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Sinopé VA4220WF

Sinopé Sedna Smart Water Valve VA4220WF User Manual

MODEL: VA4220WF

Introduction

The Sinopé Sedna Smart Water Valve VA4220WF is a Wi-Fi enabled device designed to provide comprehensive water damage protection for your home. It allows for remote control of your main water inlet and can automatically shut off the water supply upon detection of a leak when paired with compatible leak detectors. This manual provides detailed instructions for the installation, operation, and maintenance of your Sedna Smart Water Valve and its associated components.

Product Overview

The Sedna Smart Water Valve system offers advanced features for water management and leak prevention:

- **Remote Control:** Manage your main water supply from anywhere using your smartphone or tablet.
- **Automatic Shut-off:** Integrates with Sinopé smart water leak detectors to automatically close the valve when a leak is detected, preventing extensive water damage.
- **Durable Construction:** Features a stainless steel valve body and a fiberglass-reinforced controller for enhanced durability and resistance.
- **Self-Testing System:** Equipped with a self-testing mechanism to ensure continuous, seamless operation.
- **Broad Compatibility:** Works with popular smart home platforms including Amazon Alexa, Google Home, and SmartThings, and is managed via the Neviweb app.

Components

1. Sedna Smart Water Valve (VA4220WF)



The main smart water valve unit, shown installed on a white water pipe. This valve controls the main water supply.

This is the central component of the water damage prevention system. It is installed on your main water line and can be opened or closed manually via its physical buttons or remotely through the Neviweb app or integrated smart home platforms. The valve features a stainless steel body and a robust fiberglass-reinforced controller.

- **Valve Diameter:** 3/4" NPT x 3/4" NPT
- **Pressure Rating:** PN16
- **Nominal Diameter:** DN25
- **Physical Controls:** 'Open' and 'Close' buttons on the controller.



Bottom view of the valve controller, displaying regulatory information such as FCC ID and IC numbers.

2. Sedna Water Leak Detector with Perimeter Cable (WL4200S V.2)



Packaging for the Sedna Water Leak Detector, highlighting its perimeter cable feature.

This Zigbee 3.0 compatible leak detector is designed for indoor use and comes with a perimeter cable to extend its detection area. It operates on 2 AAA Lithium batteries, providing a battery life of at least 4 years.

- **Connectivity:** Zigbee 3.0
- **Power:** 2 AAA Lithium batteries (included), 4+ years battery life.
- **Perimeter Cable:** 2.2 meters (7 feet) long, extendable for up to 14 feet of coverage.
- **Mounting:** Includes mounting stickers and hardware for flexible placement.



The perimeter cable of the leak detector installed along the floor, secured with mounting clips, near a potential water source like a sump pump.

3. Sinopé Flow Sensor (FS4220/FS4221)



Packaging for the Sinopé Flow Sensor, indicating its use in a smart water damage protection system.

The flow sensor monitors water consumption and can detect unusual flow patterns that may indicate a leak. It is designed to be integrated into your plumbing system near the main water valve.

- **Material:** SUS304 Stainless Steel
- **Pressure Rating:** Up to 1.75 MPa (244 PSI)
- **Flow Range:** 4-45 Liters per minute
- **Water Temperature:** Up to 60°C (140°F)

4. Other Leak Detectors

The system may include additional floor-type leak detectors that sense water directly through contact points on their base. These are ideal for placement directly on floors in areas susceptible to leaks.

Setup & Installation

1. Smart Water Valve Installation

Installation of the Sedna Smart Water Valve on your main water line requires plumbing work. It is recommended to have a qualified plumber perform this installation to ensure proper function and prevent leaks. The valve uses threaded connections for integration into your existing plumbing.



The Sinopé Sedna Smart Water Valve installed on a copper water pipe, demonstrating a typical installation scenario.

2. Leak Detector Placement

Place leak detectors in strategic locations where water leaks are most likely to occur. Common areas include:

- Near water heaters
- Under sinks (kitchen, bathroom)
- Behind toilets
- Near washing machines or dishwashers
- In basements or utility rooms, especially near sump pumps

For leak detectors with a perimeter cable, extend the cable along the floor or around appliances to maximize coverage. Use the provided mounting stickers or screws to secure the main detector unit and the cable as needed.

3. Flow Sensor Installation

The flow sensor should be installed in the main water line, ideally close to the smart water valve. This also requires plumbing work due to its threaded connections. Ensure the flow direction arrow on the sensor aligns with the water flow in your pipes.

4. Powering the Valve

Connect the provided AC power adapter to the smart water valve and plug it into a standard electrical outlet. The valve controller base is reinforced with fiberglass for durability.

5. App Setup and Pairing

Download the Neviweb app from the App Store or Google Play. Follow the in-app instructions to create an account and

pair your Sedna Smart Water Valve and all associated leak detectors and flow sensors. Ensure your Wi-Fi network is operating on 2.4 GHz (B/G/N) for optimal connectivity.



A smartphone screen showing a notification from the Sinopé system, indicating a water leak detected and the valve being closed.

Operating Instructions

1. Manual Valve Operation

To manually open or close the water valve, press the 'Open' or 'Close' buttons located on the valve's controller unit. The valve will smoothly actuate to the desired position.

2. Remote Valve Operation

Use the Neviweb app on your smartphone or tablet to remotely open or close the valve. This allows for convenient control of your water supply from any location with internet access.

3. Automatic Shut-off (Leak Detection)

When a paired Sinopé smart water leak detector senses water, it will send a signal to the Sedna Smart Water Valve. The valve will then automatically close the main water supply to prevent further damage. You will receive a notification on your smartphone via the Neviweb app.

4. Flow Monitoring

If a flow sensor is installed, you can monitor your water consumption and detect unusual flow patterns through the Neviweb app. This can help identify potential hidden leaks or excessive water usage.

Smart Home Integration

The Sinopé Sedna Smart Water Valve is compatible with several smart home ecosystems, allowing for integrated

control and automation:

- **Amazon Alexa:** Control the valve using voice commands.
- **Google Home:** Integrate with Google Assistant for voice control and routines.
- **SmartThings:** Connect for advanced automation and monitoring within the SmartThings ecosystem.
- **Apple HomeKit:** (Compatibility may vary, check Neviweb app for details).
- **Hubitat:** Direct Zigbee pairing may be possible for some components.

Refer to the Neviweb app's integration section for specific instructions on linking your Sedna devices with your preferred smart home platform.



A visual representation of the Sedna system's compatibility with various smart home platforms and voice assistants.

Maintenance

1. Battery Replacement (Leak Detectors)

The Sedna Water Leak Detectors use 2 AAA Lithium batteries, which typically last for over 4 years. The Neviweb app will notify you when battery levels are low. To replace batteries, carefully open the detector unit, replace the old batteries with new ones, and reassemble.

2. Self-Testing

The smart water valve is equipped with a self-testing system to ensure its mechanical components are functioning correctly. Regular self-tests help maintain optimal performance. Consult the Neviweb app for options to initiate or schedule self-tests.

3. Cleaning

Periodically clean the exterior of the valve and leak detectors with a soft, damp cloth. Ensure that the water sensing probes on the leak detectors are free from dust or debris to maintain accurate detection.

4. Firmware Updates

Ensure your devices are running the latest firmware for optimal performance and security. Firmware updates are typically managed through the Neviweb app. Follow the app's prompts to apply any available updates.

Troubleshooting

1. Valve Not Responding

1. Valve Not Responding

- Check if the valve is properly plugged into a power outlet.
- Verify your Wi-Fi connection and ensure the valve is within range of your router.
- Restart the valve by unplugging it for 10 seconds and plugging it back in.
- Check the Neviweb app for the device status and any error messages.

2. Leak Detector Not Sensing

- Ensure the leak detector's batteries are not depleted. Replace if necessary.
- Verify the sensing probes or perimeter cable are clean and making proper contact with the surface.
- Check the Neviweb app to confirm the leak detector is paired and online.
- Test the detector by placing its probes or cable in a small amount of water.

3. Connectivity Issues

- Confirm your Wi-Fi network is 2.4 GHz.
- Move the device closer to your Wi-Fi router or consider a Wi-Fi extender.
- If using a Zigbee hub, ensure the hub is online and the device is within its mesh network range.
- Attempt to re-pair the device through the Neviweb app.

Specifications

Feature	Specification
Model Number	VA4220WF
Material (Valve)	Stainless Steel
Controller Base	Reinforced with Fiberglass
Item Dimensions (L x W x H)	3.94 x 3.15 x 4.09 inches (10 x 8 x 10.4 cm)
Item Weight	0.8 Kilograms
Inlet/Outlet Connection Type	National Pipe Tapered (NPT)
Number of Ports	2
Valve Type	Globe Valve
Smart Home Compatibility	Amazon Alexa, Google Home, SmartThings, Neviweb App
Leak Detector Battery Life	4+ years (2 AAA Lithium batteries)
Leak Detector Cable Length	2.2 meters (7 feet), extendable to 14 feet
Flow Sensor Pressure Rating	1.75 MPa (244 PSI)
Flow Sensor Flow Range	4-45 Liters/minute
Flow Sensor Water Temperature	Up to 60°C (140°F)
Certifications	CSA, RoHS

Warranty & Support

The Sinopé Sedna Smart Water Valve VA4220WF typically comes with a 3-year warranty. For detailed warranty information, product support, or technical assistance, please refer to the official Sinopé website or contact their customer service. Keep your proof of purchase for warranty claims.

Sinopé Technologies: www.sinope.ca

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