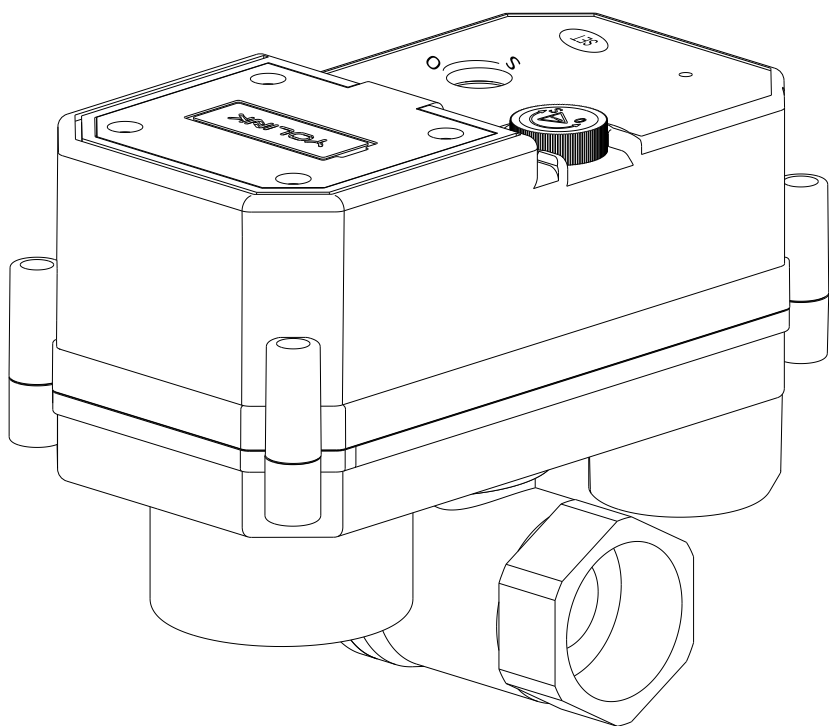




X3 Smart Motorized Valve

YS5012-UC



Installation & User Guide

Revision Jun. 02, 2026

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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!

YoLink Customer Support

User Guide Conventions

The following icons are used in this guide to convey specific types of information:



Very important information
(can save you time!)



Good to know info but may not
apply to you

B Before You Begin

Visit our X3 Smart Motorized Valve support page on our website, for the latest installation guides, additional resources, information and videos by visiting:

<https://www.yosmart.com/support/YS5012-UC>

Or by scanning the QR code:



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



B Before You Begin, Continued

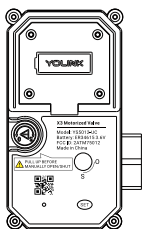


These instructions are not intended to be inclusive of all possible pipe and fitting types, nor are they intended to be comprehensive instructions for inexperienced installers. If you are not comfortable with an installation like this, please consult or hire a qualified plumber. Instructions in this guide are based on a new installation, on copper pipe, with push-fit threaded adapters. The X3 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 or find additional information on our X3 Smart Motorized Valve Support page.

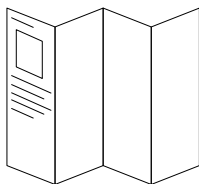
Local plumbing/building codes may require a standard non-electric or non-motorized valve for the main water shut-off - do not replace a non-electric shut-off valve with this motorized valve without first consulting with the applicable code authorities. If installing this valve to shut off the main water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



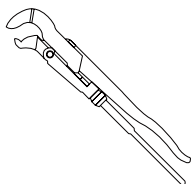
X3 Smart Motorized Valve



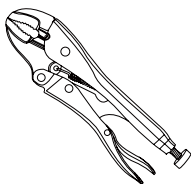
Quick Start Guide

D Required Items

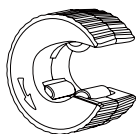
These tools or items may be required:



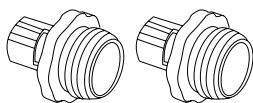
Pipe Wrench



Locking Pliers



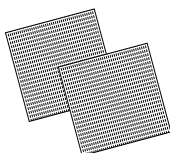
Copper Pipe
Cutting Tool



Pipe Fittings
/Adapters



Thread Seal Tape

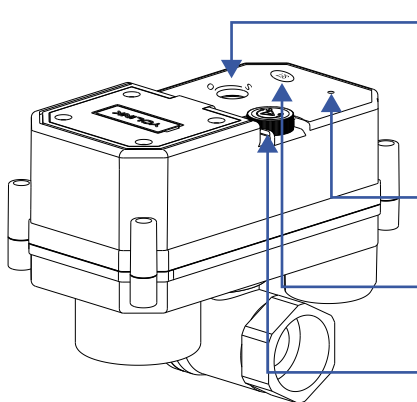


Sandpaper

E

Get to Know Your X3 Smart Motorized Valve

The YoLink X3 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.



Valve Position Indicator

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

LED Indicator

See "LED Behaviors" below

SET Button

Multifunction button

Manual Control Knob

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

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



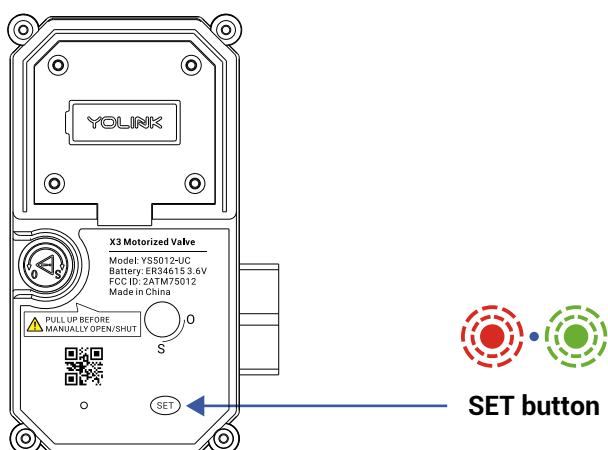
Slow Blinking Green
Updating



Fast Blinking Red 5 Times when pressing the SET Button
Low Battery, Replace Batteries Soon

F Power Up

Power up the X3 Smart Motorized Valve by briefly pressing the SET button, until the LED flashes (red, then green).





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
6.0 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 with some helpful information. Please mark the yosmart.com domain as safe, to ensure you receive important messages in the future.

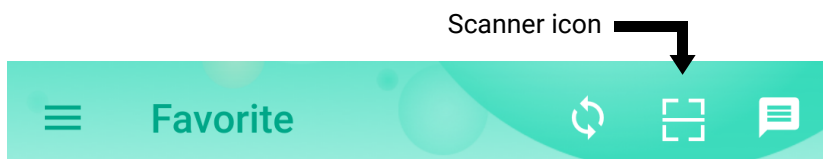
Log in to the app using your new username and password.

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.

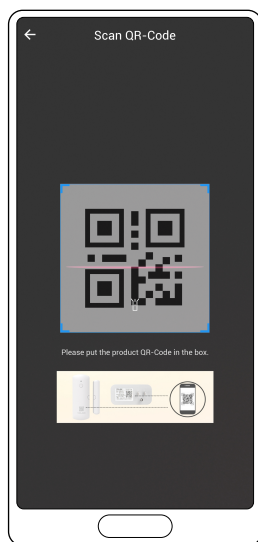
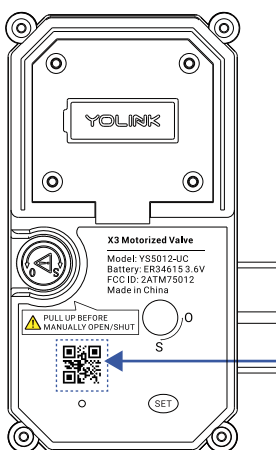


Add Your Valve to the App

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.



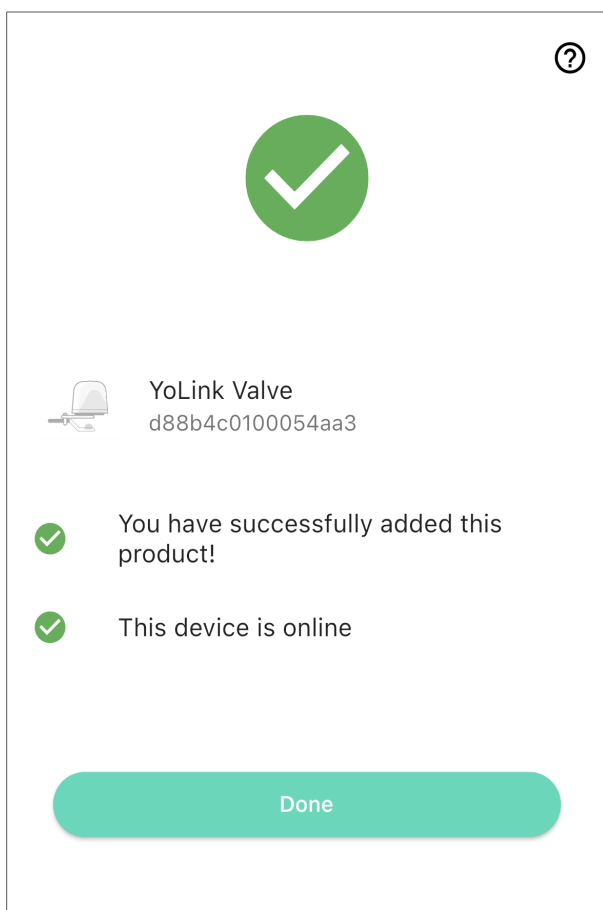
3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the **Add Device** screen will be displayed.



Add Your Valve to the App, Continued

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

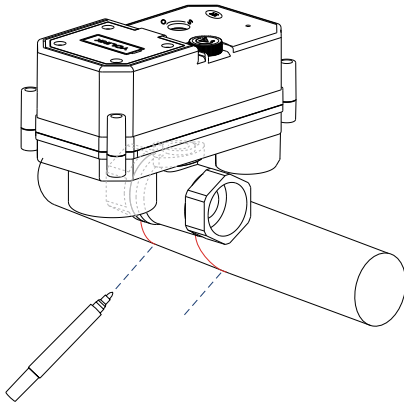
5. If successful, the screen will appear as shown. Tap **Done**.



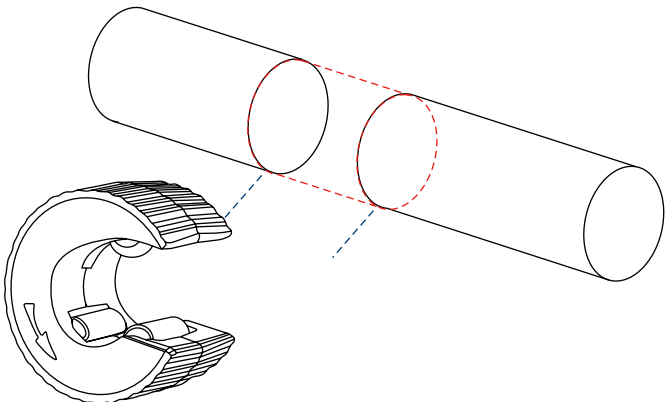
6. If the X3 Smart Motorized Valve is not already on, press the SET button for a moment, until the LED illuminates briefly.

I 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.

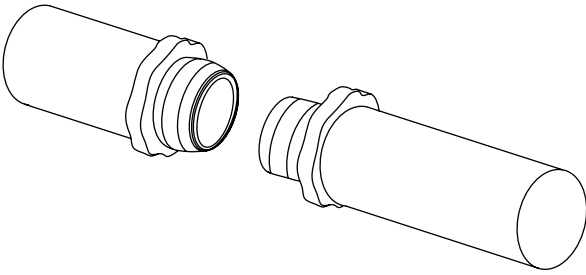




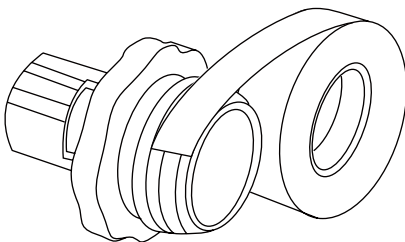
Installation, Continued

4. Sand both ends of cut pipe, removing any burrs or rough edges. Use care when handling the cut edges, as they 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.

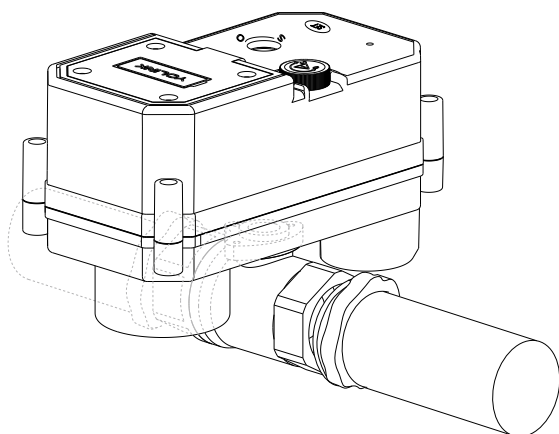


6. Wrap each adapter's threaded end with thread seal tape, per the tape manufacturer's instructions, as shown below.



I Installation, Continued

7. Install the X3 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 X3 Smart Motorized Valve.

10. Test the X3 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 X3 Smart Motorized Valve , tap the image, then tap **Close** to turn off the water, and tap **Open** to turn it on.



Manual Operation

It is recommended to use the app or the SET button on the valve, when you need to open or close the valve. But if you need to manually operate the valve, follow these instructions:

- 1.** On the top of the X3 Smart Motorized Valve, lift the manual control knob.
- 2.** Turn the knob, until it no longer turns. Release the knob.
- 3.** View the valve position as shown in the valve position indicator. The indicator will point to O for Open or S for Shut.
- 4.** Verify the valve is fully-closed or fully-opened, as desired, by checking water at a nearby faucet, etc.



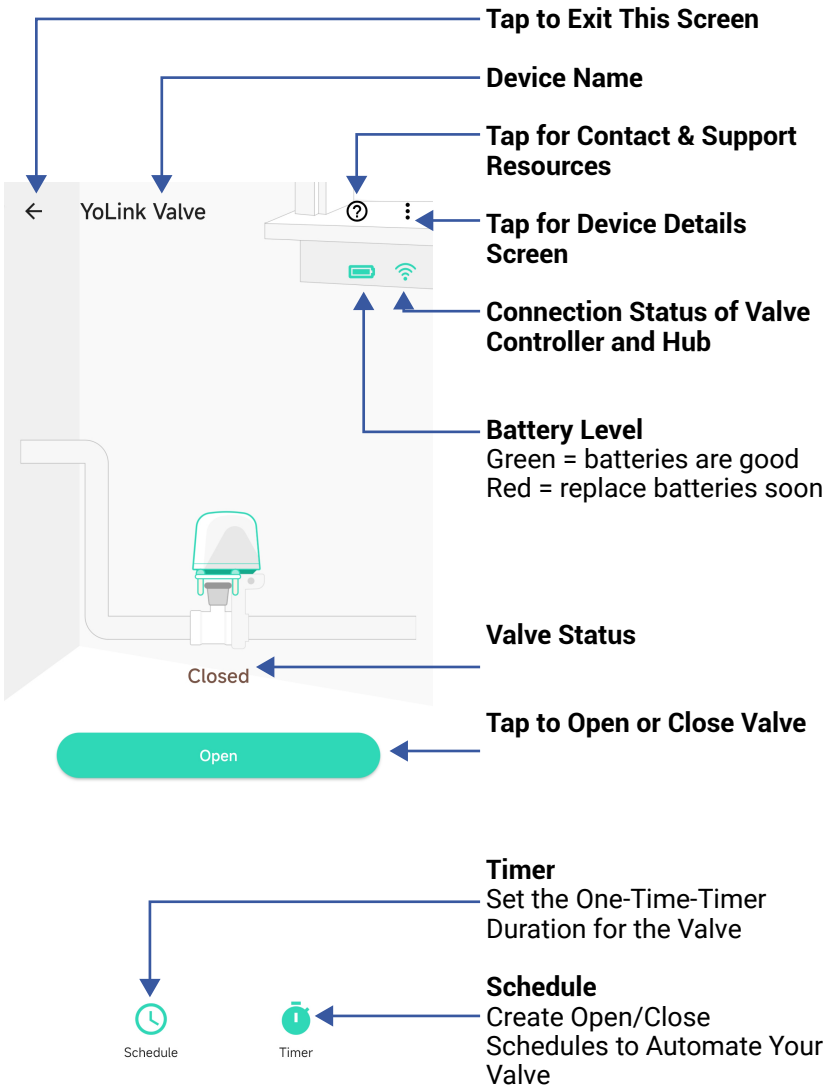
Testing

1. Test the X3 Smart Motorized Valve and motorized valve by pressing the SET button on the controller. Listen for a smooth even sound from the motorized valve. Once closed, ensure that no water is flowing through the valve (the water flowing through the valve may make an audible sound). Check that no water flows from an open faucet served by this valve.
2. Test the operation of the X3 Smart Motorized Valve from the app. From the **Rooms** or **Favorite** screen, locate your X3 Smart Motorized Valve , tap the image, then tap **Close** to turn off the water, and tap **Open** to turn it on.



App Functions: Device Screen

In the app, tap on your X3 Smart Motorized Valve icon. Your X3 Smart Motorized Valve main screen should be similar to the one shown below.





App Functions: Device Details Screen

Tap the three dots (in the upper right corner) to open the X3 Smart Motorized Valve **Details** screen. Your X3 Smart Motorized Valve screen should be similar to the one shown below.

The screenshot shows the 'Details' screen for an X3 Smart Motorized Valve. The header is teal with a back arrow, the title 'Details', and a help icon. The main content is a list of device attributes and settings, each with a value and a right-pointing chevron for editing. A 'Delete' button is at the bottom.

Attribute	Value	Action
Type	YoLink Valve	Device Type
Name	YoLink Valve 54aa2	Device Name (Tap to Edit)
Room	5002	Room (Tap to Edit)
Favorite	Will show in favorite screen	Favorite (Red if Favorite, Tap to Edit)
History	Get device activity logs	History (Tap to view device history)
Open Reminder	Alert after left open	Open Reminder (Tap to Disable or Enable Open Reminder)
State	Opened	State
Valve Maintenance	00:00 on the 1st of every month	Valve Maintenance (Tap to disable or set the valve maintenance cycle)
Time	5/30 00:28:10 (GMT-3)	Time (Tap to sync with mobile)
D2D Control Management		D2D Control Management (Tap to manage Device to Device Control)
Other		
Model	Y5012-UC	
Device EUI	d88b4c0100054aa2	
SN	EE05955F03	
Signal Intensity	Strong (-51 dBm)	
Battery		
Firmware	020B	

Delete



App Functions: Device Details Screen, Continued

<

Details

?

Type

YoLink Valve

Name

YoLink Valve 54aa2 >

Room

5002 >

Favorite

Will show in favorite screen

♡

History

Get device activity logs

>

Open Reminder

Alert after left open

Disabled >

State

Opened

Valve Maintenance

00:00 on the 1st of every month

>

Time

5/30 00:28:10 (GMT-3)

Sync With Mobile >

D2D Control Management

>

Other

Model

YS5012-UC

Device EUI

d88b4c0100054aa2

SN

EE05955F03

 >

Signal Intensity

Strong (-51 dBm)

Battery



Firmware

020B

Delete

Model Number

Device EUI

Unique Identifier Number

Device Serial Number

Signal Intensity

(From YoLink Hub)

Battery

Firmware Revision

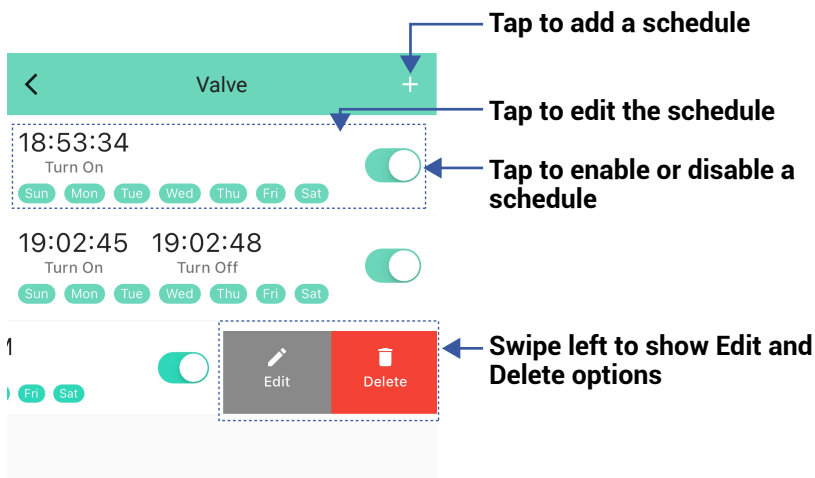
(Refer to page 27)

Remove Device from Current Account

Tap to delete the device from your YoLink account



App Functions: Schedule



You can have a maximum 6 schedules at one time.

The schedule runs on the device (no internet connection required).

You can add more schedules in Automation settings. Automation settings are saved in the cloud.



App Functions: Timer

Turn On After Valve

Slide to enable/disable

Turn Off After Valve

Slide to enable/disable

Set the duration

When enabled, the Valve will close after this timer duration has elapsed

Set the duration

When enabled, the Valve will open after this timer duration has elapsed

The timer starts when the settings are saved (by tapping the checkmark at the upper right of the screen).

You can add more timers in Automation settings. Automation settings are saved in the cloud.



The timer will run only once. You can set a new timer after the timer has already run once or after you cancel it.

The timer runs on the device (no internet connection required).



App Functions: Alarm Strategy Screen

You can set up notifications in Alarm Strategy settings, make sure you have enabled App, Email, SMS notification from the app->Menu->Settings->Account Settings->Advanced Settings, and verified your email address and added your phone number in the app.

The screenshot shows the 'Alarm Strategy' settings screen. The header is green with a back arrow, a question mark icon, and the title 'Alarm Strategy'. Below the header, there are several sections: 'Name' with the value 'Always' and a right arrow; 'Related Devices' with the value '1' and a right arrow; 'Enable Device Alarm' with a green toggle switch; 'Do Not Disturb' with a grey toggle switch; 'Send App Notification' with a dropdown menu set to 'Admin'; 'Send Email' with a dropdown menu set to 'None'; 'Send SMS' with a dropdown menu set to 'None'; and 'Trigger Action' with a dropdown menu set to 'None'. At the bottom is a green 'Save' button. Annotations with arrows point to the question mark icon, the 'Always' text, the '1' text, the 'Enable Device Alarm' toggle, the 'Do Not Disturb' toggle, and the 'Send App Notification' dropdown.

Strategy Name
Tap to edit the name

Related Devices
Tap to add more devices (that can alert) to this strategy, a device can be related to only one strategy

Tap to Enable or Disable The Strategy

Tap to Set Up Dnd (Do Not Disturb)



App Functions: Alarm Strategy Screen, Continued

The screenshot shows the 'Alarm Strategy' screen with a teal header. Below the header are sections for 'Name' (set to 'Always'), 'Related Devices' (1), 'Enable Device Alarm' (toggle on), 'Do Not Disturb' (toggle off), 'Send App Notification' (set to 'Admin'), 'Notification Settings' (iOS only), 'Send Email' (set to 'None'), 'Send SMS' (set to 'None'), and 'Trigger Action' (set to 'None'). A green 'Save' button is at the bottom. Blue arrows point from text boxes on the right to the 'Send App Notification', 'Send Email', 'Send SMS', and 'Trigger Action' settings.

Send App Notification

Tap to select Admin to enable App push, select All, if desired for all members

Notification Settings (iOS only)

Tap to change notification tone, if desired

Send Email

Tap to select Admin to enable email notification, select All, if desired to send to all members

Send SMS

Tap to select Admin to enable limited text messages, select All (subscribe required-starter or standard plan), if desired to send to all members

Trigger Action

Tap to choose trigger actions (YoLink sirens, YoLink SpeakerHubs, scene)



App Functions: Automation

The X3 Smart Motorized Valve can be set up as a condition in an automation.

Automation

Name

Auto Shut Off

13/64

When

7903 Leak Sensor

Water Leak Alert

Then

Behavior



YoLink Valve

Close

Working Time

Always Working

Advanced Settings



22

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 X3 Smart Motorized Valve.

During D2D pairing, both the controller and the responder must be in the correct operational state corresponding to their intended behavior. For example, if the controller (leak sensor) is meant to close a valve when the leak detected, the valve should be closed during pairing.

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.



Control D2D, Continued

2. To configure your X3 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 X3 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.



Control D2D, Continued

3. Upon unpairing, the LED on the leak sensor and the motorized valve will stop blinking and turn off.
4. Test your devices. The X3 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

The YoLink X3 Smart Motorized Valve works with several voice assistants, such as Alexa, and it works with other automation platforms such as IFTTT and Home Assistant.

To set up 3rd-party integrations (Alexa and IFTTT), in the app, go to Settings, Third-Party Services, and follow the instructions.

Refer to the Home Assistant website and the YoLink integration page for instructions.

<https://www.home-assistant.io/integrations/yolink/>



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.



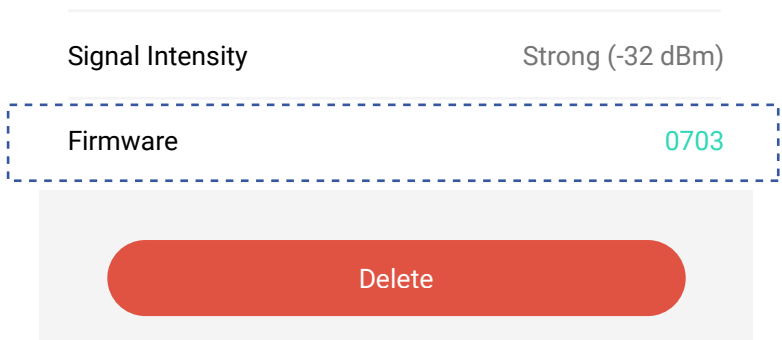
Only deleting a device from the app will remove it from your account. Factory reset will not delete the device from the app.



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"



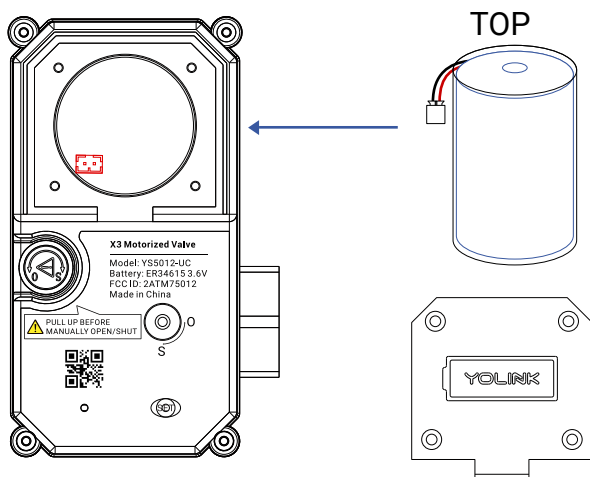
Tap in this area to start the update.

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.



Battery Replacement

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



2. Disconnect the battery assembly cable and remove the old battery.

3. Connect the new battery assembly cable to the controller, and seat the battery assembly in the correct location.

4. Press the SET button, check the valve in the app, to confirm it is online and the battery level icon indicates a full battery.

5. Reinstall the battery compartment cover and tighten the screws.



Specification

Voltage: ER34615 Lithium,
3.6V, 19000mAh ,
non-rechargeable

IP Rating: IP65

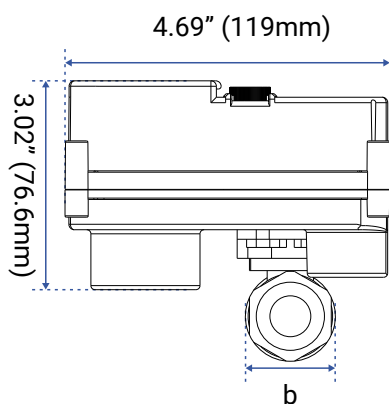
Device Current Draw $\leq 110\mu\text{A}$ (Standby)
 $\leq 350\text{mA}$ (Work)

Environment: Working Temperature:
0°C- 50°C
(32°F-122°F)

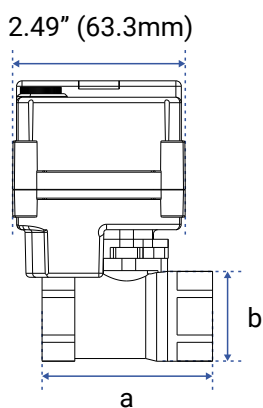
Working Humidity:
 $\leq 90\%$ non-condensing



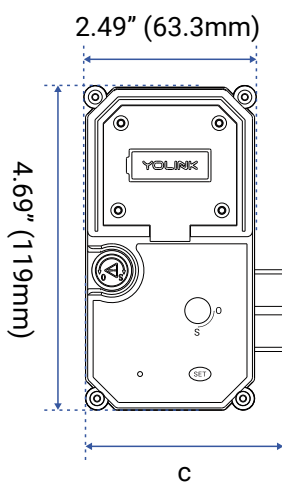
Specification, Continued



FRONT



SIDE



TOP

	a	b	c
DN15	2.17" (55mm)	1.3" (33mm)	2.74" (69.5mm)
DN20	2.8" (71mm)	1.54" (39mm)	3.09" (78.5mm)
DN25	2.83" (72mm)	1.77" (45mm)	3.13" (79.5mm)

Warnings

- Please install, operate and maintain the X3 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 X3 Smart Motorized Valve outside of the temperature and humidity range listed in the Environmental section in Specifications, on the X3 Smart Motorized Valve Support page
- While the X3 Smart Motorized Valve is rainproof, to ensure optimal operation and lifetime of the X3 Smart Motorized Valve, installing the X3 Smart Motorized Valve with overhead protection from weather is suggested. Do not immerse the X3 Smart Motorized Valve or allow it to be immersed in water
- Do not install or use the X3 Smart Motorized Valve where it will be subjected to high temperatures and/or open flame
- If your X3 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 X3 Smart Motorized Valve where it will be subjected to physical impacts and/or strong vibration. Physical damage is not covered by the warranty

X Warnings, Continued

- 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
- 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



1 Year Limited Electrical Warranty

YoSmart Inc. warrants to the original user (“customer”) of this product that it will be free from defects in materials and workmanship, under normal use, for 1 year from the date of purchase. This warranty does not apply to devices that have been improperly installed, modified, put to a use other than designed, or subjected to acts of God (such as floods, lightning, earthquakes, etc.). This warranty does not cover neglected or abused products. This warranty is limited to the repair or replacement of the device, only, at YoSmart's sole discretion. YoSmart will NOT be liable for the cost of installing, removing, nor reinstalling this product, nor direct, indirect, or consequential damages to persons or property resulting from the use of this product. This warranty only covers the cost of replacement parts or replacement units, it does not cover shipping & handling fees. The customer must provide proof of purchase, in the form of the original purchase invoice or order number. The purchase must have been made from an authorized seller.

To implement this warranty please contact us by one of the methods listed on the Contact Us page of this user guide.

Z 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.

Z FCC Statement, Continued

- Consult the dealer or an experienced radio/TV technician for help.

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

PRODUCT NAME:
X3 SMART MOTORIZED VALVE

PARTY:
YOSMART, INC.

TELEPHONE:
831-292-4831

MODEL NUMBER:
YS5012-UC

ADDRESS:
25172 ARCTIC OCEAN DRIVE, SUITE 106
LAKE FOREST, CA 92630 USA

EMAIL:
SERVICE@YOSMART.COM



-English:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

To maintain compliance with RSS-102 RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

-French:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Pour être conforme aux lignes directrices d'exposition RF RSS-102, cet équipement doit être installé et exploité à une distance minimale de 20cm entre le radiateur et votre corps: n'utilisez que l'antenne fournie.



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

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

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

Thank you for trusting YoLink!

YoLink Customer Support

YOLINK

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