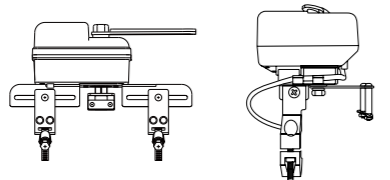


EVO Motorized Valve

Motorized Valve



EVO Valve Operator

Bulldog Valve Robot

Valve Controller 2 & EVO Motorized Valve / DN Series Motorized Valve/ EVO Valve Operator / Bulldog Valve Robot

YS5003-UC & Motorized Valve or YS5004-15/20/25 or YS5004-UC or Bulldog Valve

Quick Start Guide

Revision Jun. 28, 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



Fr

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



Es

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 Valve Controller 2 and EVO Motorized Valve kit or EVO Valve Operator kit. 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 Valve Controller 2 Support Page by scanning the QR code below or by visiting:

<https://shop.yosmart.com/pages/valve-controller-2-product-support>



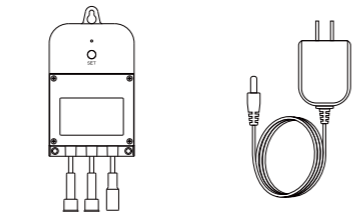
Product Support
Support produit
Soporte de producto



Your Valve Controller 2 wirelessly 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.

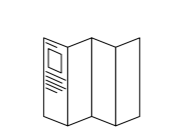
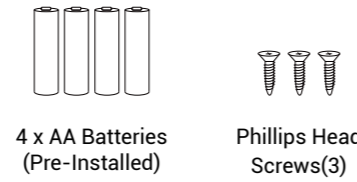
If installing the Valve Controller 2 and motorized valve or EVO Valve Operator outdoors, please refer to the environmental range specifications found on the Valve Controller 2 product support page. While these devices can be installed outdoors, it should be protected from rain and direct sunlight by an enclosure or overhead cover, such as a rain hood.

C In the Kit

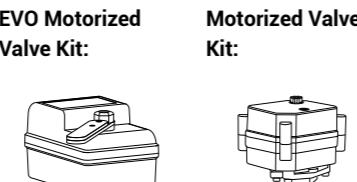


Valve Controller 2

Plug-in Power Supply



Quick Start Guide



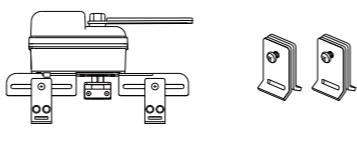
EVO Motorized Valve Kit:

Motorized Valve Kit:

Motorized Valve

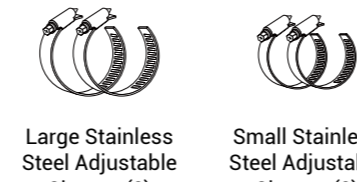
Motorized Valve

EVO Valve Operator Kit:



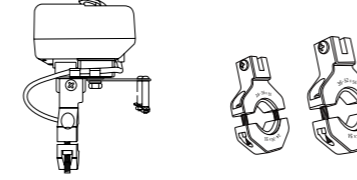
EVO Valve Operator

Small Bracket (2)



Valve Shaft Adapter

Bulldog Valve Robot Kit:

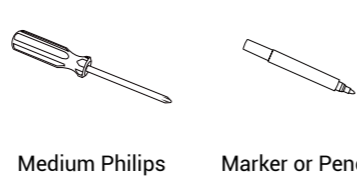
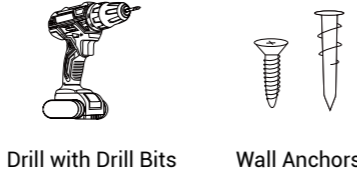


Bulldog Valve Robot

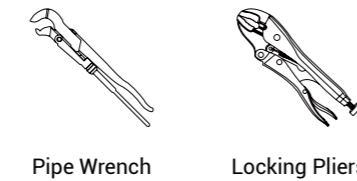
Large & Small Brackets

D Required Items

These tools or items may be required:

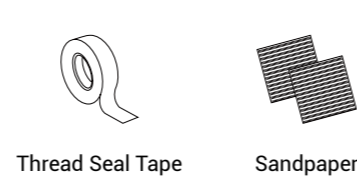
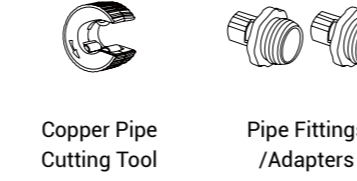


EVO Motorized Valve & Motorized Valve Kit:

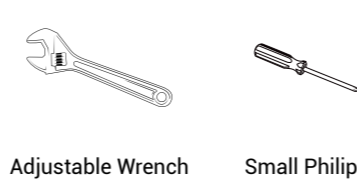


Pipe Wrench

Locking Pliers



EVO Valve Operator & Bulldog Valve Robot Kit:

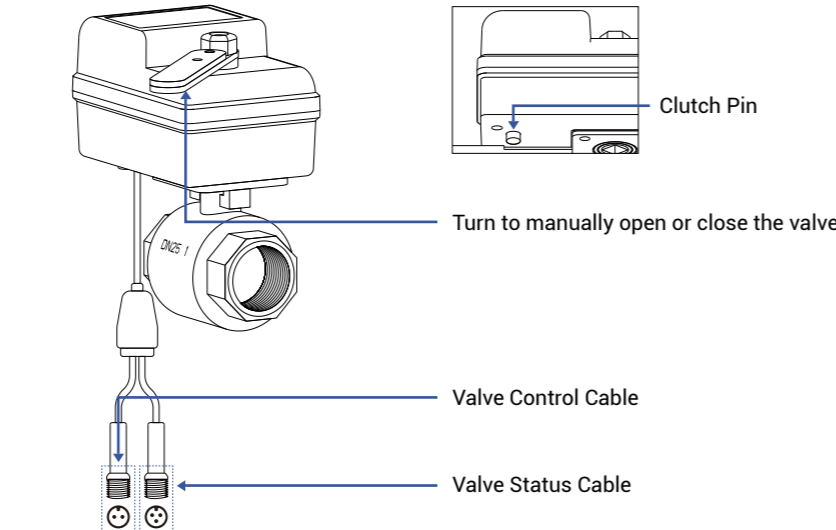


Adjustable Wrench

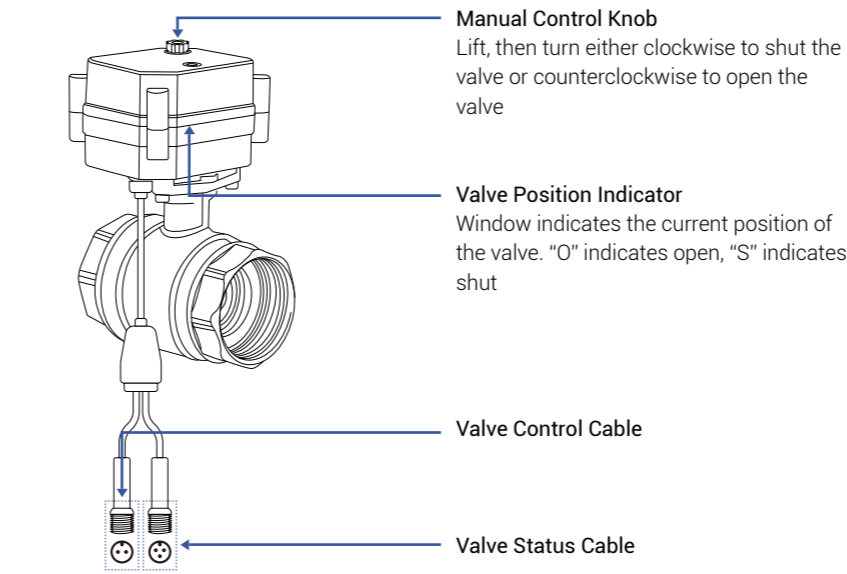
Small Philips Screwdriver

E Get to Know Your EVO Motorized Valve

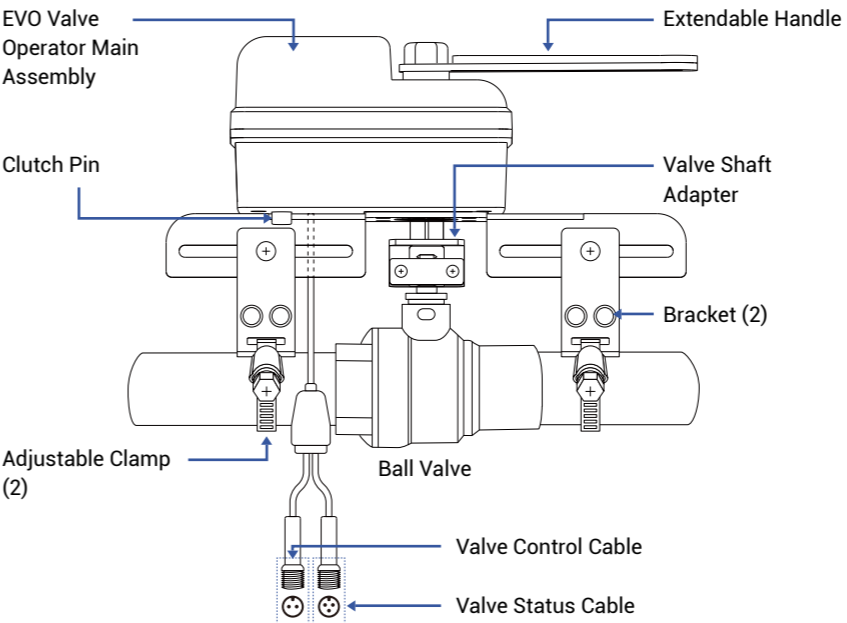
The valve included in this kit is a 12VDC non-smart motorized valve. Use only this valve or YoLink-approved valve control products, such as the Bulldog Valve Robot. Do not use with non-YoLink valve products.



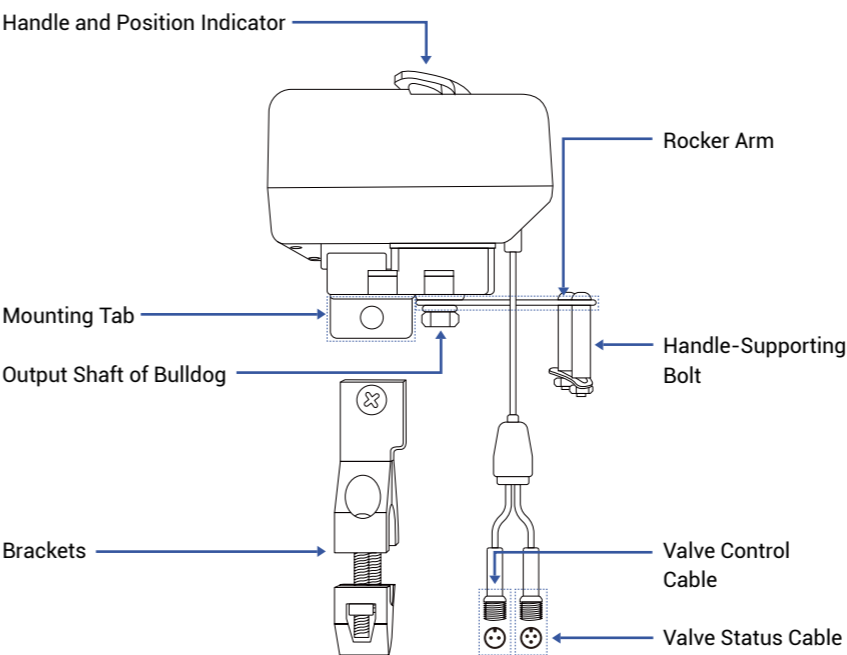
F Get to Know Your Motorized Valve



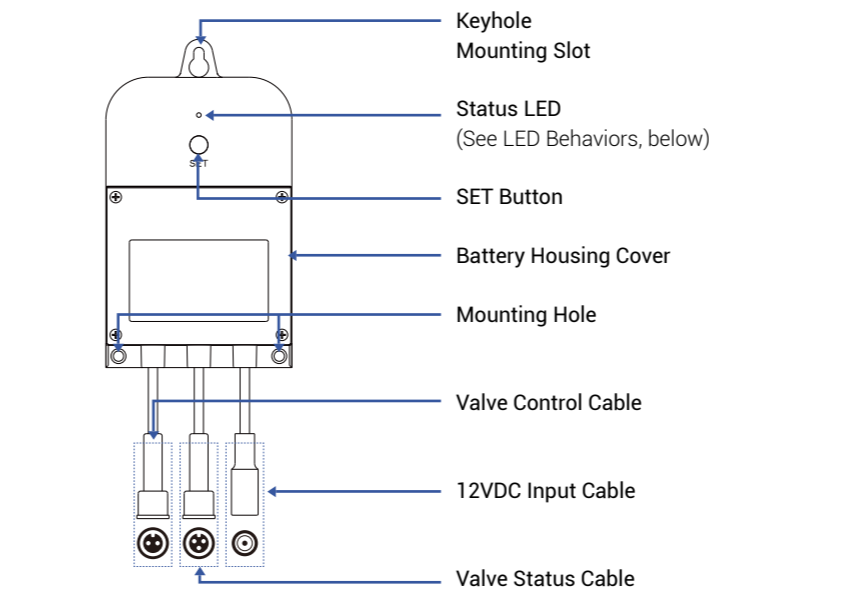
G Get to Know Your EVO Valve Operator



H Get to Know Your Bulldog Valve Robot



I Get to Know Your Valve Controller 2



I Get to Know Your Valve Controller 2, Continued.

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 Once Every 30 Seconds
Low Battery, Replace Batteries Soon

K Install the Valve Controller 2

Preparing for installation:

Determine where you will install your Valve Controller 2. Typically, it should be wall-mounted, no farther away from the valve 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 valve).

Note: use of the 12VDC power adapter is optional. If not used, batteries are required. If the power adapter is used, batteries are optional.

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

1. Mark the location of the hole for each of the valve controller's three mounting points on the wall. Install anchors, if applicable, per the anchor manufacturer's instructions. Insert the screw for the topmost mounting point, leaving enough space to hang the controller.

2. Hang the controller on this top screw, then insert the two remaining screws into their respective anchors or locations.

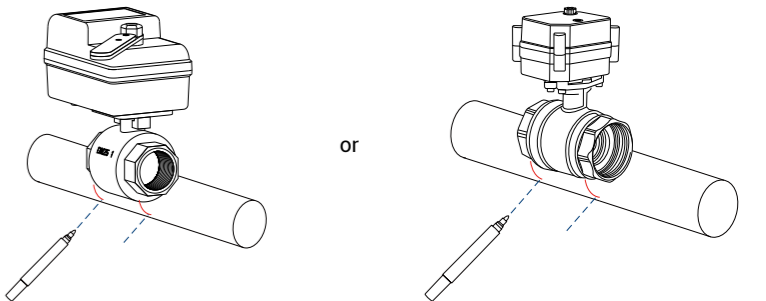
3. Tighten all three screws, ensuring the valve controller is secured to the wall.

Proceed to the appropriate section for your valve device.

L Install the EVO Motorized Valve or Motorized Valve

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.

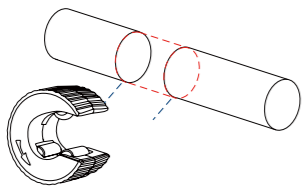
2. Depending on the adapter fitting used, measure the length of pipe that must be cut, and mark the cut lines on the pipe, as shown below.



or

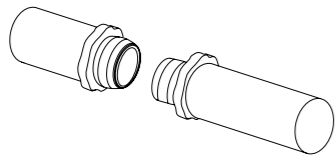
L Install the EVO Motorized Valve or Motorized Valve

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

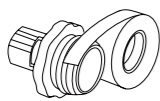


4. Sand both ends of cut pipe, removing any burrs or rough edges. Use care handling the cut edges, which may be sharp! Wipe off the cut section of pipe with a clean cloth.

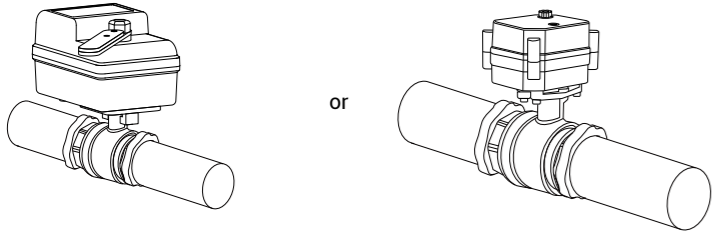
5. Install your adapter fittings in the pipe ends, per the manufacturer instructions.



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



7. Install the EVO 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.

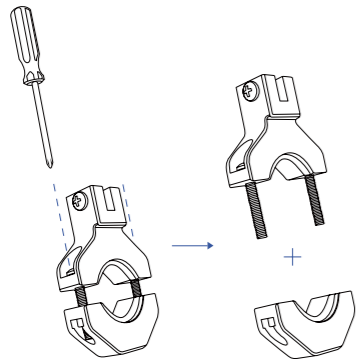
9. Verify there are no leaks and no visible water on the motorized valve.

Proceed to section L, Power Up, Final Connections & Testing

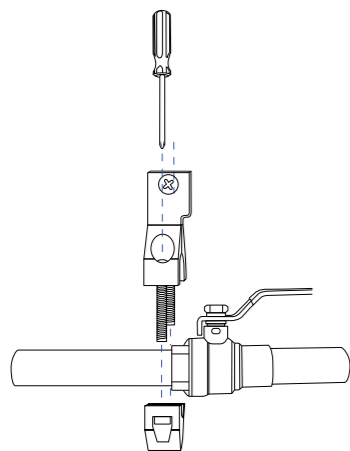
M Install the Bulldog Valve Robot

1. Select the appropriate bracket for your application. The appropriate bracket fit over the ball valve, and will allow for clamping securely to it when the screws are tightened. If the bracket does not fits over the ball valve or seems to be too loose, use the other bracket.

2. Loosen the two screws, to separate the bracket into two pieces, as shown.

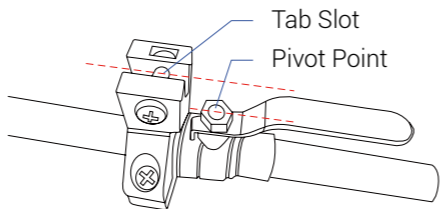


3. Place the upper bracket and lower bracket on the valve, as shown, and loosely tighten the screws.

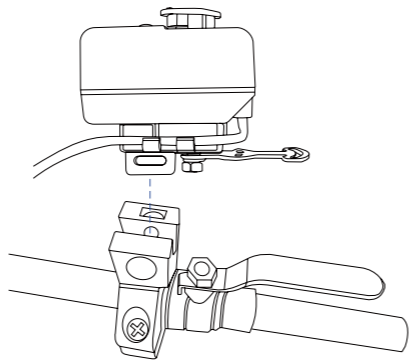


M Install the Bulldog Valve Robot, Continued.

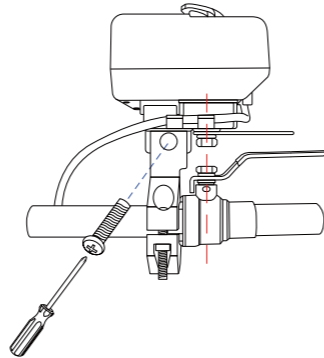
4. Position the bracket so that it is aligned with the pivot point of the ball valve, by visualizing a line between the tab slot and the pivot point, as shown.



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

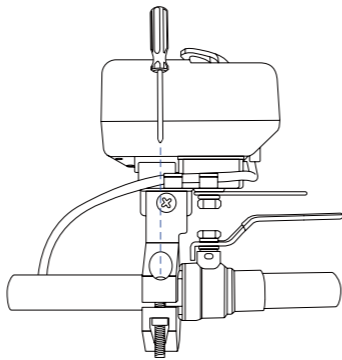


6. Keeping the center axis of the Valve Robot's motor shaft aligned with the ball valve shaft, as indicated by the red dashed line, reinsert and tighten the tab slot screw.

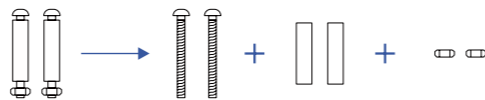


If it is not possible to align the parts as shown, or if the bracket can not be secured to the ball valve, consider rotating the ball valve handle 180°. After removing the Bulldog, this can be done by removing the ball valve handle, and then reinstalling it on the other side. Reinstall the Bulldog (on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

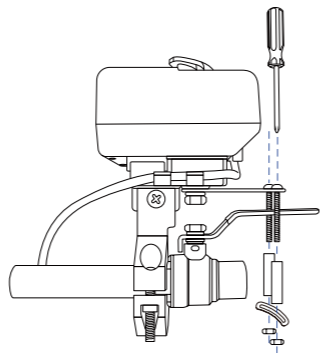
7. Securely tighten the two screws on the bracket. Gently tug on the Bulldog, and tighten the screws until the Bulldog is firmly held in place by the bracket and tab screw.



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



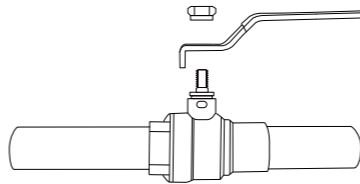
9. Place the bolts in the slot on the rocker arm, with one on each side of the valve handle, as shown.



10. Put the collars back on the bolts. Holding them in place with one hand, insert the bottom supporting bracket over the end of each bolt, as shown. Insert and loosely tighten a nut on each bolt. Now, position each bolt/collar so that it is snug against the valve lever handle, with one on each side of the handle. Using a Phillips screwdriver, tighten the screw on each bolt/collar assembly, holding the nut in place, as needed. Confirm that each collar is snug against the handle.

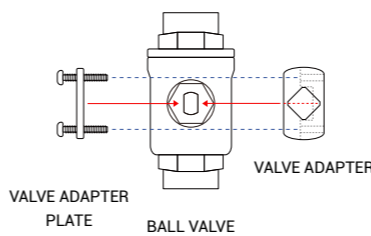
N Install the EVO Valve Operator

1. Before you can install the EVO Valve Operator on the ball valve, you must first remove the existing handle. Depending on the ball valve, you will need either an adjustable or socket wrench, or a screwdriver. Using the appropriate tool, remove the existing handle and nut, as shown below. If there was a washer on the ball valve, leave it in place.

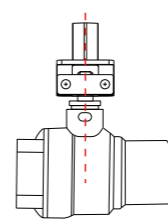


Make a mental note of the orientation of the ball valve handle. If the space is confined, not allowing the rotation of the handle if in another position, the EVO should be installed with the handle in the same orientation.

2. Connect the valve shaft adapter to the shaft of the ball valve. You will first need to loosen the two screws on the adapter's plate. Fit the adapter over the ball valve's shaft. The flat part of the adapter's plate will join to one flat side of the ball valve's shaft, and the flat, inner, side of the adapter should join the other flat side of the ball valve's shaft, as shown in the figure below. (It should not be necessary to remove the plate.) Tighten the screws, thereby clamping the adapter securely to the shaft of the ball valve.



Top view, before attachment of adapter



Side view, after attachment of adapter

3. The EVO is shipped with a pair of brackets, in two sizes. To check for the appropriate size, lower the EVO Valve Operator over the valve shaft adapter, as shown in Figure 1, below.

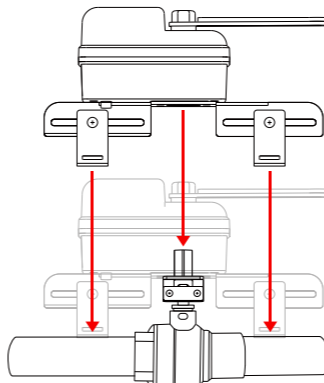


Figure 1

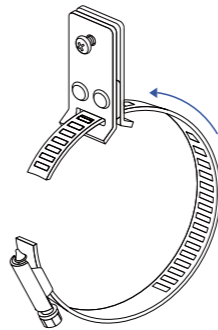
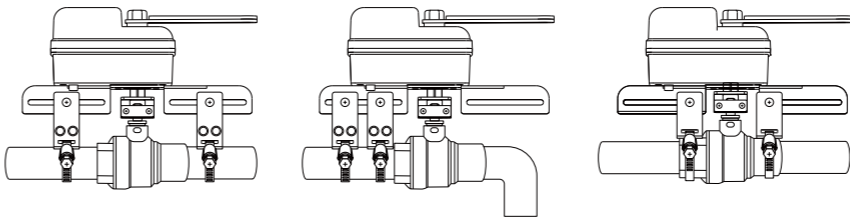


Figure 2

Rotate the EVO Valve Operator as needed, to align the square protrusion at the top of the adapter with the matching square socket at the underside of the EVO Valve Operator. If needed, swing the brackets out of the way, if they are too large and prevent the EVO Valve Operator from being seated on top of the adapter.

If placed correctly, the square socket of the EVO Valve Operator will fit over the top of the valve shaft adapter, locking in place. Move the brackets back in place, as shown. The brackets may be secured to the ball valve, or to the pipe. If it is not possible to have a bracket on each end of the EVO Valve Operator as shown, two brackets can be installed on the same side. In this case, space them as far apart as possible, to provide maximum stability. The brackets are too big if you can not place them over the pipe, at a right angle to the pipe, as shown.

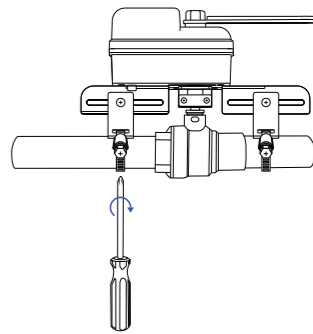
The brackets provide stability for the EVO Valve operator while in operation, and they can be installed in one of numerous configurations as shown below. Ideally, one bracket will be installed on each side of the valve, and as far apart as possible, but if your application does not permit this, both brackets can be installed on one side. Select the short or long bracket that fits best. If a bracket is too big to fit at the location, use the small bracket.



5. Your application will require a pair of large or small adjustable clamps, to secure the brackets to the pipe (or valve). Choose the smallest appropriate size and thread the adjustable clamp through both sides of the bracket and around the pipe/valve as shown in Figure 2 above.

N Install the EVO Valve Operator, Continued.

6. Tighten the screw on both adjustable clamps, firmly securing the EVO Valve Operator to the pipe or valve.



7. Gently tug on the EVO Valve Operator, ensuring there is no looseness or movement of the EVO Valve Operator away from the ball valve.

8. Mechanically test the EVO Valve Operator prior to connection to the valve controller. To move the handle on the EVO Valve Operator, you must first depress the clutch pin (the pin is on the underside of the EVO Valve Operator). Extend the handle, as needed, and turn it to the closed position. Verify water is completely turned off, by checking from a faucet.

Scan the appropriate QR code to watch a short installation video. Visit the Valve Controller 2 product support page for additional videos and product support resources.

EVO Valve Operator:



EVO Motorized Valve:



O Power Up, Final Connections & Testing

1. The 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 2 has connected to the cloud).

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

3. Connect the valve controller's valve control cable to the control cable of the Motorized Valve or Valve Operator.

4. Connect the valve controller's valve status cable to the valve status cable of the Motorized Valve or Valve Operator.

5. If using the power adapter, and before plugging in the power adapter to the AC power outlet, connect the valve controller's 12VDC input cable to the power adapter cable. Plug in the power adapter at the wall outlet.

6. Test the Valve Controller 2 and valve by pressing the SET button on the controller, and by watching the closing or opening action of the 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 motor appears to be straining, indicated by an uneven and/or increasing operation sound, this can indicate a problem with the motorized valve or the valve operator, or a mechanical issue with the existing ball valve (if applicable). Return to the appropriate installation section and confirm each step was performed per the instructions. If unable to resolve the matter, please contact our customer support department. See the contact information at the end of this guide.

7. Test the operation of the Valve Controller 2 from the app. From the **Rooms** or **Favorite** screen, locate your Valve Controller 2, 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 Valve Controller 2.

P 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!

Eric Vanzo
Customer Experience Manager

YOLINK

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