

## Smart Motorized Valve

YS5002-UC



Installation & User Guide

Revision Jan. 02, 2023

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## A Welcome!

Thank you for purchasing YoLink products! We appreciate you trusting YoLink for your smart home & automation needs. Your 100% satisfaction is our goal. If you experience any problems with your installation, with our products or if you have any questions that this manual does not answer, please contact us right away. See the Contact Us section for more info.

Thank you!

Eric Vanzo  
Customer Experience Manager

## B Before You Begin

Visit our Smart Motorized Valve support page on our website, for the latest installation guides, additional resources, information and videos by visiting:

[www.shop.yosmart.com/pages/smart-motorized-valve-product-support](http://www.shop.yosmart.com/pages/smart-motorized-valve-product-support)

Or by scanning the QR code:



Download the most current version of the user guide by scanning the QR code:



## NOTE:

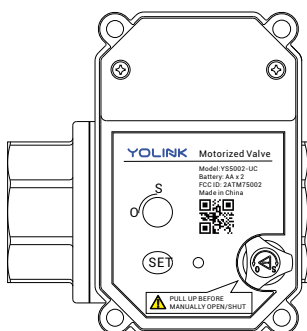
These instructions are not intended to be inclusive of all possible pipe and fitting types, nor are they intended to be comprehensive instructions for inexperienced installers. If you are not comfortable with an installation like this, please consult or hire a qualified plumber. Instructions in this guide are based on a new installation, on copper pipe, with push-fit threaded adapters. The Smart Motorized Valve can be installed on CPVC or PEX pipe using the appropriate male NPT thread to compression or push-fit copper, CPVC or PEX adapters. YoLink recommends SharkBite brand fittings. Visit [sharkbite.com](http://sharkbite.com) or find additional information on our Smart Motorized Valve Support page.

Local plumbing/building codes may require a standard non-electric or non-motorized valve for the main water shut-off - do not replace a non-electric shut-off valve with this motorized valve without first consulting with the applicable code authorities. If installing this valve to shut off the main water line, we suggest installing this adjacent to the (non-electric) shut-off valve.

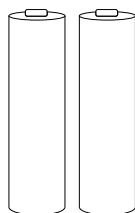
Please use care when working with cutting and other tools than can cause bodily harm if not used properly!

## C

## In the Box



Smart Motorized Valve

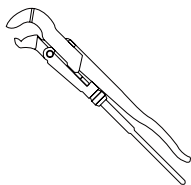


Batteries (Installed)

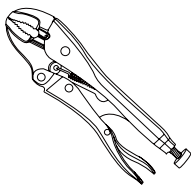
## D

## Required Items

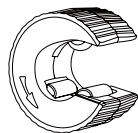
These tools or items may be required:



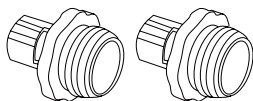
Pipe Wrench



Locking Pliers



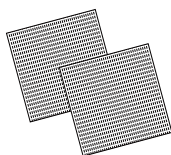
Copper Pipe  
Cutting Tool



Pipe Fittings  
/Adapters



Thread Seal Tape

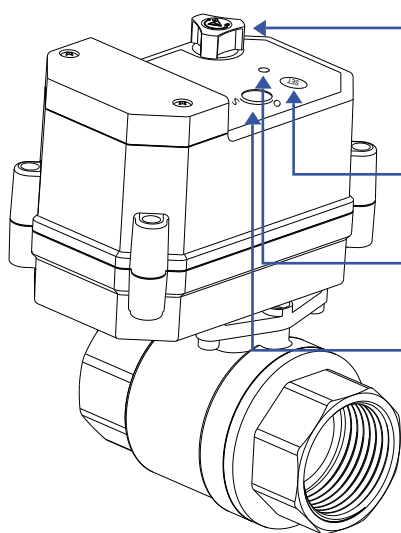


Sandpaper

## E

# Get to Know Your Smart Motorized Valve

The YoLink Smart Motorized Valve is a motorized valve with an integrated YoLink valve controller. To get to know your new Smart Motorized Valve, refer to the illustrations below.



## Manual Control Knob

Lift, then turn either clockwise to shut the valve or counterclockwise to open the valve

## SET Button

Multifunction button

## LED Indicator

See "LED Behaviors" below

## Valve Position Indicator

Window indicates the current position of the valve. "O" indicates open, "S" indicates shut.

## LED Behaviors



**Blinking Red Once, Then Green Once**  
Device start-up



**Blinking Red And Green Alternately**  
Restoring to factory defaults



**Blinking Red Once**  
Valve closing



**Quick Blinking Red Twice**  
Valve is closed



**Blinking Green Once**  
Valve opening



**Quick Blinking Green Twice**  
Valve is open



**Slow Blinking Green Twice**  
Connecting to hub



**Quick Blinking Green**  
Control-D2D Pairing in Progress



**Quick Blinking Red**  
Control-D2D Unpairing in Progress



**Slow Blinking Green**  
Updating



**Fast Blinking Red Every 30 Seconds**  
Low battery, replace batteries soon

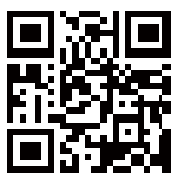
## F Install the App

If you are new to YoLink, please install the app on your phone or tablet, if you have not already. Otherwise, please proceed to the next section.

Scan the appropriate QR code below or find the “YoLink app” on the appropriate app store.



Apple phone/tablet  
iOS 9.0 or higher



Android phone/tablet  
4.4 or higher

Open the app and tap **Sign up for an account**. You will be required to provide a username and a password. Follow the instructions, to set up a new account. Allow notifications, when prompted.

You will immediately receive a welcome email from [no-reply@yosmart.com](mailto:no-reply@yosmart.com) with some helpful information. Please mark the [yosmart.com](https://yosmart.com) domain as safe, to ensure you receive important messages in the future.

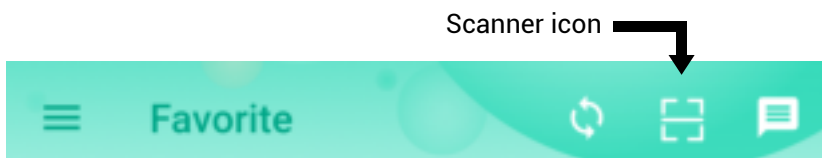
Log in to the app using your new username and password.

The app opens to the **Favorite** screen. This is where your favorite devices and scenes will be shown. You can organize your devices by room, in the **Rooms** screen, later.

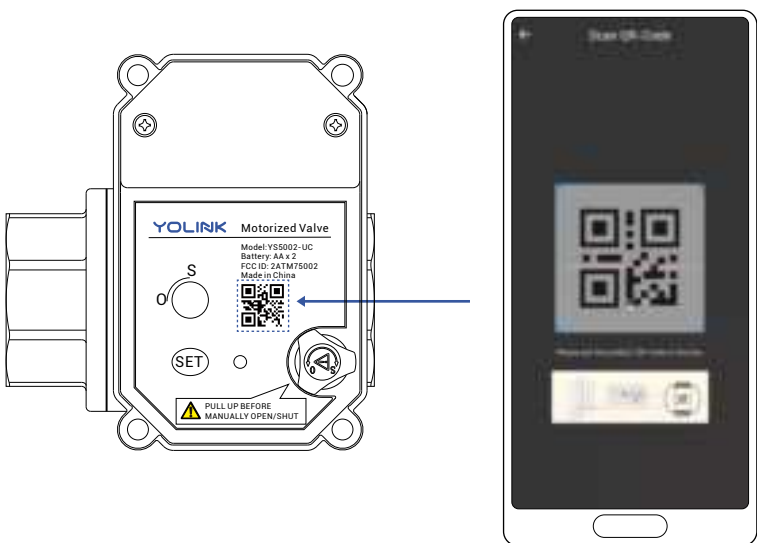


## Add Your Valve to the App

1. Tap **Add Device** (if shown) or tap the scanner icon:



2. Approve access to your phone's camera, if requested. A viewfinder will be shown on the app.

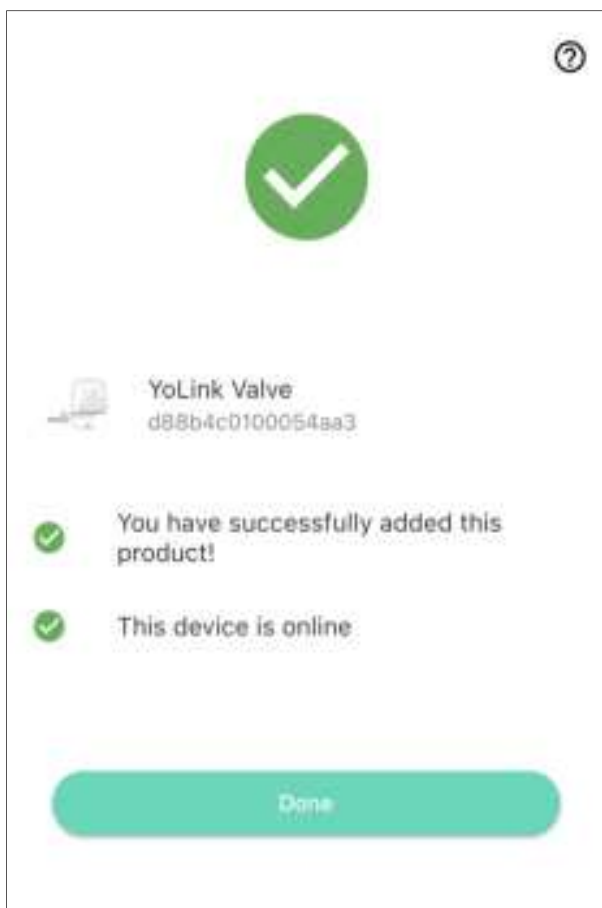


3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the **Add Device** screen will be displayed.



You can change the device name and assign it to a room later. Tap **Bind device**.

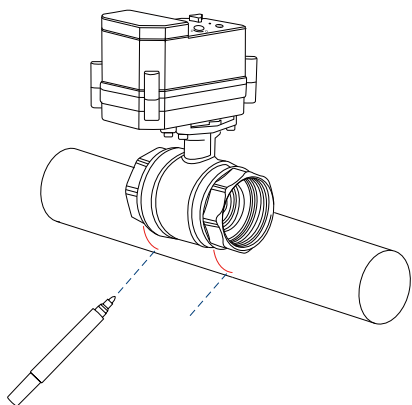
If successful, the screen will appear as shown. Tap **Done**.



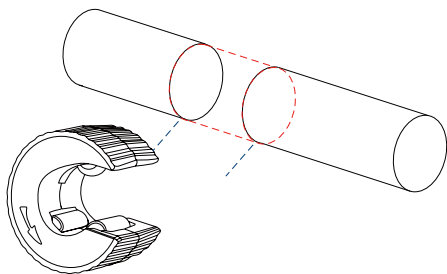
**4.** If the Smart Motorized Valve is not already on, press the SET button for a moment, until the LED illuminates briefly.

## H Installation

1. Shut-off the water serving the pipe where the valve is to be installed. Drain the water from the pipe, by turning on a faucet, or by other method as required.
2. Depending on the adapter fitting used, measure the length of pipe that must be cut, and mark the cut lines on the pipe, as shown below.

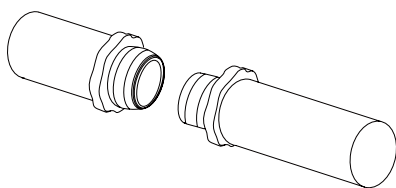


3. Cut the water pipe through the mark using a pipe cutting tool, then remove the cut section of pipe, as shown below.

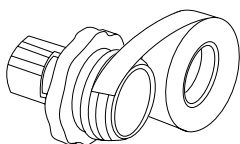


4. Sand both ends of cut pipe, removing any burrs or rough edges. Use care handling the cut edges, which may be sharp! Wipe off the cut section of pipe with a clean cloth.

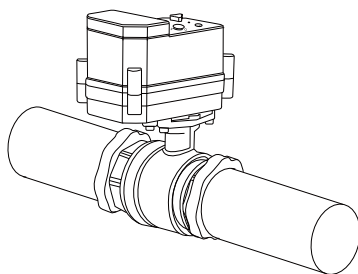
**5.** Install your adapter fittings in the pipe ends, per the manufacturer instructions.



**6.** Wrap each adapter's threaded end with thread seal tape, per the tape manufacturer's instructions, as shown below.



**7.** Install the Smart Motorized Valve on the adapter fittings, ensuring a secure connection at each fitting, as shown below.



**8.** At the water valve or point of disconnection, turn the water on again.

**9.** Verify there are no leaks and no visible water at the pipe fittings or on the Smart Motorized Valve.

**10.** Test the Smart Motorized Valve several times by pressing the SET button and listening for the smooth closing/opening of the valve, and by checking the water flow at a faucet. The water should be completely turned off while the valve is in the shut position.

**11.** Test the operation of the valve by controlling it from the app. From the **Rooms** or **Favorite** screen, locate your Smart Motorized Valve, tap the image, then tap **Close** to turn off the water, and tap **Open** to turn it on.

## About Control-D2D

YoLink Control-D2D is our unique device to device control technology. Using YoLink Control-D2D, YoLink devices can be controlled without the Hub or an internet connection. (Use of YoLink Control-D2D is optional; you can use the Automation feature in the app OR use YoLink Control, but YoLink Control-D2D offers the benefit of operation without the Hub or internet connection.) One device controls another, directly. A device that sends out commands is called the **controller**. A device that receives the commands is called the **responder**. Examples of a controller are a Water Leak Sensor, while examples of a responder are a Siren or the Smart Motorized Valve.

## **Pairing instructions:**

1. To configure your Water Leak Sensor\* as a controller, press and hold the SET button for 5-10 seconds, until the LED quickly blinks green, then release the button.
2. To configure your Smart Motorized Valve as the responder, ensure the valve is closed (manually, or by pressing the SET button), then press and hold the SET button for 5-10 seconds until the LED quickly blinks green, then release the button. Upon pairing, the LED will stop blinking.
3. Test your paired devices. Upon the detection of water at the leak sensor, the valve should automatically close. Please note: the valve will not open when water is removed from the leak sensor. The valve should be closed from the app or by pressing the SET button on the valve.
4. Repeat for other devices, as needed.

## **Unpairing instructions:**

1. At the leak sensor, press and hold the SET button for 10-15 seconds, until the LED quickly blinks green then red, then release the button.
2. At the Smart Motorized Valve, press and hold the SET button for 10-15 seconds, until the LED quickly blinks green then red, then release the button.
3. Upon unpairing, the LED on the leak sensor and the motorized valve will stop blinking and turn off.

4. Test your devices. The Smart Motorized Valve should no longer respond to a water leak detection at the leak sensor.

5. Repeat for other devices, as needed.

\* Refer to the sensor's user guide, as needed. Instructions for Control-D2D pairing can be found in each Control-D2D-enabled product's user guide.



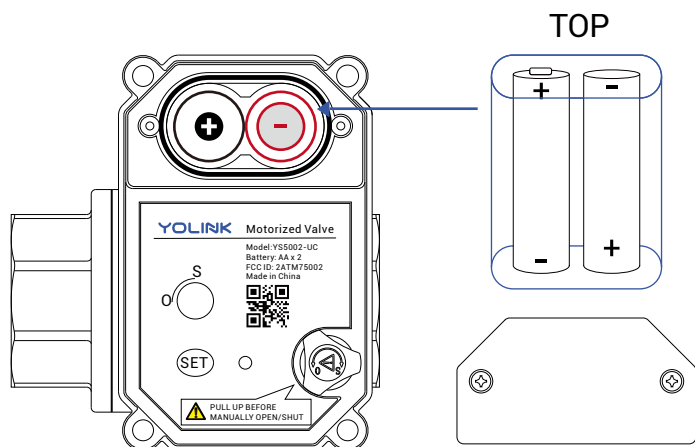
## Using the App & 3rd-Party Services

Please visit our website's Product Support page for the YoLink app guide and for product specific app settings and instructions:

[www.yosmart.com/support-and-service](http://www.yosmart.com/support-and-service)

## K Battery Replacement

1. Loosen the two battery cover screws and remove the battery compartment cover



2. Replace both batteries, observing the polarity and orientation of each battery.

3. Replace the battery compartment cover and tighten the screws.

4. In the app, verify the Smart Motorized Valve is online and batteries are indicated as good.

### IMPORTANT!

The Smart Motorized Valve can be powered by alkaline or lithium batteries. Do not use rechargeable batteries.



## Factory Reset

Factory reset will erase device settings and restore it to factory default settings. Doing a factory reset will not remove the device from your account and it will not harm the device, or lose any data or require you to redo your automations, etc.

### Instructions:

Hold the SET button down for 20-30 seconds, until the LED blinks red and green alternately. Then, release the button. (Holding the button down longer than 30 seconds will abort the factory reset operation)

Factory reset will be complete when the LED stops blinking.

**PLEASE NOTE:** Only deleting a device from the app will remove it from your account. Factory reset will not delete the device from the app.



## Firmware Update

Your YoLink products are constantly being improved, with new features added. It is periodically necessary to make changes to your device's firmware. For optimal performance of your system, and to give you access to all available features for your devices, these firmware updates should be installed when they become available.

In the Detail screen of each device, at the bottom, you will see the Firmware section, as shown in the image below. A firmware update is available for your device if it says "#### ready now"

Tap in this area to start the update.

The device will update automatically, indicating progress by percentage-complete. You may use your device during the update, as the update is performed "in the background". The LED will slowly blink green during the update, and the update may continue for several minutes beyond the LED turning off.

Symptom:

### **1. Device is offline**

- If valve is not connected to the cloud, press the SET button on Smart Motorized Valve
- If Hub is offline, reconnect the Hub to the Internet and press the SET button on Smart Motorized Valve
- If Hub is not on, power on the Hub again and press the SET button on Smart Motorized Valve
- If valve is out of range with Hub, relocating the Hub may be required
- For a device with low-battery indicators or alerts or if the condition of the batteries is in question, replace the batteries with two new "AA" batteries

**2. Other issues**, contact customer service, **831-292-4831 (M-F 9am - 5pm PST) or email 24/7 at [service@yosmart.com](mailto:service@yosmart.com)**



## Warnings

- Please install, operate and maintain the Smart Motorized Valve only as outlined in this manual. Improper use may damage the unit and/or void the warranty
- Do not install or use the Smart Motorized Valve outside of the temperature and humidity range listed in the Environmental section in Specifications, on the Smart Motorized Valve Support page
- While the Smart Motorized Valve is rain-proof, to ensure optimal operation and lifetime of the Smart Motorized Valve, installing the Smart Motorized Valve with overhead protection from weather is suggested. Do not immerse the Smart Motorized Valve or allow it to be immersed in water
- Do not install or use the Smart Motorized Valve where it will be subjected to high temperatures and/or open flame
- If your Smart Motorized Valve does get dirty, please clean it by wiping it down with a clean, dry cloth. Do not use strong chemicals or detergents, which may discolor or damage the exterior and/or damage the electronics, voiding the warranty
- Do not install or use the Smart Motorized Valve where it will be subjected to physical impacts and/or strong vibration. Physical damage is not covered by the warranty

- Power the Smart Motorized Valve only with two AA batteries (see below, regarding batteries)
- Use only new, alkaline or lithium non-rechargeable AA batteries.
- Do not use zinc blend batteries
- Do not mix new and old batteries
- Do not puncture or damage batteries. Leakage can cause harm on skin contact, and is toxic if ingested
- Do not dispose of batteries in fire as they may explode! Please follow local battery disposal procedures
- To avoid damaging the Smart Motorized Valve, if storing the controller for an extended period, remove the batteries
- Please contact Customer Service before attempting to repair, disassemble or modify the device, any of which can void the warranty and permanently damage the device



## Warranty

For warranty information, please visit our Smart Motorized Valve Support page.

## FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



## FCC Statement, Cont.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

PRODUCT NAME:  
SMART MOTORIZED VALVE

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PARTY:  
YOSMART, INC.

---

TELEPHONE:  
831-292-4831

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MODEL NUMBER:  
YS-5002-UC

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ADDRESS:  
15375 BARRANCA PKWY SUITE J-107, IRVINE,  
CA 92618 USA

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EMAIL:  
SERVICE@YOSMART.COM

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## Contact Us

We are here for you, if you ever need any assistance installing, setting up or using a YoLink app or product!

Need help? For fastest service, please email us 24/7 at [service@yosmart.com](mailto:service@yosmart.com)

Or call us at **831-292-4831** (US phone support hours: **Monday - Friday, 9AM to 5PM** Pacific)

You can also find additional support and ways to contact us at:

[www.yosmart.com/support-and-service](http://www.yosmart.com/support-and-service)

Or scan the QR code:



Support Home Page

Finally, if you have any feedback or suggestions for us, please email us at [feedback@yosmart.com](mailto:feedback@yosmart.com)

Thank you for trusting YoLink!

Eric Vanzo  
Customer Experience Manager

# YOLINK

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