

1、 Overview

CZC20S The series intelligent electric ball valve is widely used in the Internet of Things and smart home systems. It can be powered by its own backup battery (usually 3-6 months), and can also use DC5V, AC/DC6-24V, AC85-265V power input, and DC motor chip drive. Equipped with a multifunctional button, the device can be turned on and off when lightly touched, making it convenient for on-site operation. Press and hold the "button" for more than 5 seconds to configure the network or clear the original network information, and restore factory settings.

2、 Product Technical Parameters

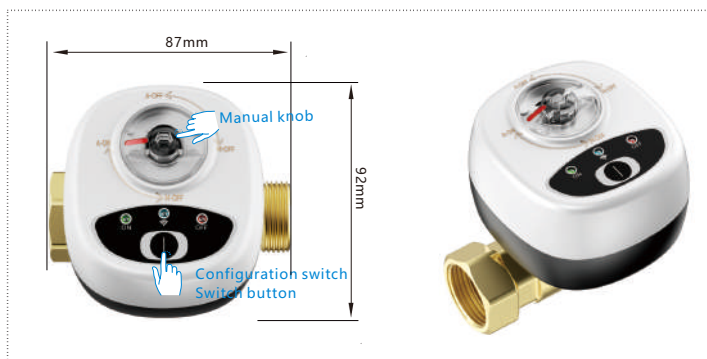
Input Voltage/Current: DC5V, AC/DC6-24V, AC85-265V, $\leq 0.5A$

Wireless Standards: Zigbee3.0

Working environment: $-20^{\circ}C$ to $50^{\circ}C$, humidity $\leq 80\%$

Case material: flame-retardant PC or ABS

3、 Product Appearance Dimensional Drawing (Taking DN20 as an example)



4、 Product Model Description

Preparation description: The overall preparation is divided into six sections, with the first three sections indicating the actuator parameters and the last three sections indicating the valve body parameters. These parameters are set at the factory. The model number, factory SN, and other relevant parameters are pasted on the outside of the packaging box.

CZC20S. ☐ ☐ ☐ ☐ ☐ ☐

- Valve connection mode: F indicates internal thread, M indicates external thread, R indicates PPR, H indicates union, and K indicates quick connector
- Valve material: T indicates brass, DT indicates lead-free copper, P indicates stainless steel, B indicates nylon
- Valve diameter: DN15, DN20, DN25, DN32, DN40, DN50
- Network Type: W indicates WiFi
- Voltage type: AC, DC, AD indicates AC/DC universal type
- Rated working voltage: 220V for 85-265V, 24V for 6-24V, 5V for 5V

5、 Please check the following items before using the device (here taking Zigbee control as an example)

Your smartphone or tablet is already connected to the gateway of a Zigbee device, otherwise the device cannot be added.

When using an Android phone or tablet, the system must be version 4.0 or above, and when using an Apple or iPad, it must be able to access and download the app store.

This product can be directly connected to mainstream Zigbee 3.0 platforms at home and abroad, such as EasyLink, Philips, Amazon, Samsung, IKEA, etc.

6、Software download and connection

Search for "Yiweilian" in major "application markets" or scan the QR code below to download and install the app.

1 Download APP



If there are any permission requests during the installation process, please allow them according to the selection requirements. After the installation is completed, please register a "Yiweilian" account and log in. After logging in, please ensure that the Zigbee gateway has been installed in your app.

2 Power on

After powering on, when the device is used for the first time, it defaults to Quick Mode (Touch), and the Zigbee indicator light shows two short and one long flashing states

- ⓘ If there is no distribution network within three minutes, the device will exit fast mode. If you need to press and hold the switch button for more than 5 seconds again until the Zigbee indicator light shows two short flashes and one long flash.

3 Add Device

(1). Before adding, please confirm that GPS positioning has been turned on, open the APP gateway as indicated in the left picture, click "Add" as shown in the right picture, and the system will automatically search for Zigbee devices.

(2). After finding the Zigbee device, click on the device and the system will automatically add sub devices.

(3). After adding, select the room and name the equipment, (Speech recognition name) completed adding, when Zigbee refers to the indicator light remains on, remote control can be carried out

(4). On the homepage interface of the APP, click on the APP switch diagram with a single click. The device can be powered on and off by labeling, and if manually controlled Off, the app will also display the current on and off status of the device in real-time



7. List of commonly used functions of APP

The CZC20S series electric ball valve actuator is widely used in the Internet of Things and smart home systems, and is commonly used for controlling tap water in homes (not recommended for gas control), agricultural plant irrigation, animal timed feeding, and various other scenarios. Through the app settings, it can also be shared with your family for control, multi scene linkage, and more.

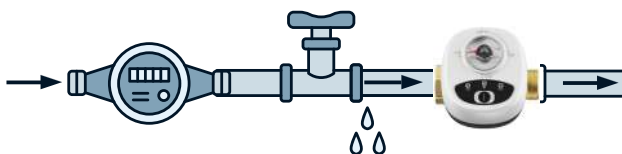
The CZC20S.. series intelligent valve actuator can be combined with any brand of water immersion guardsensor on the YiWeiLian platform to form a leak-closing intelligent valve actuator for more scenarios, whichcan prevent property damage caused by water leakage in the home. Generally, we recommend placing morewater immersion guard sensors in commonly used areas such as the kitchen, bathroom, laundry room, andlower parts of water heating equipment.



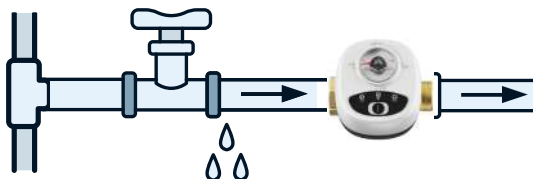
When the Water Leakage Guardian sensor detects water leakage at the designated location, it immediatelysends an alarm signal and pushes the alarm information. At the same time, it also closes the CZC20S... seriesintelligent valve actuator. The Water Leakage Guardian sensor's leakage information will be pushed to themobile phone, which can prevent unnecessary losses of property in the home due to water leakage.9. More function settings of APP

8、 Installation Instructions for Smart Valves

When using the CZC20S... series smart valve as the main tap water valve, it is recommended to install it after the meter valve. For ease of maintenance, a manual valve must be installed in front of the smart valve.

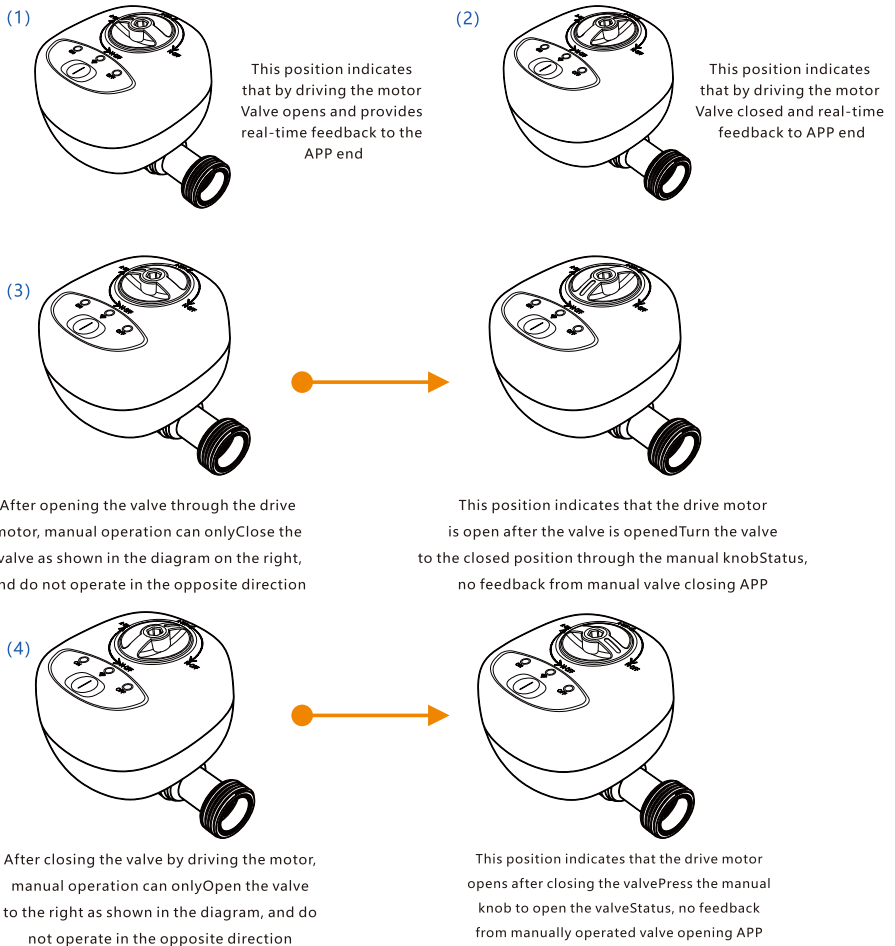


The CZC20S... series of intelligent valves should be installed in kitchen and bathroom settings, and for agricultural irrigation, they should be positioned on the branch pipe. When installing on the branch pipe, it is recommended to also install a manual valve at the front end for greater stability.



9. Instructions for manually assisting in opening and closing valves

This valve can be opened and closed manually without the need for power supply. The driving motor adopts dual "90 degree" patented technology, and the manual opening and closing of the valve can be directly operated by rotating the knob. At the same time, the opening and closing positions of the driving motor are clearly displayed. The following figure provides a brief description of the four positions and operating precautions for manual valve opening, manual valve closing, drive motor valve opening, and drive motor valve closing:



Special declaration

When driving the motor to open or close the valve, the first 90 degrees are the buffer section, and the valve cannot be opened or closed immediately. If used in specific places (such as gas pipes that need to be quickly cut off), it is necessary to use the motor immediately to open or close the valve with caution. Any liability accidents or legal consequences caused by improper use are not related to our company. We hereby declare that.