

Jinwoo SM-AZ713

Jinwoo Zigbee Smart Water Valve

Model: SM-AZ713

1. INTRODUCTION

Thank you for choosing the Jinwoo Zigbee Smart Water Valve. This device is designed to automate the control of water valves in various environments, including gardens, kitchens, farms, and swimming pools. It integrates seamlessly with Zigbee 3.0 hubs and offers convenient control via mobile applications and voice commands through popular smart home platforms.

Key Features:

- Requires a Zigbee 3.0 hub (e.g., Tuya Gateway, Philips Gateway) for operation.
- Voice control compatibility with Amazon Alexa and Google Home.
- Remote control via Smart Life/Tuya app from anywhere.
- Programmable timing functions for automated valve operation.
- Manual clutch pull ring for operation during power outages.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before installing and operating this device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the power supply is disconnected before installation or maintenance.
- The device operates on 240 volts. Handle with care.
- This device requires a Zigbee hub to function. Ensure your hub is compatible and properly configured.
- Do not immerse the device in water or expose it to extreme temperatures.
- Keep out of reach of children.
- For outdoor installations, ensure the power adapter and connections are protected from weather elements.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Jinvoo Zigbee Smart Water Valve Controller
- Power Adapter
- Support Brackets (2x)
- Screws
- Stainless Steel Hose Clamp
- Instruction Manual (this document)



Figure 3.1: Jinvoo Zigbee Smart Water Valve and app interface.

4. SETUP AND INSTALLATION

Follow these steps to install and set up your Jinvoo Zigbee Smart Water Valve.

4.1 Physical Installation

1. **Identify Valve Type:** Ensure your existing water valve is a standard ball valve with a lever handle, as shown in the diagrams.
2. **Position the Controller:** Place the valve controller over the handle of your existing ball valve. The controller's output shaft should align with the valve handle.

3. **Secure the Brackets:** Use the provided support brackets and screws to firmly attach the controller to the water pipe. The stainless steel hose clamp can be used for additional stability around the pipe.
4. **Connect Power:** Plug the power adapter into the valve controller and then into a suitable 240V power outlet.



Figure 4.1: Valve controller installation diagram.

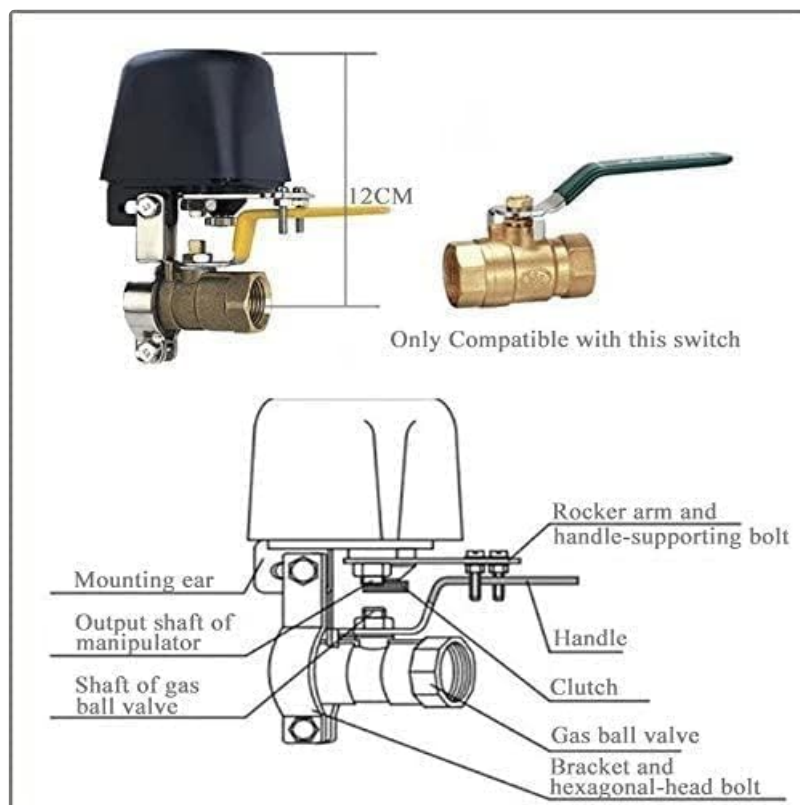


Figure 4.2: Valve controller dimensions and pipe specifications.

4.2 Pairing with Zigbee Hub

This device requires a Zigbee 3.0 compatible hub (e.g., Tuya Gateway, Philips Gateway) to connect to your smart home network.

1. **Ensure Hub is Ready:** Make sure your Zigbee hub is powered on and in pairing mode. Refer to your hub's instruction manual for details on enabling pairing mode.
2. **Enter Pairing Mode:** On the Jinvo Smart Water Valve controller, press and hold the power button (usually located on top) for approximately 3 seconds until the blue light starts flashing. This indicates the device is in pairing mode.
3. **Add Device in App:** Open your Smart Life or Tuya app. Select the option to add a new device. The app should automatically detect the valve controller.
4. **Confirm Connection:** Once detected, follow the on-screen prompts in the app to complete the pairing process. You may be asked to rename the device.

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Video 4.1: Demonstration of Jinvo Smart Valve pairing process with a smart home app.

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Video 4.2: Jinvo Smart Water Valve demonstration video, showing app control and physical operation.

5. OPERATING THE SMART WATER VALVE

Once installed and paired, you can control your Jinvo Smart Water Valve using various methods.

5.1 Remote Control via App

The Smart Life or Tuya app allows you to control the valve from anywhere with an internet connection. You can open or close the valve with a single tap and view its current status.



Figure 5.1: Remote control of the valve using the mobile application.

5.2 Voice Control

Integrate the valve with Amazon Alexa or Google Home for convenient voice commands.

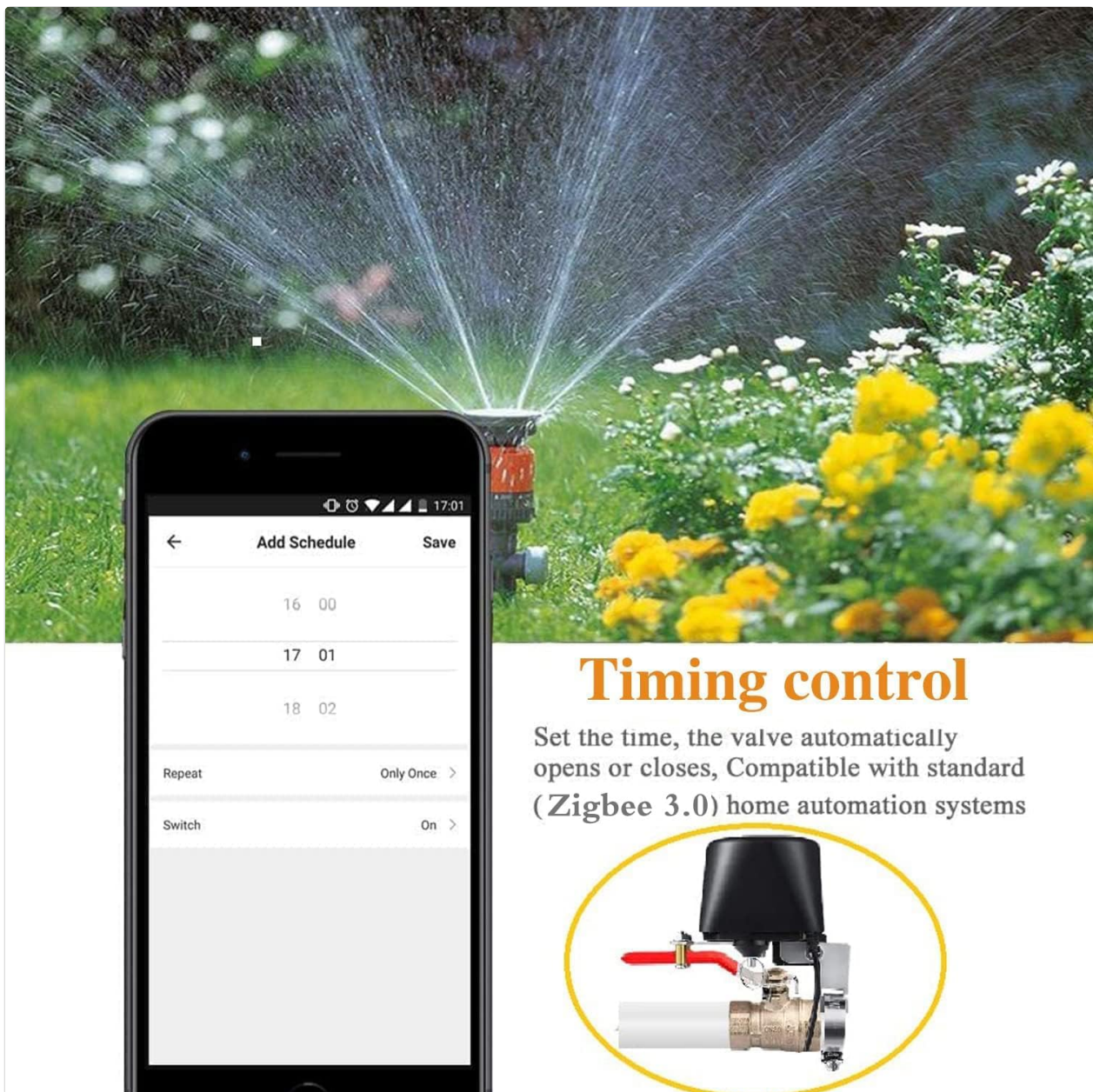
- **For Alexa:** Say, "Alexa, open the water valve" or "Alexa, close the water valve."
- **For Google Home:** Say, "Hey Google, turn on the water valve" or "Hey Google, turn off the water valve."



Figure 5.2: Voice control integration with smart assistants.

5.3 Timing Function

Set schedules for automatic opening and closing of the valve through the app. This feature is ideal for irrigation systems or managing water usage.



The image shows a smartphone in the foreground displaying an app interface for scheduling a valve. The app has a title bar with a back arrow, "Add Schedule", and a "Save" button. Below this, there are three rows for scheduling, each with a time field and a "Repeat" field. The first row shows "16 00" and "Only Once >". The second row shows "17 01" and "Only Once >". The third row shows "18 02" and "Only Once >". Below these rows, there is a "Switch" field with "On >". The background of the image is a garden with a sprinkler system watering a lawn with yellow and white flowers.

Timing control

Set the time, the valve automatically opens or closes, Compatible with standard (Zigbee 3.0) home automation systems




Figure 5.3: Setting up timing schedules for the valve.

5.4 Manual Override

In case of a power outage or if you prefer manual control, the device features a manual clutch pull ring at the bottom. Simply pull the ring to disengage the motor and manually move the valve handle to open or close it.

Pipe specifications

Nominal diameter	inch	Outer diameter	Approximate inner diameter
mm	"	mm	mm
15	4 points	21.25	15
20	6 points	26.75	20
25	1 inch	33.5	25
32	1.2 inch	42.25	32



Pull ring clutch, manual valve control

During power failure, manually control valve closing/opening

Figure 5.4: Manual clutch pull ring for emergency operation.

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Video 5.1: Operation demonstration video of the intelligent water valve, showing automated and manual control.

6. MAINTENANCE

To ensure optimal performance and longevity of your Jinvo Zigbee Smart Water Valve, follow these maintenance guidelines:

- **Regular Cleaning:** Wipe the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Check Connections:** Periodically inspect the power cable and the physical attachment to the valve and pipe to ensure they are secure.
- **Environmental Conditions:** Ensure the device is not exposed to conditions outside its specified operating temperature range (up to 70 degrees Celsius).
- **Software Updates:** Keep your Smart Life/Tuya app and Zigbee hub firmware updated to ensure compatibility and access to the latest features and security enhancements.

7. TROUBLESHOOTING

If you encounter issues with your Jinwoo Zigbee Smart Water Valve, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device won't pair or connect to Zigbee hub.	Device not in pairing mode; Hub not in pairing mode; Device too far from hub/repeater; Interference.	Ensure device blue light is flashing (press and hold power button). Put Zigbee hub into pairing mode. Move device closer to the hub or a Zigbee repeater. Reduce potential wireless interference.
Valve does not open/close fully.	Improper installation; Valve handle resistance; Power issue.	Check physical installation, ensure the controller is securely mounted and aligned with the valve handle. Manually operate the valve to check for excessive resistance. Ensure stable power supply.
Remote control via app is unresponsive.	No internet connection; Device offline; App issue.	Check your home internet connection. Verify the device status in the Smart Life/Tuya app. Restart the app or your smartphone.
Voice commands not working.	Incorrect voice command; Integration issue with Alexa/Google Home.	Use precise voice commands as listed in section 5.2. Re-link the Jinwoo skill/service in your Alexa or Google Home app.

8. SPECIFICATIONS

Feature	Detail
Brand	Jinwoo
Model Number	SM-AZ713
Manufacturer	UseeLink
Product Dimensions	3.7 x 2.8 x 3.1 inches
Item Weight	1.21 pounds
Voltage	240 Volts
Operating Temperature	Up to 70 Degrees Celsius
Charging Port Type	5.5x2.1mm DC Barrel Jack
Batteries Included?	No
Batteries Required?	No
Connectivity	Zigbee (requires Zigbee Hub)

9. WARRANTY AND SUPPORT

The Jinwoo Zigbee Smart Water Valve comes with a **one-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use conditions.

For any questions, technical support, or warranty claims regarding your Zigbee smart water valve, please contact Jinwoo customer service. We are committed to providing timely assistance and will reply within 24 hours.

Contact Information: Please refer to the contact details provided on the product packaging or the official Jinwoo website.