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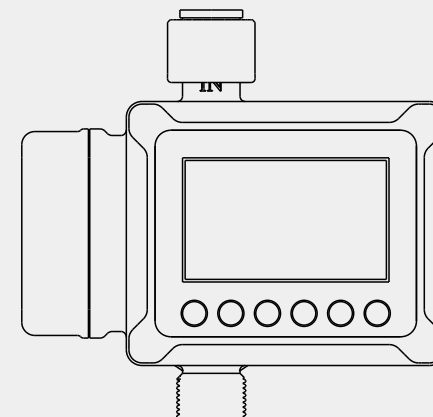
Rev.A.2404



Patent Number: ZL02220153.X,

Ceramic Hard Sealing Timing Intelligent Irrigation Valve

Model: RJ-ZG06



User Manual



Please read this manual in detail
before using the valve and keep it properly
in order to consult in the future.

0WRX.466.801

Notice:

- This product is only for outdoor installation and use. Do not install it indoor, and do not install it horizontally or upside down (otherwise the rain sensing function will fail).
 - When the battery icon only one grid left and the outer frame flashes, the system will automatically shut down, and all buttons will be invalid. After replacing the battery, the buttons and display will return to normal, and all programs will return to the factory default settings. It is necessary to reset the program.
 - Only use 1.5V No. 5 (AA) alkaline battery, do not mix with standard (carbon zinc) or rechargeable (nickel chromium) battery. Please ensure that the battery compartment is dry, as water on the battery may cause the control valve to malfunction.
 - When the control valve is not use for a long time, please remove the battery to avoid liquid leakage and damage control valve.
 - Used or depleted battery must be removed from the battery compartment and handle correctly according to local laws and regulations.
 - At the end of the product life cycle, the waste of the components inside should be sorted and properly disposed of according to local laws and regulations.
 - The filter net at the water inlet can intercept dirt and prevent nozzle blockage. Please clean the filter net regularly and replace it if there is wear.
 - The water pressure of the control valve is 0.15MPa-1.0MPa, and the product itself does not generate pressure, but uses the water source with pressure. When the water pressure is insufficient, using a pressurized water source can ensure that the water flow from the control valve is normal.
 - Please use this product under the water temperature between 5~50℃.
 - Do not put the valve in the high humidity, and corrosive environment.
 - Liquids such as alcohol and diluents have a corrosive effect on the control valve. Therefore, please wipe with a small amount of water when cleaning.
 - Do not disassemble the control valve or attempt to change the internal structure.
 - Please turn on the faucet after setting the watering program for the control valve.
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- Runxin shall not be liable for any losses caused by the violation of the above matters.

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1. Product Overview

1.1. Main Application & Applicability

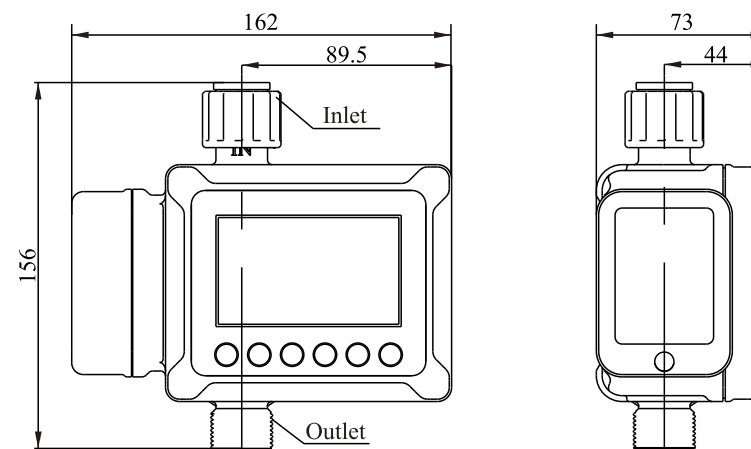
This product is an automatic water-saving irrigation control valve developed by Wenzhou Runxin Manufacturing Machine Co., Ltd., based on independent ceramic hard sealing technology. It has the function of timed automatic irrigation. Combined with pipelines and sprayers, it can be widely used in courtyards, gardens, balconies, vegetable gardens and other occasions that require timed irrigation.

1.2. Product Characteristics

- Ceramic hermetic head faces, reliable sealing, good wear resistance, good impurities resistance and durability;
- It can set two sets of timed irrigation programs;
- Rain sensing;
- Weather resistance design, protection rating is IP67;
- Manual irrigation;
- 4 pcs of No. 5 mercury free alkaline batteries, normal use, usable for more than 1 year.

1.3. Product Structure and Technical Parameters

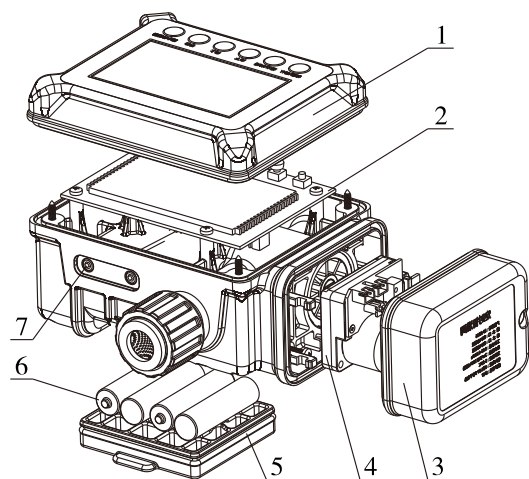
●Product Size



Model	Connector Size	
	Inlet	Outlet
RJ-ZG06	G3/4"F	G3/4"M

F—Female M—Male

●Product Structure Composition



Item No	Description	Item No	Description
1	Dust Cover for the Control Board	5	Battery Cover
2	Control Board	6	1.5V, No.5 Alkaline Battery
3	Dust Cover for the Motor	7	Rain Sensor
4	Motor		

●Technical Parameters

Model	RJ-ZG06	Water pressure	0.15MPa-1.0MPa
Water temperature	5℃-50℃	Protection Rating	IP67
Electrical facility	4 pcs of 1.5V, 5 (AA) No. 5 alkaline battery (Can be used for more than one year normally)		
Irrigation duration	Irrigation duration can be set to 1-59 seconds or 1-99 minutes		
Interval time	Interval time can be set to 1-23 hours or 1-15 days		

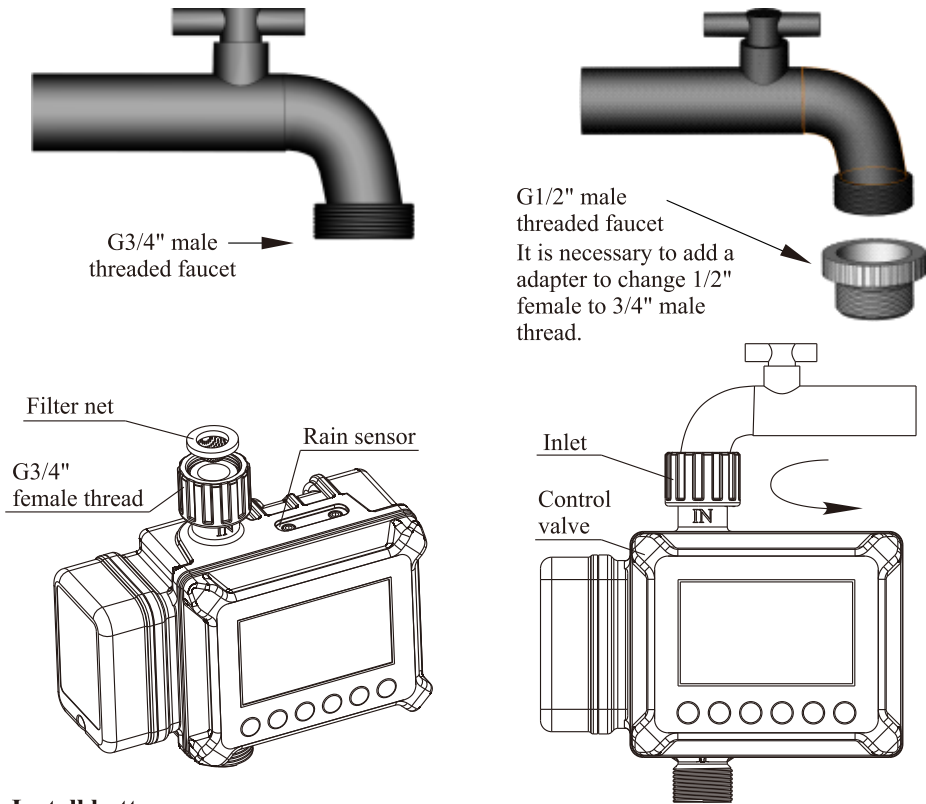
2. Product Installation and Usage

2.1. Product Installation

Before installation, read all those instructions carefully. Then prepare all materials and tools needed for installation to ensure the product can operate normally.

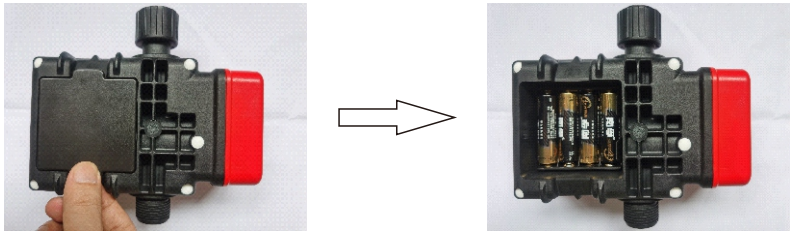
A. Install control valve

Install a filter net at the inlet of the control valve during installation, then fix it on the faucet, and fix the pipe on the outlet. When rotating, please tighten it in the direction of the thread (you can tighten it by hand without tools).



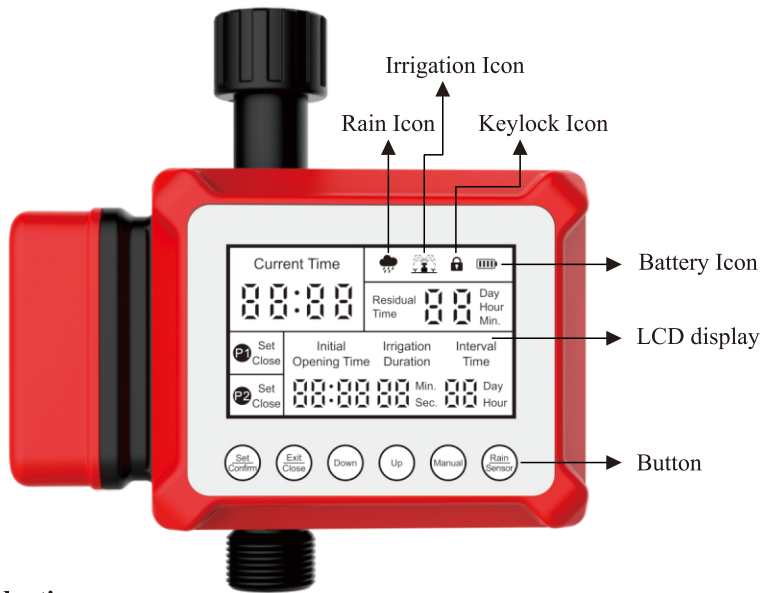
B. Install battery

- 1) Remove the battery cover from the back of the control valve.
- 2) Place 4 new 1.5V No.5 (AA) alkaline batteries according to the "+/-" mark.
- 3) Reinstall the battery cover back into the control valve and ensure it is securely and tightly installed.



2.2. Usage

A. Operation interface of control valve



a. Icon Introduction

1) Rain icon "☁️"

When the rain sensing function is turned on, the icon is light on. If rain is detected, the five dots below the icon will flash.

When the rain sensing function is turned off, the icon does not display.

2) Irrigation icon "💧"

When the system is in the irrigation state, the lower part of the icon is always light on, and the upper part flashes.

When the system does not irrigate, the "💧" icon disappears.

3) Keylock icon "🔒"

When the "🔒" icon is light on, all operations are invalid. When the screen is on, press "⬇️" and "⬆️" at same time for 3 seconds to unlock, when the "🔒" icon disappear, you can perform corresponding operation. If there is no operation within one minute, it will return to the locked state and the screen closed.

4) Battery Icon "🔋"

The battery icon remains displayed, with internal black stripes indicating the amount of battery power. When the battery icon only has one grid left and flashes, the system will automatically shut down, and all buttons will be invalid. After replacing the battery, the buttons and display will return to normal, and all programs will return to the factory default settings.

b. Button Introduction

1) "Set Confirm" Button

Set: In the unlocked state, press "Set Confirm" once to enter the parameter setting interface.

Confirm: In the setting state, press "Set Confirm" once to save the current setting parameters and proceed to the next step.

2) "Exit Close" Button

Exit: Press "Exit Close" once to return to the main screen from any setup process.

OFF: In the unlocked state, press "Exit Close" for 3 seconds, the product enters the "OFF" interface, not execute any irrigation procedures, then press "Exit Close" for 3 seconds again, release the "OFF" state and execute the set irrigation program.

3) "Down" Button: In the setting state, press the down button to select the setting item and decrease the setting parameters.

4) "Up" Button: In the setting state, press the up button to select the setting item and increase the setting parameters.

Press the "Up" and "Down" at same time for over 2 seconds to unlock and can perform corresponding operation.

5) "Manual" Button: In the unlocked state, press the manual button can enter the manual setting state of irrigation duration .

6) "Rain Sensor" Button: In the unlocked state, Press for 3 seconds to turn on or off the rain sensing function.

Notice: When you accidentally enter the settings interface but do not want to change the parameter, you can follow the following steps to exit:

Press "Exit Close" to return to main interface or press and hold "Set Confirm" until return to main interface. (Do not press "Up" button or "Down" button)

B. Steps of Parameter Setting

a. Current Time

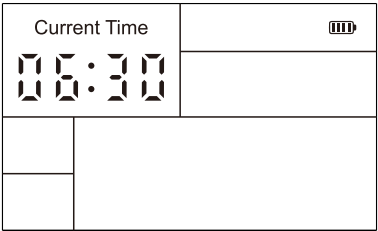


Figure 1

1) In the unlocked state, press the "Set Confirm" to enter the current time setting interface as shown in Figure 1. The hour data will flash (for example, the hour "06" will flash).

- 2) Press "Down" or "Up" to set hour value, press "Set Confirm" to save the hour value, then enter to minute value setting interface. The minute data will flash (for example, the minute "30" will flash).
- 3) Press "Down" or "Up" to set minute value, press "Set Confirm" to save the minute value, then enter to "P1" and "P2" timing program setting.

b. Timing Program

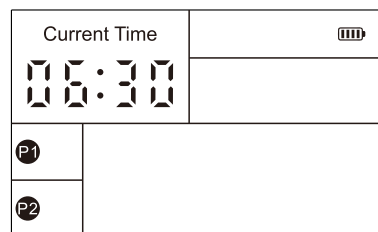


Figure 2

- 1) After the "Current Time" is completed, enter P1 and P2 program selection, as shown in Figure 2. When "P1" flashes, press the "Down" or "Up" to select the "P1" or "P2" program. The default is the "P1" program. Press the "Down", "P2" flashes, it indicates the selected "P2" program.
- 2) Press the "Set Confirm" in the "P1" program to enter the "Set/Close" function setting interface in the "P1" program. Press the "Down" or "Up" to select "Set" or "Close" the current timing program.

Notice: Set or close the "P1" and "P2" timing programs according to irrigation needs.

c. Timing Programs Setting

Taking P1 program setting as an example (P2 program setting method is the same)

Set the First Start Time:

Press "Set Confirm" to select the "Set" function of "P1" and enter the initial opening time setting interface as shown in Figure 3, the hour value flashes.

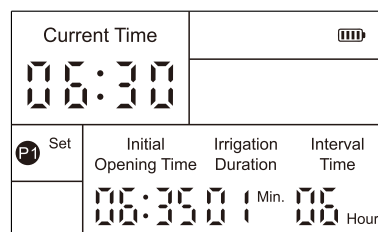


Figure 3

- 1) Press "Down" or "Up" to set the hour value for the initial opening time, press "Set Confirm" to save hour value, and then enter the minute value interface.
- 2) Press "Down" or "Up" to set the minute value, press "Set Confirm" to save minute value, and then enter the "Irrigation duration" interface. As shown in Figure 4, the irrigation duration flashes.

•Set Irrigation Duration:

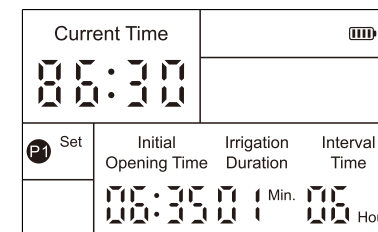


Figure 4

- 1) Press the "Down" or "Up" to set the required irrigation duration within the range of 1-59 seconds or 1-99 minutes.
- 2) Press "Set Confirm" to save the settings, then enter the "Interval time" interface. As shown in Figure 4, the irrigation duration flashes.

•Set Interval time:

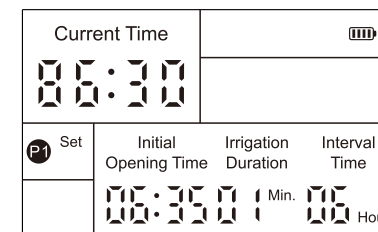


Figure 5

- 1) Press "Down" or "Up" to set the required interval time of 1—23 hours or 1—15 days.
- 2) Press "Set Confirm" to save the settings, at this point, the timed program has been set and the control valve will automatically return to the main interface.

d. Manual Irrigation

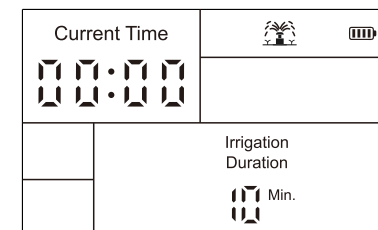


Figure 6

1) Enter the manual irrigation function:

● In the unlocked state, press "Manual" to enter the manual irrigation duration setting interface as shown in Figure 6.

● Press the "Down" or "Up" to set the required irrigation duration within the range of 1-59 seconds or 1-99 minutes.

● Press "Set Confirm" to save the settings, then the control valve starts irrigate, the "Current time" displays the cumulative duration of irrigation, "☔" upper part flashes, and the lower part light on.

2) Pause manual irrigation function:

● Press "Manual" again to stop irrigation, and the control valve returns to the main interface.

Notice: In manual irrigation mode, the rain sensing function is invalid.

When the manual irrigation time decreases to 0, the system will return to the timing program mode.

e. Rain Sensing

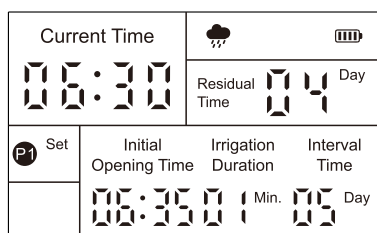


Figure 7

1) Press and hold "Rain Sensor" for 3 seconds, "☔" light up as shown in Figure 7, indicating that the rain sensor is on.

2) Press and hold "Rain Sensor" for 3 seconds, "☔" disappears, indicating that the rain sensor is off.

Notice: Rain sensor is valid by default.

In manual irrigation mode, the rain sensing function is invalid.

When the system detects rain in the timing irrigation mode, it will immediately stop irrigate and exit the irrigation time.

f. OFF Mode

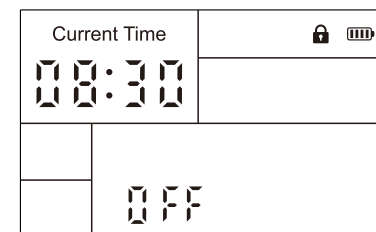


Figure 8

In the "OFF" mode, the control valve does not execute any irrigation program.

1) Method of turning on "OFF" Mode:

In the unlocked state, press and hold "Exit Close" for over 3 seconds, enter the off mode as shown in figure 8.

2) Method of turning off "OFF" mode:

Press and hold "Exit Close" for 3 seconds.

3. Trouble Shooting

3.1. After installing the battery, the display screen does not display anything.

Check:

- ▶ The 4 batteries installed are new AA 1.5V (No. 5) mercury-free alkaline batterie.
- ▶ The battery properly places according to the +/- markings.
- ▶ The LCD screen enter a sleep state.

3.2. No water flow out at the set time.

Check:

- ▶ The "Current Time" is correct.
- ▶ The start time of irrigation is set accurately.
- ▶ The rain sensor has water, please wipe it if necessary.
- ▶ The product is in "OFF" mode.
- ▶ Runs out of battery.
- ▶ The faucet has been turned off.
- ▶ The filter net is blocked by dirt such as sand, please remove or replace the filter net.

3.3. Water leakage at the inlet/outlet of the faucet.

Check:

- ▶ The sealing ring has been installed, and if necessary, use a suitable rubber ring or thread seal tape.
- ▶ Faucet connector, faucet outlet or pipe damaged.
- ▶ The thread of the faucet/pipe connector is same as product.

4.Warranty Card

Dear client:

This warranty card is the guarantee proof of our products. It is kept by client self. You could get the after-sales services from the supplier. Please keep it properly. It couldn't be retrieved if lost. It couldn't be repaired free of charge under the below conditions:

- 1. Guarantee period expired. (One year from the manufacturing date);
- 2. Damage resulting from using, maintenance, and keeping that are not in accordance with the instruction;
- 3. Damage resulting from repairing not by the appointed maintenance personnel;
- 4. Content in guarantee proof is unconfirmed with the label on the real good or be altered;
- 5. Damage resulting from force majeure.

Product Name	Ceramic Hard Sealing Timing Intelligent Irrigation Valve				
Model		Code of Valve Body			
Purchase Company Name		Tel/Cel.			
Problem					
Solution					
Date of Repairing		Maintenance Man Signature		Date of Accomplishment	