Use with AI

Neo smart water valve



Device identification

Device type: **Smart water valve**

Device model: **NAS-WV02W**

Main features

- Drinking-water certified brass valve (NSF).
- Ultrasonic measurement system - non-mechanical sensors detect flow rate, pressure, and temperature with high precision and no moving parts.
- Real-time monitoring & consumption tracking - view live flow rate, water temperature, pressure, and total water consumption directly in the Shelly Smart Control app.
- Fast Open/Close operation for responsive shut-off and water supply control.
- Reliable & precise measurement - temperature accuracy ± 0.5 °C, pressure acc
  flow-volume precision ± 0.1 gal (0.38 l).
- Wi-Fi and Bluetooth connectivity - No hub required.
- Local web interface for direct device access.
- Standard G 1-1/4 BSPP thread with DN25 (G1 R) adapter included in the packa

Connectivity

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Accept all

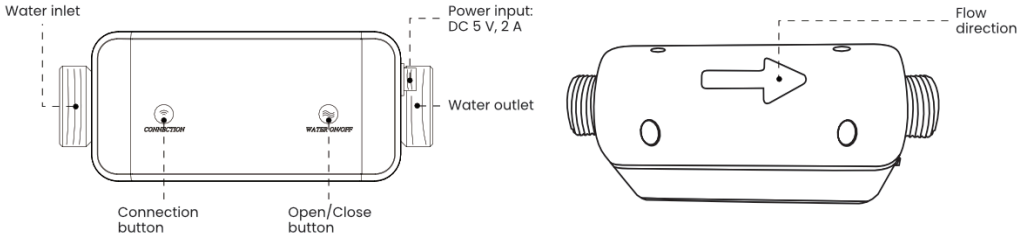
Necessary only

Manage preferences

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- Wi-Fi
- Bluetooth

User interface



Manual control

Action	How to
Open the valve	Press the Water on/off button. The indicator light turns green.
Close the valve	Press the Water on/off button. The indicator light turns red.
AP and Bluetooth reactivation	Press and hold the Connection button until the indicator light start to flash slowly. This operation reactivates AP and Bluetooth connection. After the device is re-connected, the indicator light becomes permanent.

LED indicators' signals

Device state	Indicator status
Awaiting connection	The Connection button’s light flashes once every 2 seconds
Connected	The Connection button’s light is steady
Opened	Water ON/OFF indicator’s light is green
Closed	Water ON/OFF indicator’s light is red
Network reset	Press and hold the Connection button until the indicator light start flashing

Specifications

Parameter	Value
Power supply	DC 5V / 2 A
Maximum working current	800 mA

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Standby power consumption	0.3 W
Valve on/off time	12 seconds
Valve diameter	DN25 / 1 inch pipe
Water temperature detection range	−10°C to 65°C (14°F ~ 149°F)
Water temperature detection accuracy	±0.5°C (±0.9°F)
Water pressure range	0 ~ 200 psi (0 ~ 1378.95 KPa)
Water pressure detection accuracy	±1 kPa
Accuracy of water flow detection	0.1gal (0.38l)
Wireless frequency	2.41 to 2.48 GHz / 5.18 to 5.85 GHz
Wireless standard	IEEE802.11 a/b/g/n, IEEE802.11 a/11n/11ac
Bluetooth version	Bluetooth 5.0
Working temperature	1°C to 65°C (34°F to 149°F)
Working humidity	1% to 95% RH
Thread type	G1-1/4 BSPP thread; DN25 G1 R adapter included in the packaging
Ingress protection	IPX7
Size (L x W x H)	195 × 78 × 102 mm / 7.7 × 3.1 × 4 in

Shelly Smart Control app

Adding the device to shelly Smart Control

Shelly Web user interface

Accessing local web interface

Compliance

NEO smart water valve multilingual EU declaration of conformity.pdf

Printed user guide

User guide Neo water valve EN DE.pdf

Installation guide

1. Wrap the connector with sealing tape.

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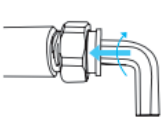
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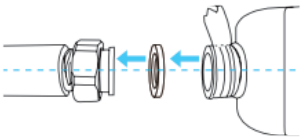
2. Attach the connector to the main water supply line.



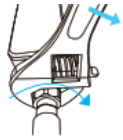
3. Tighten the connector with the hex keys.
4. Wrap water valve copper pipe with sealing tape.



5. Put the spacer into the connector, and then dock the water valve copper pipe.
6. Tighten the adapter nuts with the wrench.
7. Repeat the steps for the other valve's end.

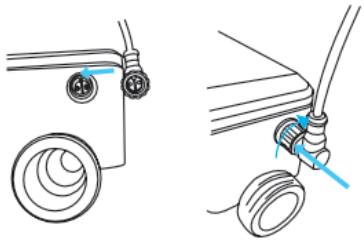


Connecting the power supply



1. Check the power supply interface slot.
2. Align at the interface and press tightly.
3. Tighten the nut by rotating it clockwise.

Frequently asked questions



Q: Why does the water valve show a pressure reading of 1 bar even when nothing is connected and no water pressure is applied?

A: Without consumption, the displayed value is the absolute pressure, not the gauge (water) pressure. To find the actual water pressure, subtract the atmospheric pressure from the reading. Since it varies with altitude, use the value that corresponds to your local area.

Q: Can the valve be powered by an alternative power supply?

A: Yes. The device may be connected to a **DC 5V, 2A** power bank.

Q: Why does the valve's reading reset to zero?

A: At very low consumption levels, when the flow doesn't reach a certain threshold during the measurement interval, it won't register as a change in the reading, and the indication resets to zero.

Q: Is the valve suitable for use with hot water?

A: No, this valve is designed for cold water use only. Higher temperatures may cause inaccurate measurements.

Disposal and recycling

Do not dispose of the product in household waste. Recycle the product to prevent er damage and to promote resource conservation. Dispose of the product at an approp point at your own responsibility.

Resellers, from which the Device was purchased, are required to accept Waste Electr Equipment (WEEE) free of charge for proper disposal.

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Some electronic products may store personal data. The user is responsible for deleting this data before disposing of the Device. For deletion, reset the device to its factory settings.

Manufacturer

NEO Smart Technology (GuangDong) Co. LTD

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E-mail: support@szneo.com

Importer

Shelly Europe Ltd.

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Email: support@shelly.cloud

Website: https://www.shelly.com

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