

Product technical data

V3Z230 Series Electric 3-way Valve

Product overview

The V3Z230 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]
V3Z230.15	DN15 / R1/2"	2.6 (3.0)	1600	200
V3Z230.20	DN20 / R3/4"	3.4 (4.0)	1600	180
V3Z230.25	DN25 / R1"	6.9 (8.0)	1600	150



Diverter 3-way Valve
Normally-closed type
DN15 to DN25, PN16

Technical parameters

Performance parameters	Valve sizes	DN15 / R1/2", DN20 / R3/4", DN25 / R1"
	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 Power off → spring return closes valve)
	Running time	Opening time ≤ 18 s Closing time ≤ 7 s

2026 V1 | Information is subject to change without prior notice

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.

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.

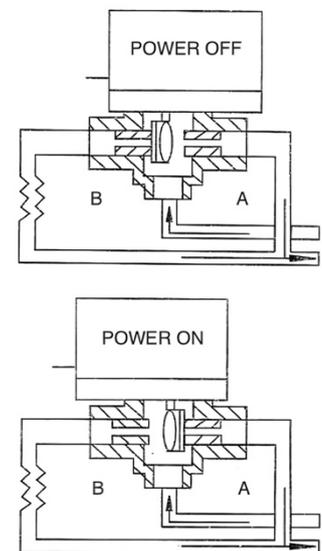
Equipment installation

- 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

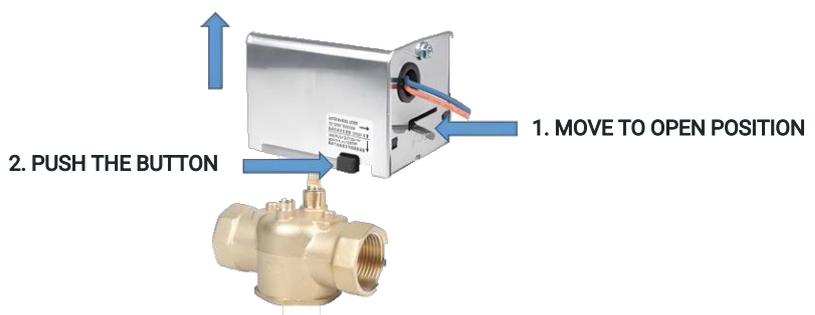
The valve must not be installed:

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

The three-way valve is a diverter valve, the medium inlet is at the bottom of the valve (this end is not marked), the B side is the normally closed end, connected to the main pipeline, and the A side is the normally open end, connected to the bypass pipe, as shown in the figure on the right



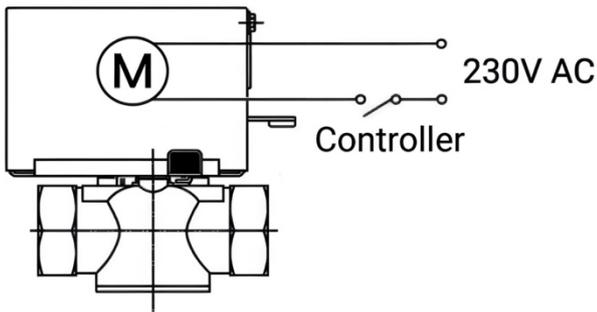
3. LIFT THE ACTUATOR



Electrical wiring / Safety precautions

Electrical wiring

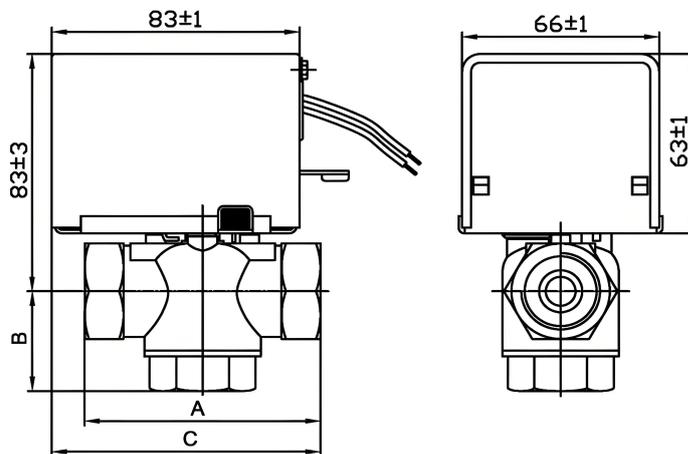
- The actuator electrical connection must comply with local regulations.



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 (Hp) [m³/h]	A [mm]	B [mm]	C [mm]	Connection
	DN	RP					
V3Z230.15	15	1/2"	2.6(3.0)	70	33	86	Threaded
V3Z230.20	20	3/4"	3.4(4.0)	79	34	90	Threaded
V3Z230.25	25	1"	6.9(8.0)	88	42	95	Threaded