

## X3 Valve Controller

YS5001S-UC & BULLDOG

Quick Start Guide

Revision Apr. 18, 2023

### 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

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

Pour des instructions en français, scannez les codes QR dans la section suivante.

Para obtener instrucciones en español, escanee los códigos QR en la siguiente sección.

### B Before You Begin

Please note: this is a quick start guide, intended to get you started on the installation of your X3 Valve Controller. Download the full Installation & User Guide by scanning this QR code:



Installation & User Guide

You can also find all current guides and additional resources, such as videos and troubleshooting instructions, on the X3 Valve Controller Product Support Page by scanning the QR code below or by visiting:

<https://shop.yosmart.com/pages/x3-valve-controller-product-support>



Product Support  
Support produit  
Soporte de producto

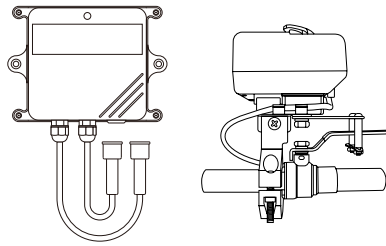


Please note: the existing ball valve must be in good working order. It must open and close smoothly, with minimal effort, and it must close fully, shutting off the water completely. The Bulldog Valve Robot is not able to correct mechanical issues of the ball valve.

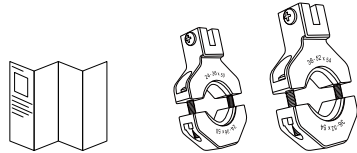
Your X3 Valve Controller connects to the internet via a YoLink Hub or SpeakerHub, and it does not directly connect to your WiFi or local network. In order for remote access to the device from the app, and for full-functionality, a YoLink hub is required. This guide assumes the YoLink app has been installed on your phone, and a YoLink Hub or SpeakerHub is installed and online.

If installing the X3 Valve Controller and Bulldog Valve Robot outdoors, please refer to the environmental range specifications found on the Valve Controller product support page. While these devices can be installed outdoors, it should be protected from rain and direct sunlight by an enclosure or overhead cover, such as a rain hood.

### C In the Kit



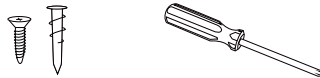
X3 Valve Controller Bulldog Valve Robot



Quick Start Guide Large & Small Brackets

### D Required Items

The following items will be required:



Screws and Anchors Medium Phillips Screwdriver

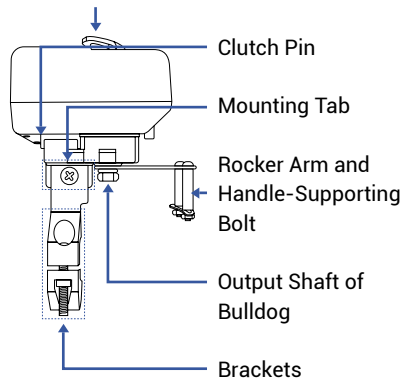
The following items may be required:



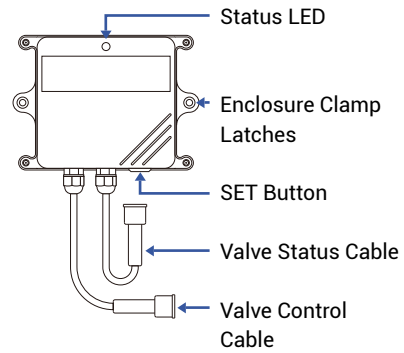
Drill with Drill Bits

### E Get to Know Your Bulldog Valve Robot

Handle and Position Indicator



### F Get to Know Your X3 Valve Controller

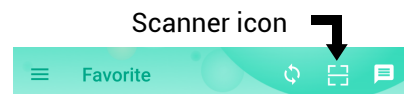


LED Behaviors

- 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
- Quick Blinking Green  
Control-D2D Pairing in Progress
- Quick Blinking Red  
Control-D2D Unpairing in Progress
- Slow Blinking Green  
Updating
- Fast Blinking Red Once Every 30 Seconds  
Low Battery, Replace Batteries Soon

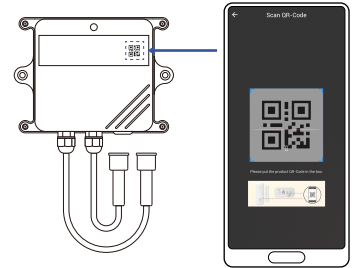
### G Add Your X3 Valve Controller to the App

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



### G Add Your X3 Valve Controller to the App, Cont.

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.

4. Follow the instructions to add your Valve Controller to the app.

### H Install the X3 Valve Controller

**Preparing for installation:**

Determine where you will install your X3 Valve Controller. Typically, it should be wall-mounted, no farther away from the Bulldog Valve Robot than the length of the cables allow (if you have purchased optional extension cables, the valve controller can be installed at a location separate from the Bulldog Valve Robot).

Determine how you will mount the valve controller to the wall, and have hardware and anchors appropriate for the wall surface on hand.

1. Holding the valve controller in position, mark the location of the valve controller's two mounting holes to the wall surface.

2. If using anchors, install them, per the manufacturer's instructions.

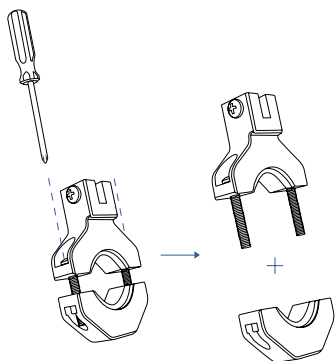
3. Insert and tighten one screw in each of the controller's mounting holes, ensuring the controller is secured to the wall or mounting surface.

## I Install the Bulldog Valve Robot, Continued.

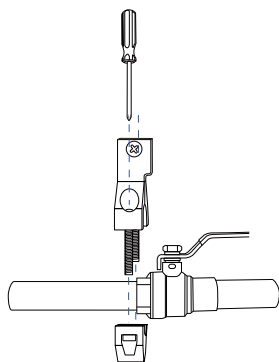


The smaller bracket is for ½", ¾" and 1" threaded and press-fit ball valves, while the larger bracket is for 1", 1-1/4" and 1-1/2" threaded and press-fit ball valves. Solder, PEX, and oversized valves will require a different bracket, which must be purchased separately. Refer to the product support page for additional information.

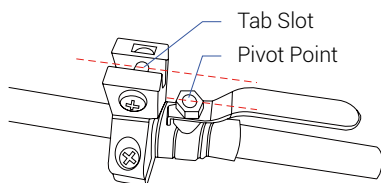
1. Select the appropriate bracket for your application. Loosen the screws on the brackets, to allow for separating the upper and lower bracket part, as shown below. The appropriate bracket for your ball valve will fit over the ball valve, and will allow for it to be clamped securely to the ball valve, in the following steps.



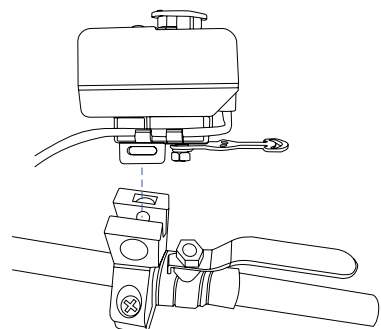
2. Install the upper and lower brackets on the ball valve. If needed, first separate the upper and lower brackets by loosening the two screws, using a Phillips screwdriver.



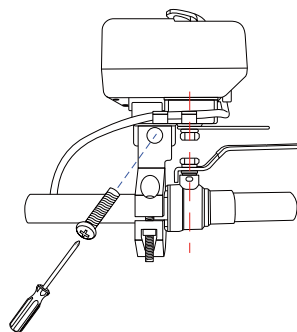
3. Position the bracket so that it is aligned with the axis of the ball valve. It may help to visualize a line going straight through the middle of the tab slot and the middle of the valve handle axis (pivot point), as shown in the diagram. Tighten the screws, and verify the brackets are firmly secured to the ball valve by pushing or tugging on the brackets by hand.



4. Remove the screw from the tab slot, then attach the Valve Robot to the bracket.

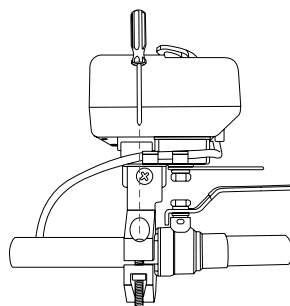


5. Keeping the center axis of the Valve Robot's motor shaft aligned with the ball valve shaft, as indicated by the red dashed line, reinsert and tighten the tab slot screw.



If it is not possible to align the parts as shown, or if the bracket can not be secured to the ball valve, consider rotating the ball valve handle 180°. After removing the Bulldog, this can be done by removing the ball valve handle, and then reinstalling it on the other side. Reinstall the Bulldog (on the other side of the ball valve) and check if alignment is better in this position.

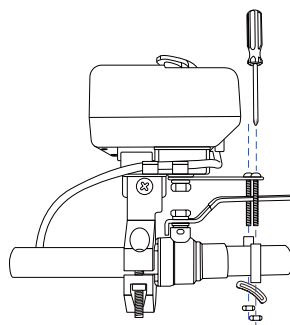
6. Securely tighten the two screws on the bracket. Gently tug on the Bulldog, and tighten the screws until the Bulldog is firmly held in place by the bracket and tab screw.



7. Remove the nuts and collars from the two handle supporting bolts, as shown.



8. Place the bolts in the slot on the rocker arm, with one on each side of the valve handle, as shown.



9. Put the collars back on the bolts. Next, while holding the bolts and collar pieces in place, attach the bottom supporting bracket, as shown. Then, attach and loosely tighten the nuts to the bolts. Finally, position both bolts and collars so that they are snug against each side of the valve lever.

## J Power Up, Final Connections & Testing

1. Connect the valve control cable of the Bulldog Valve Robot to the valve control cable of the X3 Valve Controller. Ensure the arrow of the cable connector aligns with the arrow of the other cable connector. Twist the collar of the connector tight.

2. Connect the valve status cable of the Bulldog Valve Robot to the valve status cable of the X3 Valve Controller. Ensure the arrow of the cable connector aligns with the arrow of the other cable connector. Twist the collar of the connector tight.

3. The X3 Valve Controller will appear offline until it is turned on and it wirelessly connects to a YoLink hub. Turn on the Valve Controller by pressing the SET button until you see the LED blink (red, then green, indicates the Valve Controller has connected to the cloud).

4. In the app, verify the X3 Valve Controller is indicated as online.

5. Test the X3 Valve Controller and Bulldog Valve Robot by pressing the SET button on the controller, and by watching the closing or opening action of the Bulldog and the ball valve. The valve should open and close completely (verify no water is flowing through the valve while closed). Also, listen for an even sound of the motor operating. If the Bulldog sound increases or appears to be straining, this may indicate incorrect or sub-optimal Bulldog installation and/or a mechanical issue with the ball valve (such as too stiff or too much resistance to turning). Return to the previous section and verify the steps to properly align and adjust the Bulldog Valve Robot on the ball valve.

6. Test the operation of the X3 Valve Controller from the app. From the **Rooms** or **Favorite** screen, locate your X3 Valve Controller, tap the image, then tap **Close** to turn off the water, and tap **Open** to turn it on.

**Refer to the full installation and user guide to complete the setup of your X3 Valve Controller and Bulldog Valve Robot.**

## K 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

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