## Product technical data

# V2Z230 Series
# Electric 2-way Valve

2-way Valve

Normally-closed type

DN15 to DN32, PN16

## Product overview

The V2Z230 series electric 2-way valve is designed for use in fan coil units and VAV terminals in refrigeration, heating, ventilation and air-conditioning systems.
Room temperature is controlled by opening or closing the valve to regulate the water flow through the coil.

- Mechanical life: 100,000 cycles
- High flow capacity with low noise
- Compact installation footprint, easy to commission and maintain
- Wide operating range: medium temperature 1°C to 95 °C, PN16 pressure rating, suitable for typical heating and cooling applications

| **Model** | **DN / Rp** | **Kv (Cv)** [m³/h] | **Pressure rating** [kPa] | **Close-off pressure** [kPa] |
|---|---|---|---|---|
| V2Z230.15 | DN15 / R1/2" | 2.2 (2.5) | 1600 | 200 |
| V2Z230.20 | DN20 / R3/4" | 3.0 (3.5) | 1600 | 180 |
| V2Z230.25 | DN25 / R1" | 6.5 (7.5) | 1600 | 150 |
| V2Z230.32 | DN32 / R1 ¼" | 10.0 (11.7) | 1600 | 100 |

## Technical parameters

| | | |
|---|---|---|
| **Performance parameters** | Valve sizes | DN15 / R1/2", DN20 / R3/4", DN25 / R1", DN32 / R1¼" |
| | Medium type | Cold or hot water, or water/glycol (maximum glycol concentration 50 %) |
| | Medium temperature | 1 °C to 95 °C |
| | Rated pressure | PN16 |
| | Valve tube connection | Female threaded |
| **Electrical parameters** | Operating voltage | 230 VAC |
| | Voltage tolerance | ±10 % |
| | Frequency | 50 / 60 Hz |
| | Operational power consumption | Max. 6.5 W |
| | Control mode | On/Off control \| Power on → valve opens<br>Power off → spring return closes valve) |
| | Running time | Opening time ≤ 18 s \| Closing time ≤ 7 s |



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| | | |
|---|---|---|
| **Material** | Valve body: | Forged brass |
| | Valve shaft: | Forged brass |
| | Valve seat | EPDM |
| **Safety performance** | Environmental compatibility | ISO 9001（Quality） |
| | Ambient temperature | 0 °C to 50 °C |
| | Maintenance | Maintenance-free |
| **Size** | Size | See "Dimensions" |

## Functional features / Device installation

### Operating mode

On/Off control:

- The actuator consists of an electric motor with an integrated mechanical fail-safe (spring-return) function.
- When AC power is supplied to the L and N terminals, the valve opens. When power is removed, the actuator automatically returns the valve to the closed position.

Manual operation

- The valve can be opened manually using the actuator lever.
- Move the manual lever slowly and secure it in the locking notch to keep the valve open. When electrical power is applied again, the lever automatically returns to the normal operating position.
- Operate the device according to the instructions indicated on the actuator label.

### Equipment installation

- Before installation, ensure that the pipeline is clean and free from debris or welding residue.
- The actuator must be mounted vertically above the valve body, and the spindle must remain above the horizontal plane.
- Allow sufficient space during installation so that the actuator can be removed from the valve body for maintenance

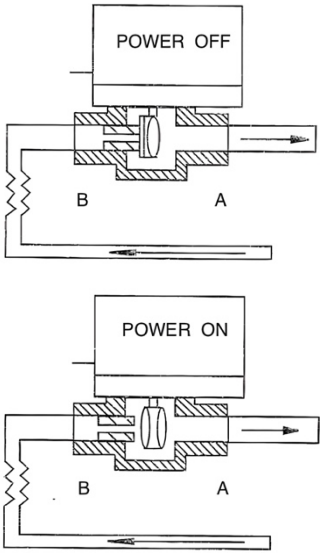
**The valve must not be installed:**

- in explosive environments
- at ambient temperatures above 50 °C or below −5 °C
- in applications involving steam, water jets or dripping water

The two-way valve is normally installed in the supply pipe of the coil.
The flow direction must correspond to the arrow shown on the valve body:

- Port B is the water inlet
- Port A is the water outlet

The A and B markings are located on the underside of the valve body.



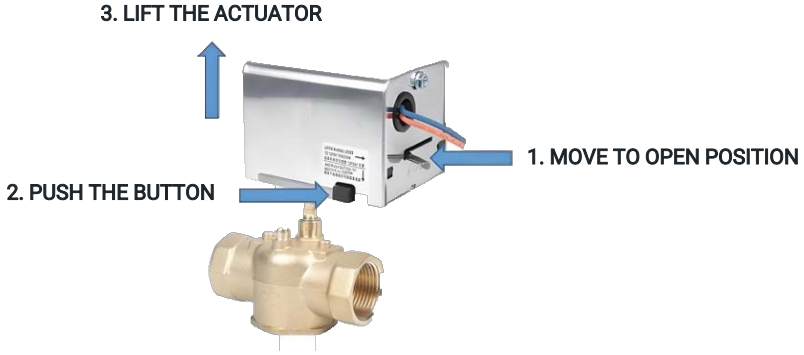

### Detachable actuator

The actuator can be removed without disconnecting the valve body from the piping.

Removal procedure:

1. Move the actuator to the open position.
2. Press the release button.
3. Remove the actuator.

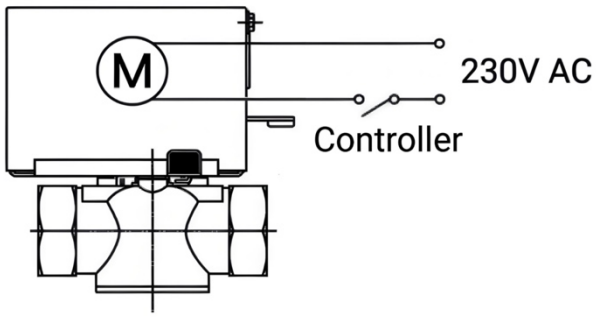
This design simplifies servicing and maintenance.



## Electrical wiring / Safety precautions

**Electrical wiring**

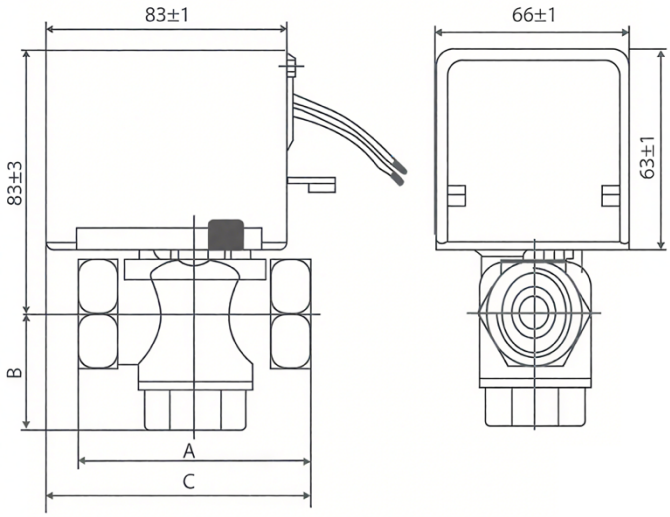
- The actuator electrical connection must comply with local regulations.




**Safety instructions**

- Verify the power supply voltage before connection.
- The device must only be used within the specified application range.
- Installation must be carried out by qualified personnel.
- All applicable local regulations must be observed.
- Do not strike the actuator housing. The device contains no user-serviceable parts.
- The cable must not be removed from the actuator.
- The device must not be disposed of as household waste and must be disposed of in accordance with local regulations.

## Size / Dimensions




| Model | Caliber | | Kv (Cv) | A | B | C | Connection |
|---|---|---|---|---|---|---|---|
| | DN | RP | [m³/h] | [mm] | [mm] | [mm] | |
| **V2Z230.15** | 15 | 1/2" | 2.2 (2.5) | 70 | 23 | 86 | Threaded |
| **V2Z230.20** | 20 | 3/4" | 3.0 (3.5) | 79 | 23 | 90 | Threaded |
| **V2Z230.25** | 25 | 1" | 6.5 (7.5) | 88 | 23 | 95 | Threaded |
| **V2Z230.32** | 32 | 1 ¼" | 10.0 (11.7) | 90 | 24 | 100 | Threaded |