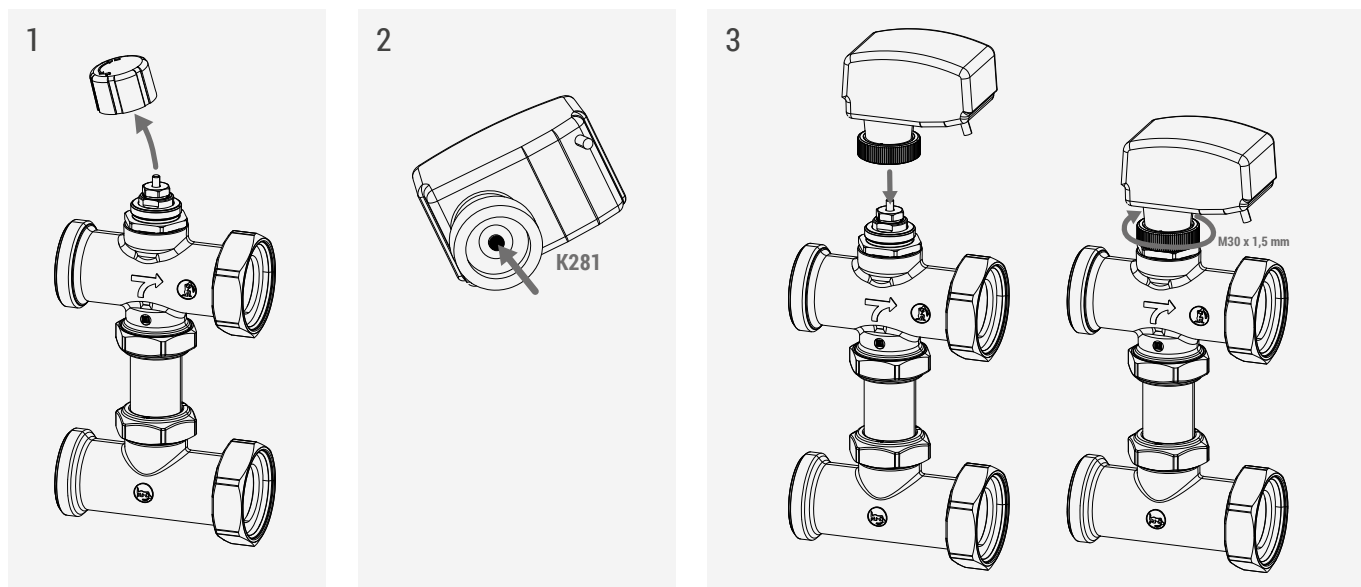
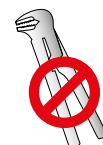
▲ WARNINGS.

- The valve may be installed in any position but the actuator should not be positioned upside down or with the power cable entering from the top (to prevent problems deriving from condensation).
- Do not cover with insulating material.

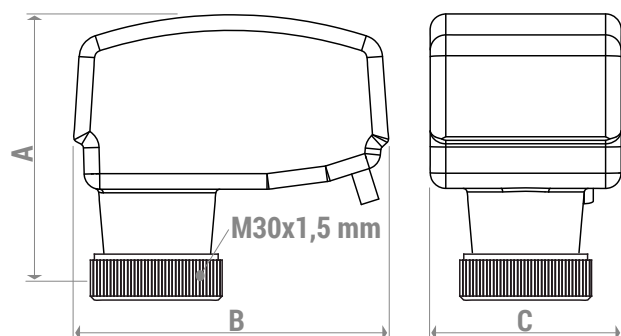


Installation of K281X022 actuator on R298 and R298N valves

- 1) Remove the handwheel from the valve;
- 2) Check that the actuator spindle is fully retracted;
- 3) Screw the actuator on the valve body with the M30 x 1,5 mm threaded ring nut and wire it carefully following the diagram included with the instructions.



➤ Dimensions



PRODUCT CODE	A [mm]	B [mm]	C [mm]
K281X022	74	80	49

➤ Reference standards

- CE and UKCA marking
- EMC 2014/30/EU standard
- LVD 2014/35/EU low-voltage standard
- ROHS 2011/65/EU standard

➤ Product specifications

K281X022

Actuator for R298, R298N mixing valves and R280KC, R280KL fan coil kits. M30 x 1,5 mm brass threaded ring nut for connection to valve body. Power supply: 24 Vac/dc, 50/60 Hz. Absorption 2,5 VA. Max stroke 6 mm. Opening time at 8 s/mm maximum stroke. Protection class IP54. Working room conditions 0÷50 °C with non-condensing R.H. Storage conditions -20÷65°C with non-condensing R.H. Dimensions: 74x80x49 mm. CE and UKCA marking. Compliance with EMC 2014/30/EU standards, Low Voltage Directive LVD 2014/35/EU, ROHS 2011/65/EU.

⚠ 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.