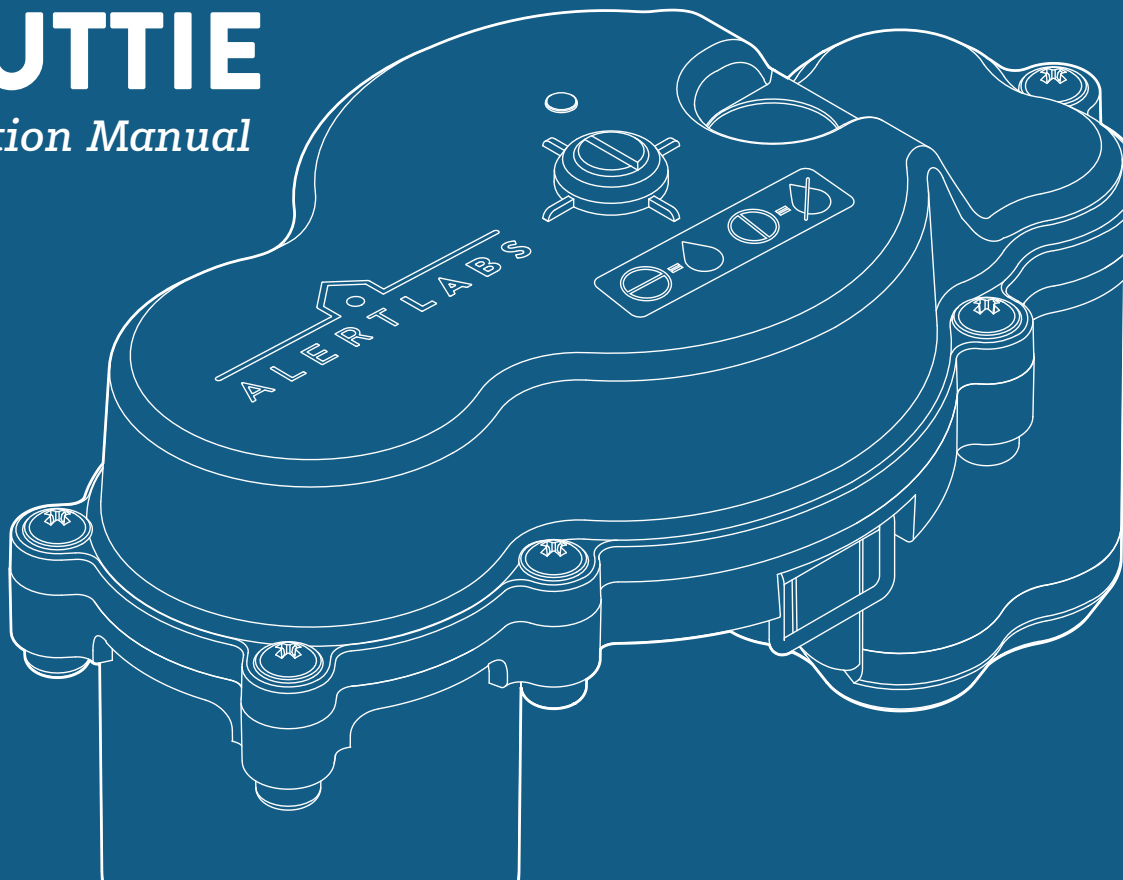






SHUTTIE

Installation Manual



 **Warning!** This product includes moving parts. Keep your fingers or any other objects away.

 **Warning!** This product was designed to prevent water leakage damages and should be used for this purpose only.

SHUTTIE SPECIFICATION

Part No.	HDW-000081-001
Product description	The wireless, battery operated water Actuator is mounted on an ISO5211 ball valve installed on the main water line. The water supply automatically shuts off whenever a leak is detected. Shutoff can also be manually controlled by the user.
Dimensions	142x73x92mm (5.6x2.87x3.62")
Weight	640g (22.5 oz)
Power supply	4 x 3V batteries (CR123A)
Operation voltage	6V
Battery life span	Up to four years based on one operation per day/5 days a week.
Operating RF	915 MHz
Transmission range	Open space - up to 230 m (750 ft.) In enclosed space - up to 120 m (390 ft.) Avoid installing in a metal cabinet.
Certification	FCC: 2AFOILOR IC: 20798-LOR
IP Rating IEC60529	IP67
Working temperature	-20C to +50C (-40F to +1220F)

FCC STATEMENTS

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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.

WARNING – RF EXPOSURE COMPLIANCE: This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

IC STATEMENTS

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

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

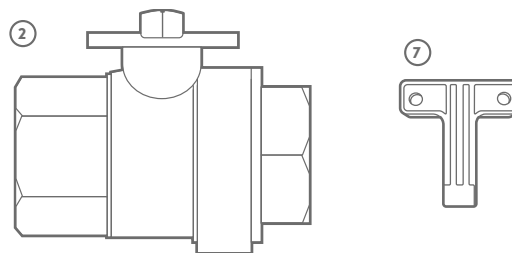
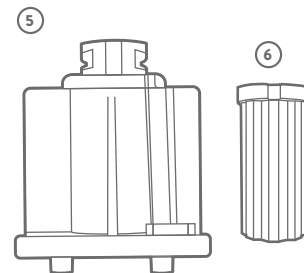
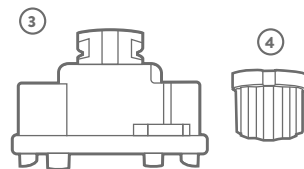
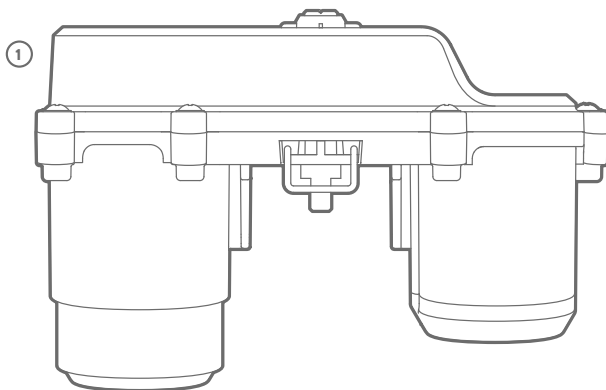
L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

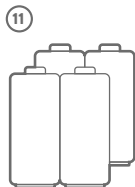
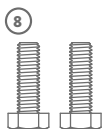
- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

AVERTISSEMENT – CONFORMITÉ AUX NORMES D'EXPOSITION AUX RF : Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

What's Included

- ① Shuttie
- ② Actuator Valve
- ③ Perpendicular Actuator Mount
- ④ Perpendicular Valve Adapter Insert
- ⑤ Inline Actuator Mount
- ⑥ Inline Valve Adapter Insert
- ⑦ T-Shaped Key
- ⑧ Screws
- ⑨ Lock washers
- ⑩ Nuts
- ⑪ Batteries
- ⑫ Shuttie Installation Manual

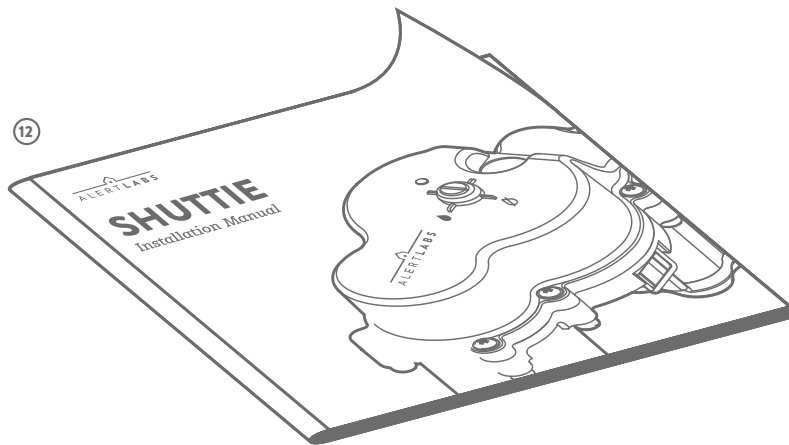




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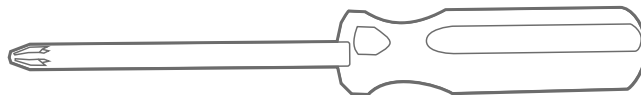


10



What You Need

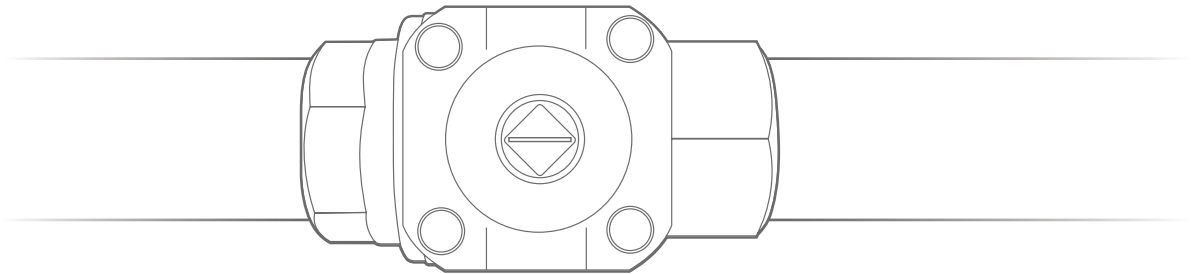
- ① Phillips Head Screwdriver



What To Do First

- ① Call a plumber
- ② Ask the plumber to install the ball valve because the water pipe will need to be cut.

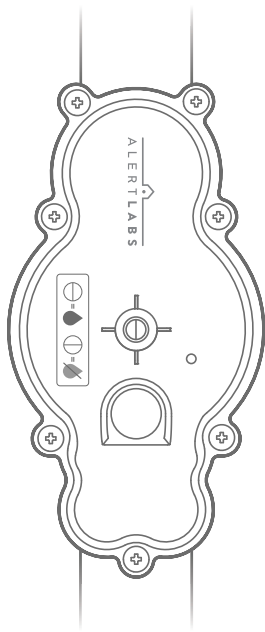
A plumber installed
this valve



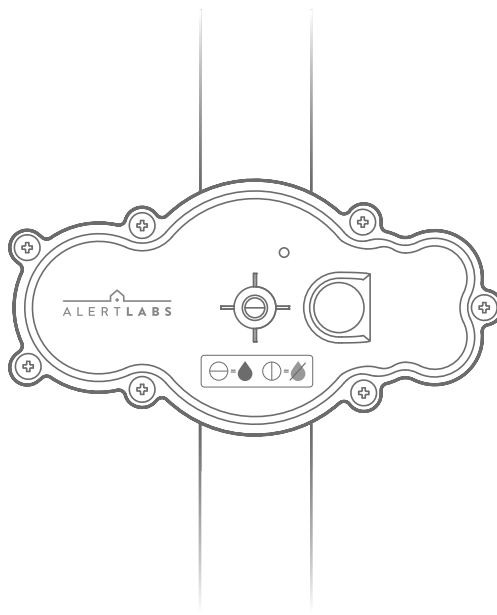
Installation Options

Shuttie can be installed either inline or perpendicular to the water line.

Inline Installation:



Perpendicular Installation:

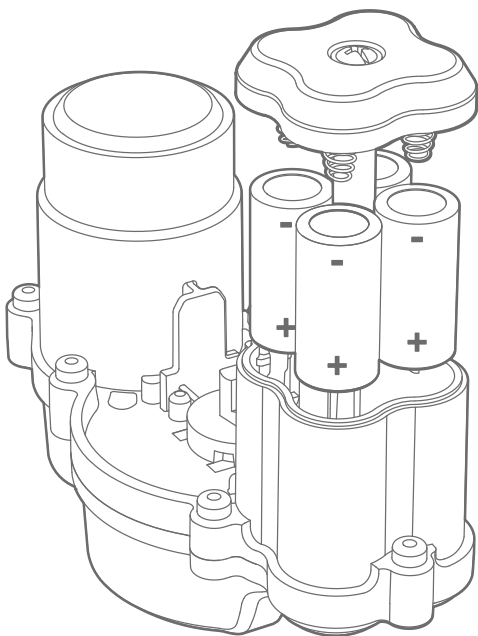


Installing Shuttie

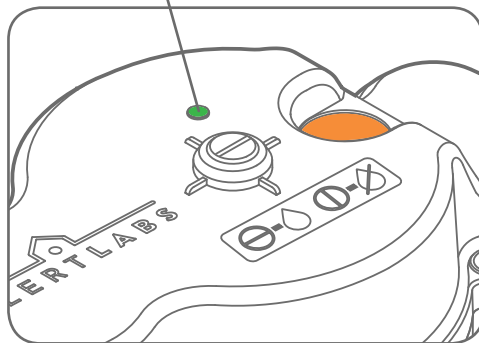
Before you begin installing Shuttie, watch the video at alertlabs.com/ShuttieInstall.

Remove Shuttie from the box and remove the plastic wrap from the batteries.

NOTE: When the batteries are first installed and the compartment is closed, Shuttie will automatically start a cleaning process where it will close and then open again.



- RED - Error
- BLUE - Communication fault
- GREEN - Operating
- OFF - No power

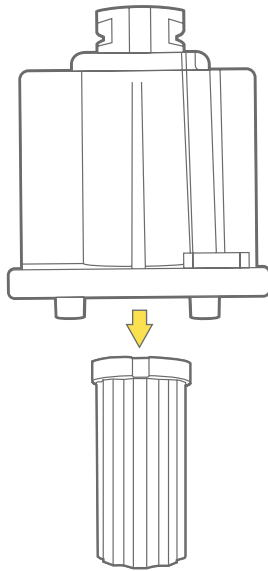


1

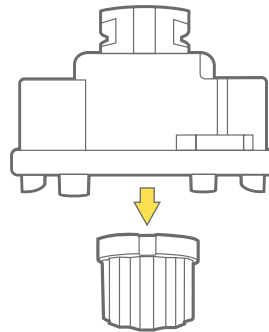
Inserting The Batteries

Loosen the screw on the bottom of the battery compartment to remove the cap using a Phillips-head #1 screwdriver. Place all 4 x CR123 batteries into the compartment with '+' end facing the orange button side of the Shuttie. Place the cap back onto the compartment. Align the edges of the cap and compartment before tightening the screw to make sure it closes properly. Press the orange button briefly to check the Shuttie LED status color. It should be green.

LONG ACTUATOR MOUNT
In-line installation



SHORT ACTUATOR MOUNT
Perpendicular installation



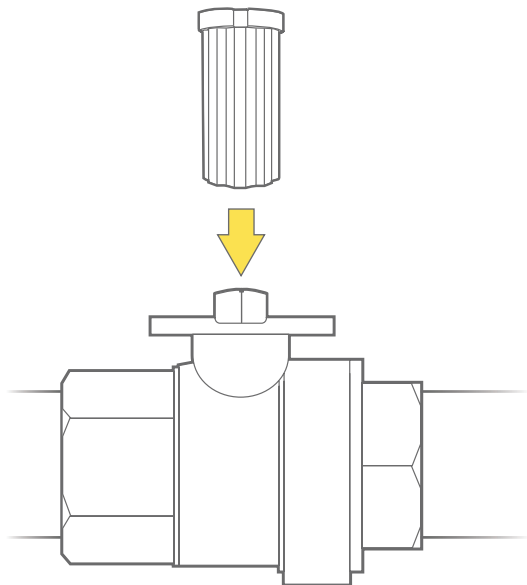
2

Installing The Adapter

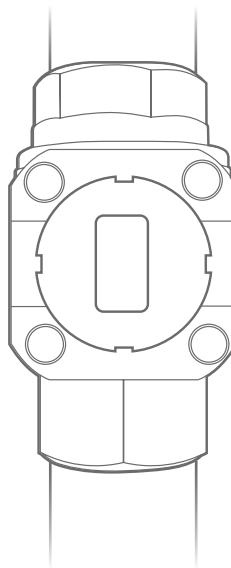
Open a water tap briefly to confirm that the valve is open and water is running. If the valve is closed, turn it 90 degrees using a wrench. Select the actuator mount according to installation type. Remove the one you need from the box.

LONG ACTUATOR MOUNT - In-line installation **SHORT ACTUATOR MOUNT** - Perpendicular installation

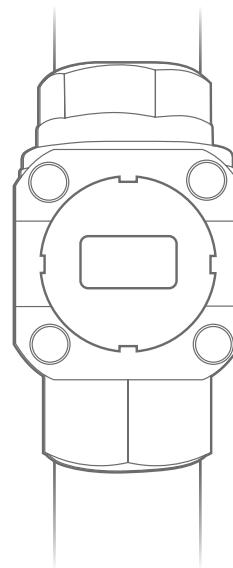
Remove the gray star-shaped valve adapter insert from inside the actuator mount.



**IN-LINE
INSTALLATION**



**PERPENDICULAR
INSTALLATION**

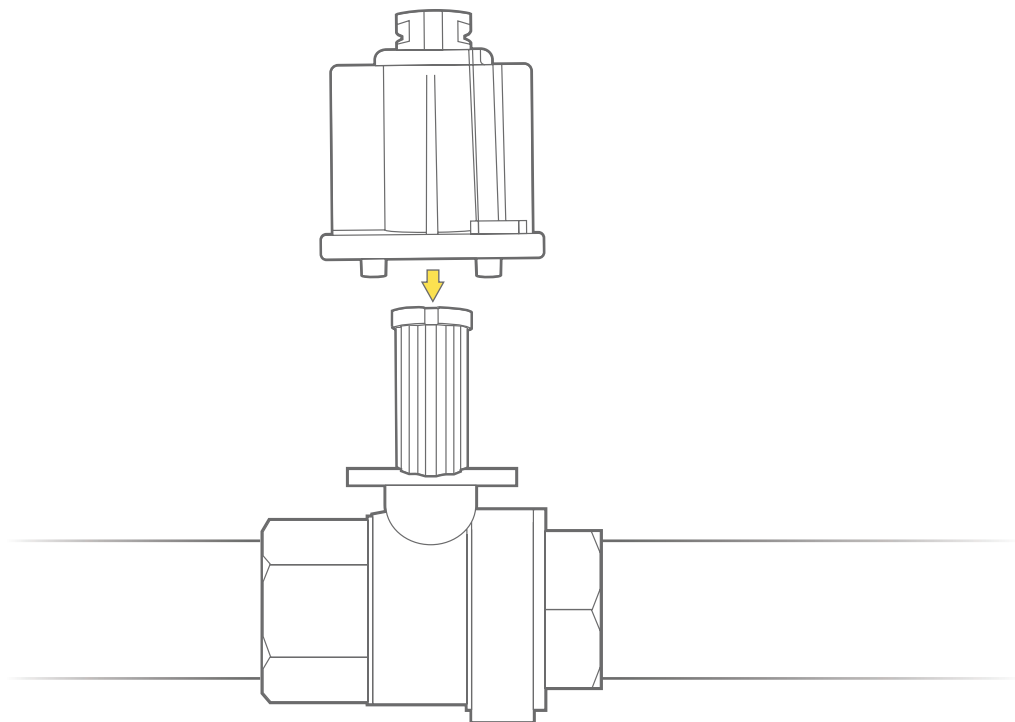


3

Place the valve adapter insert onto the valve. The direction of the rectangular slot will depend on the type of installation (see images above).

PARALLEL to the pipe - In-line installation

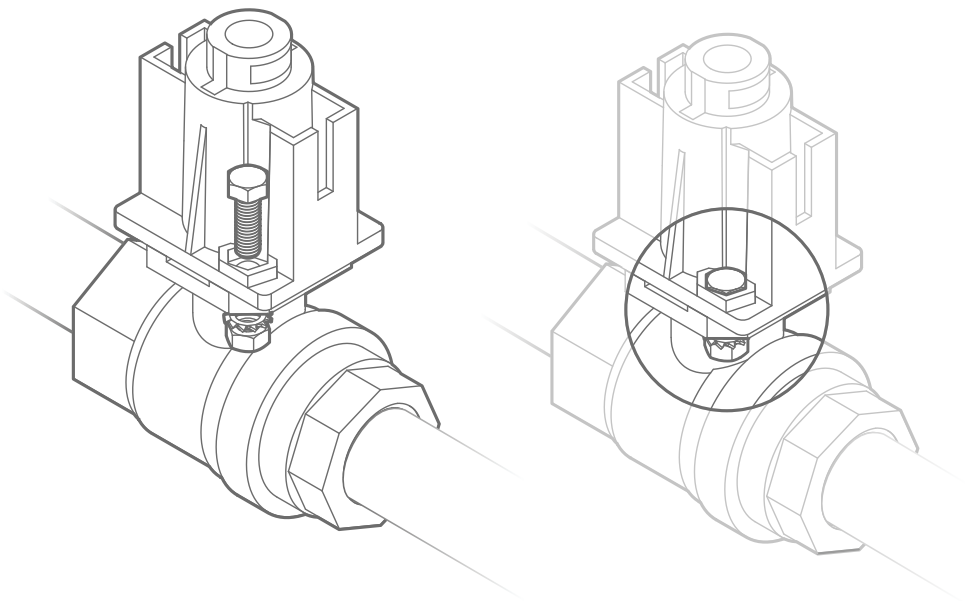
PERPENDICULAR to the pipe - Perpendicular installation.



4

Slide the gray actuator mount over the valve adapter insert, aligning the screw holes on the water valve.

NOTE: There are 2 holes for screws on opposite corners of the actuator mount that align to the holes on the water valve.

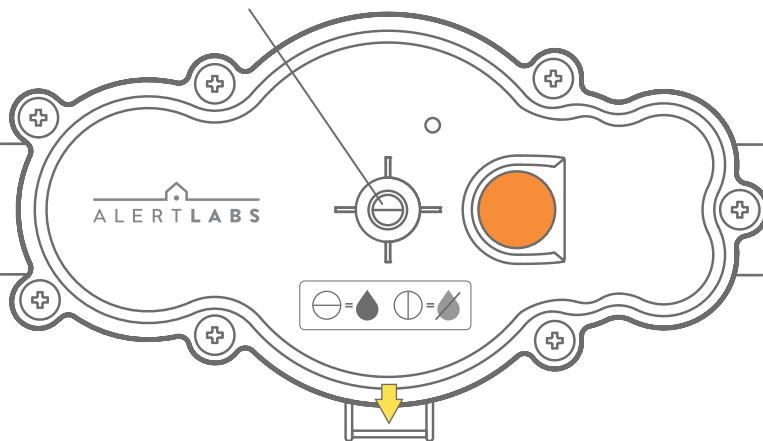


5

Next you will need the bag of screws, lock washers and nuts. Insert the screws through the mount and valve. Tighten the nuts with lock washers onto the screws.

NOTE: You will know the screws are fully tightened when the hexagon screw heads fit inside the cut-outs in the adapter mount.

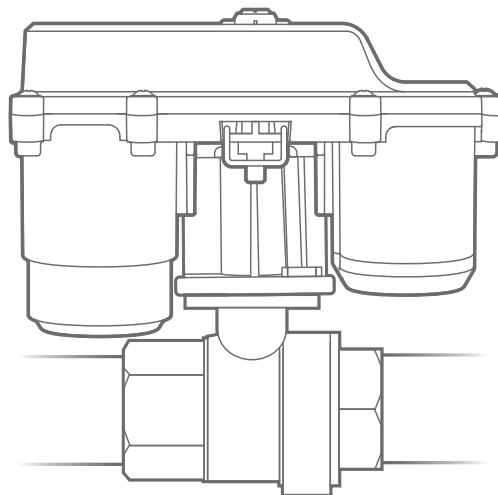
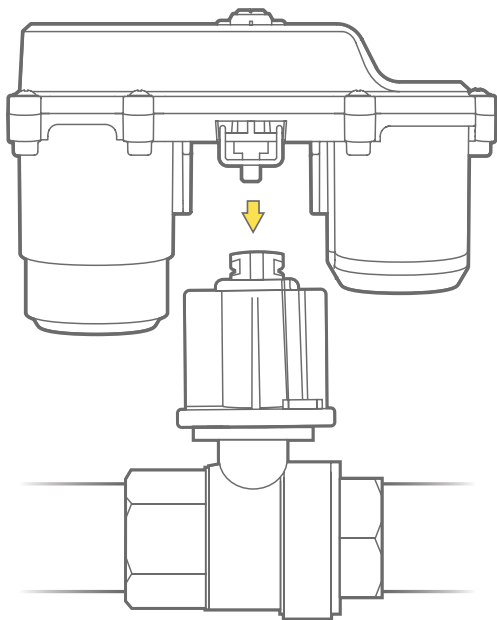
Brass actuator shaft in
open position



6

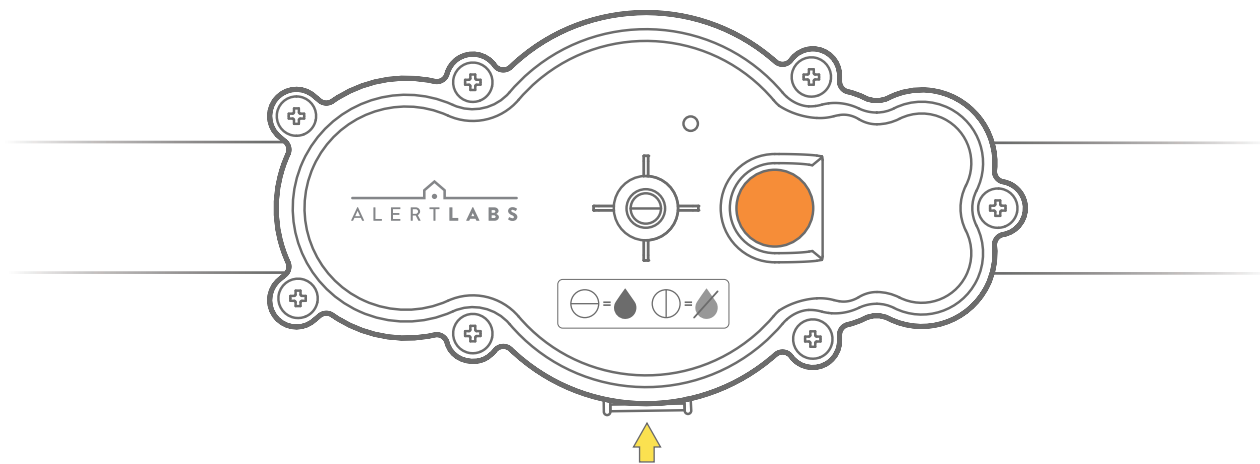
Mounting Shuttie

Make sure Shuttie is set to the open position. When the line of the brass actuator shaft is horizontal, Shuttie is in the open position. The metal locking pin must also be pulled out so that Shuttie can slide onto the adapter mount.



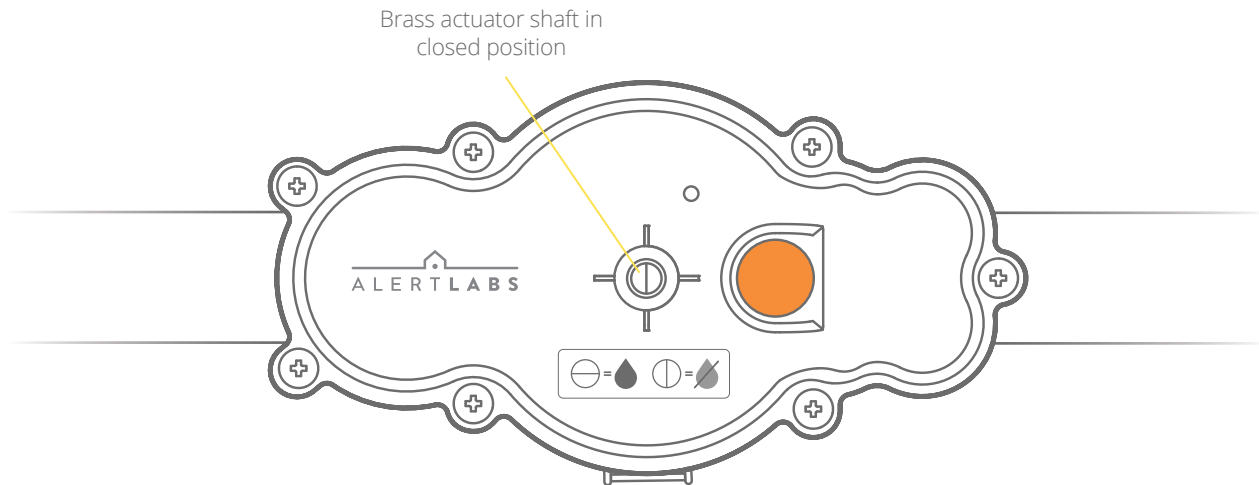
7

Slide Shuttie onto the actuator mount by inserting the brass actuator shaft into the rectangular slot.





8

Make sure that you have access to the metal locking pin once Shuttie is attached. Push the metal locking pin into its slots to lock the valve adapter in place.



9

Now you can test that valve will close. Press and hold the orange button for 5 seconds then release. The line of the brass actuator shaft will move to a vertical position to match . Turn on a water tap to confirm that water flow through the pipe stops. Test that the valve will open. Press and hold the orange button again for 5 seconds then release. The line of the actuator shaft will move to the horizontal position to match .

NOTE: When testing is complete, remember to turn the water tap off again.

TroubleShooting

How do I know if the water valve is open?

Open a water tap briefly to confirm that the valve is open and water is running.

How do I open the water valve if it's closed?

If the valve is closed at the beginning of the installation process, turn the valve 90 degrees with a wrench. After the adapter is installed you can use the T-shaped key that comes in the Shuttie box.

Need help?

For additional help, or in case of issue, visit **alertlabs.com/support** or contact us at **help@alertlabs.com**



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