

DROP

PROTECT WHAT MATTERS



Installation Manual

Home Protection Valve



INTRODUCTION

Thank You for Purchasing a DROP System!

We know you'll love your leak detection ability and water conservation benefits of your new DROP Water Management System from Chandler Systems. Protecting your home and conserving water are just a few of the ways that the DROP Water Management System can improve your water system.

Be sure to check out the dropconnect.com website periodically for more information about additional DROP products as they are released.



833.BUY.DROP
(833.289.3767)



dropconnect.com

To further help you operate your new DROP system, we have provided you with many other resources for you to learn more. Feel free to call Chandler Systems when you need additional help. We also have many resources located on our website including instructional videos, and images.

DROP Connect is also active on various social media pages! Feel free to follow us for the most up to date information and news!



@dropconnect

Privacy Statement

For more information about privacy, visit our [privacy policy](https://dropconnect.com/sites/default/files/DROP-Privacy-Statement.pdf) (<https://dropconnect.com/sites/default/files/DROP-Privacy-Statement.pdf>) online.

DROP Patents

For the most up-to-date list of patents, visit our patents on our website: <https://dropconnect.com/patents>.

FCC Compliance Statement:

https://dropconnect.com/sites/default/files/FCC_Compliance_Statement.pdf

Industry Canada Compliance Statement:

https://dropconnect.com/sites/default/files/Industry_Canada_Compliance_Statement.pdf

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CAUTION:

- Do not locate unit where it will be subject to temperatures below freezing.
- Do not use Vaseline or any petroleum-based lubricants on O-rings or rubber seals. Only use food-grade silicone lubricant.
- Do not use pipe dope or any sealant other than Teflon tape on threaded connections. Threads on the tool free connection nuts do not require any tape because they use an O-ring seal. Tape is only required on the inlet/outlet adapter fittings.

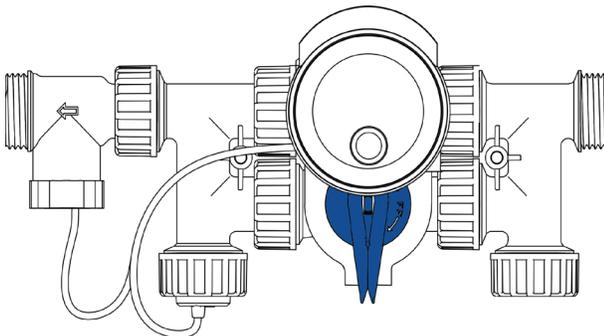
HOW TO USE YOUR SYSTEM

Your DROP Home Protection Valve uses advanced technology to protect your home from leaks, and save you money, all while providing years of trouble-free operation.

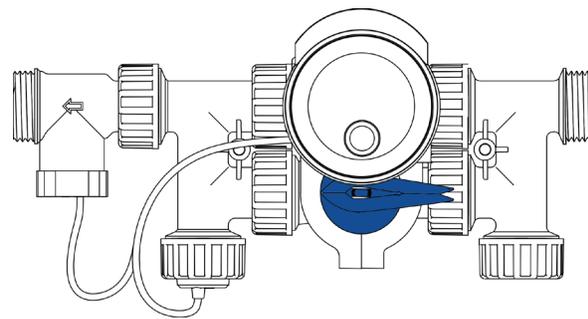
Additional Features You'll Find on Your DROP Home Protection System

- **Integrated Bypass Valve:** Allows you to take your system out of service if necessary.
- **Power Backup:** To continue to protect your home during a power outage
- **Water Usage Monitoring** - DROP monitors your water usage and provides real time information including: current water flow, peak flow today, daily average of the last 90 days, as well as many useful historical charts.
- **Automatically integrates with other components on your DROP System** - DROP is a water management system that integrates all of the water related devices in your home including: water softeners, backwashing filters, leak detectors, sump pump alarms, and many more to come!
- **Convenient User Interface on your Smart Phone or Tablet**
- **LED Light Codes:** Alert you to system status at a glance.
- **Temperature Monitoring:** Provides notice of high or low temperature conditions.
- **Pressure Monitoring:** To recognize problems with your plumbing system.

Manually Bypassing Your System: DROP's integrated bypass valve allows you to bypass your system should you ever wish to take it out of service. To bypass your system, turn the blue handle counter clockwise so handle is parallel with plumbing. To place your system back in service, turn the blue handle clockwise so handle is perpendicular with plumbing.



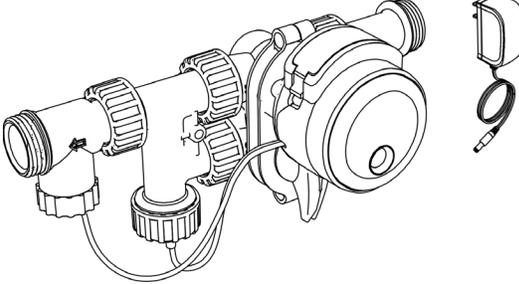
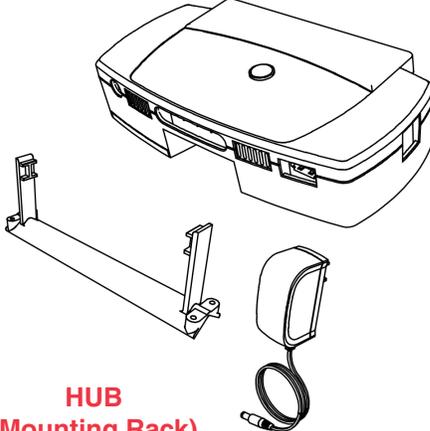
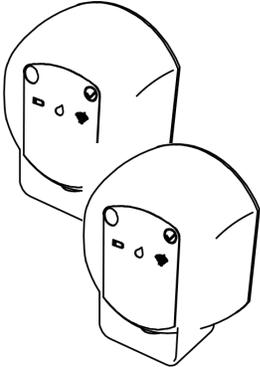
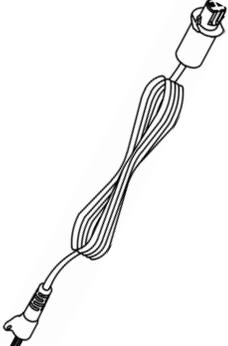
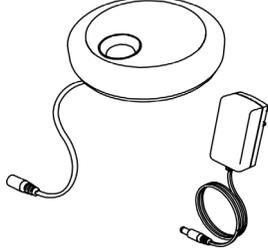
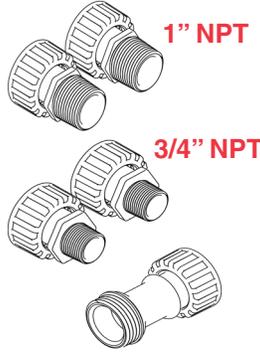
System In Service
Home is being protected



System Out of Service
Home is not protected



Contents of Carton

 <p>HOME PROTECTION VALVE</p>	 <p>HUB (Mounting Rack)</p>		
 <p>LEAK DETECTORS (Contains 2 or 4 and includes batteries)</p>	 <p>LEAK PROTECTION CABLE</p>	 <p>REMOTE</p>	 <p>CONNECTORS and CHECK VALVE ASSEMBLY</p> <p>1" NPT</p> <p>3/4" NPT</p>

Precautions

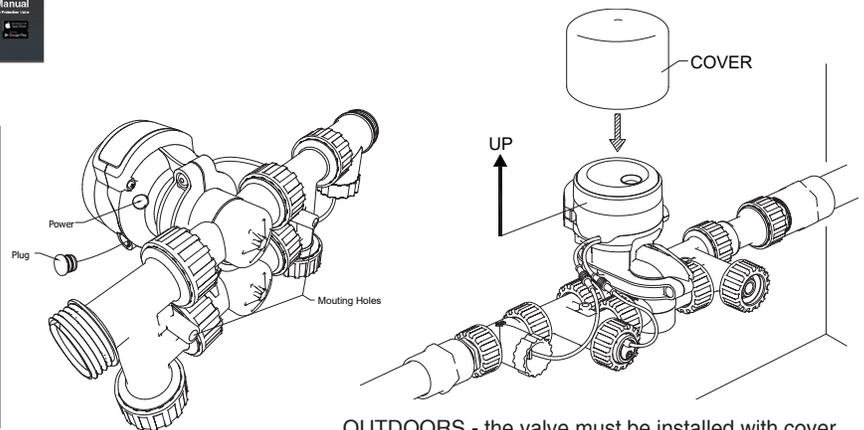
1 Read Manual



2 Outdoor Installation

Outdoor installation requires outdoor kit (P/N 20018X206)

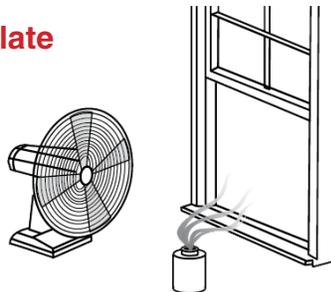
Includes port plug, vinyl cover & power supply



OUTDOORS - the valve must be installed with cover facing up.

3

Ventilate



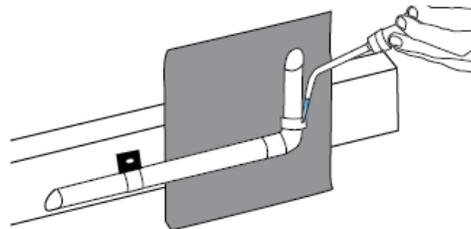
4

Use Eye Protection

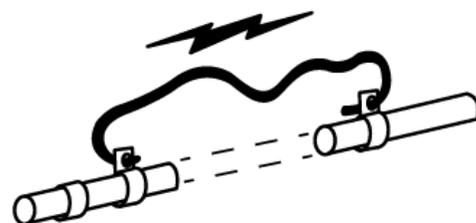


5 Protect nearby materials when soldering

Use only lead-free solder



6 If existing plumbing is copper, install grounding strap before creating plumbing gaps.

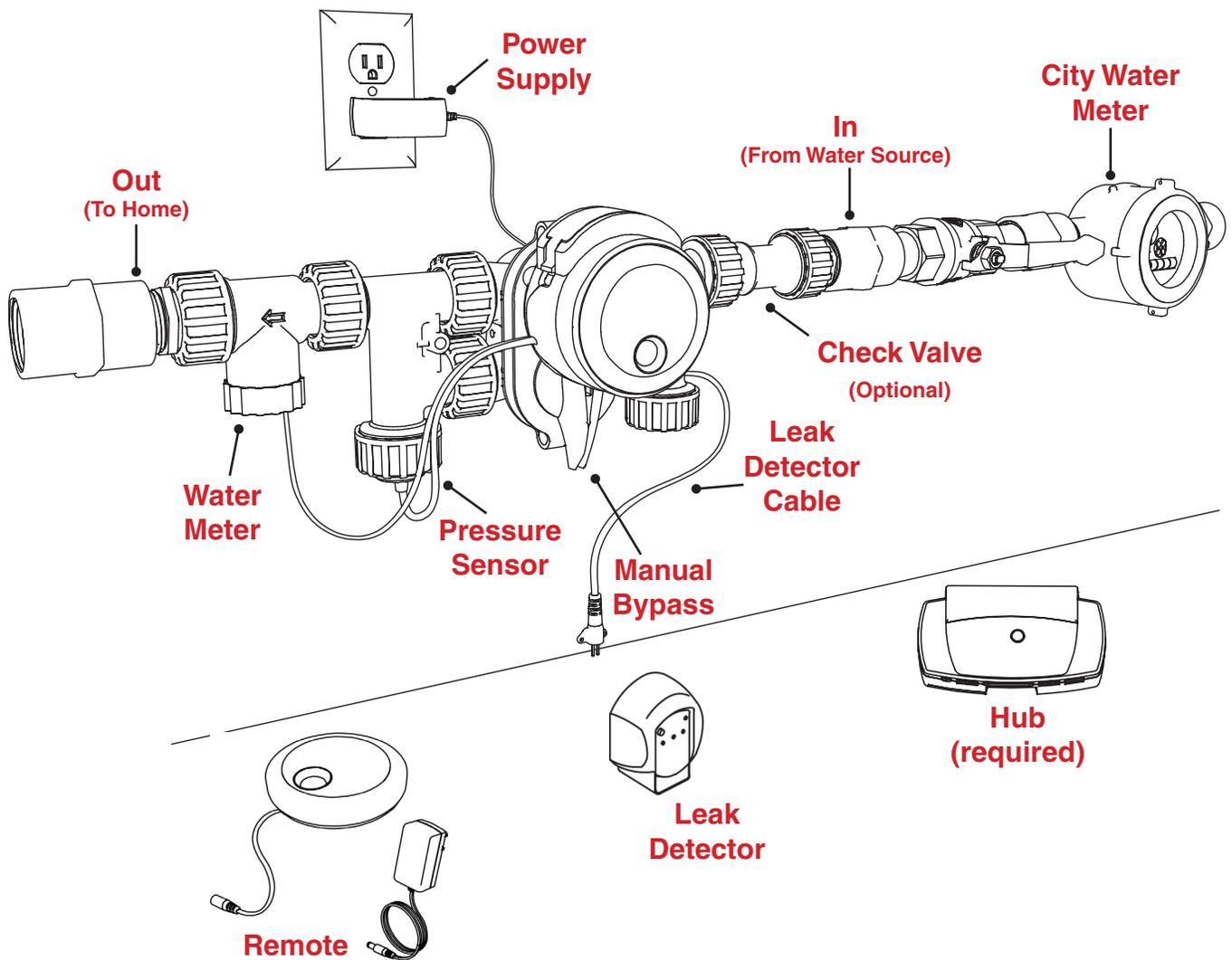




INSTALLATION INSTRUCTIONS

STEP 1: Plumb the Valve into your water supply

Unpack equipment. Make inlet and outlet connections choosing one of the provided 3/4" or 1" NPT fittings depending on your incoming pipe size.



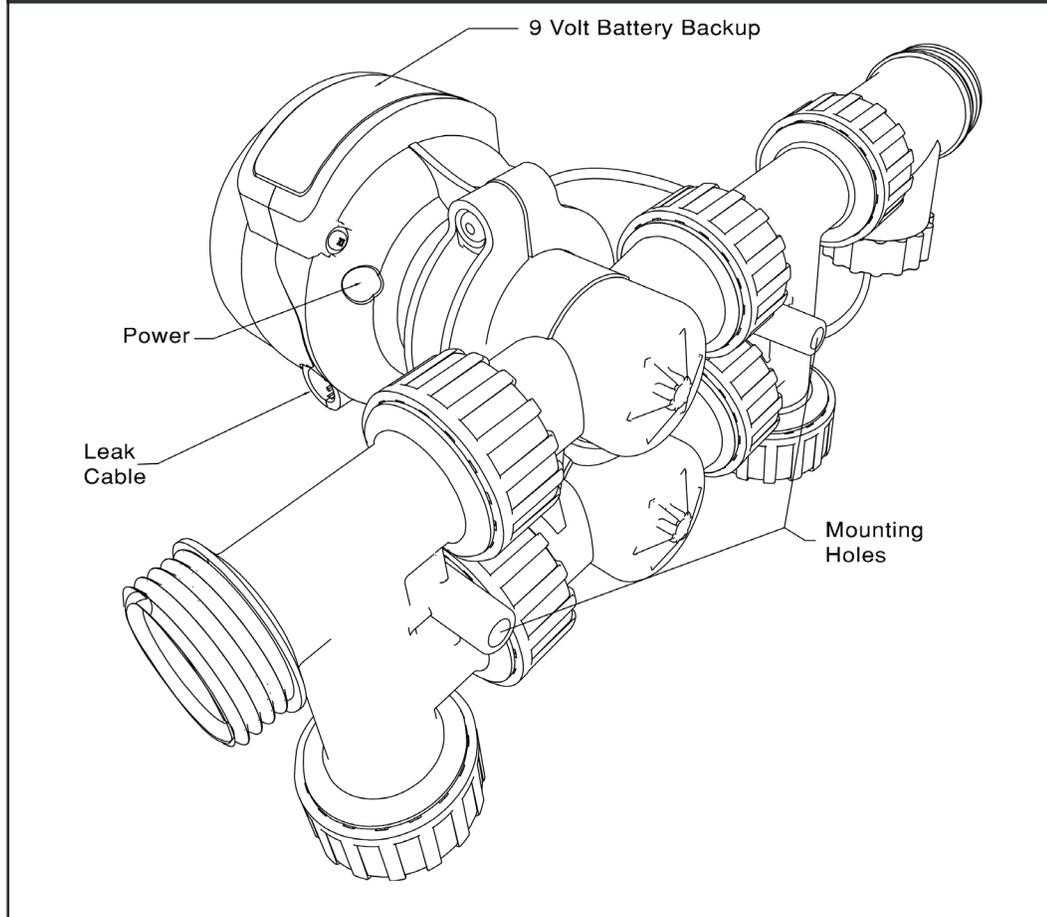
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Additional expansion tank for a water heater may be required with installation of the provided check valve.

Note: **INDOORS** - the valve may be installed in any orientation.
OUTDOORS - the valve must be installed with cover facing up.
Your installation may vary. Follow all local plumbing codes.

INSTALLATION INSTRUCTIONS

Mounting holes are sized for 1/4" X 2" mounting hardware.



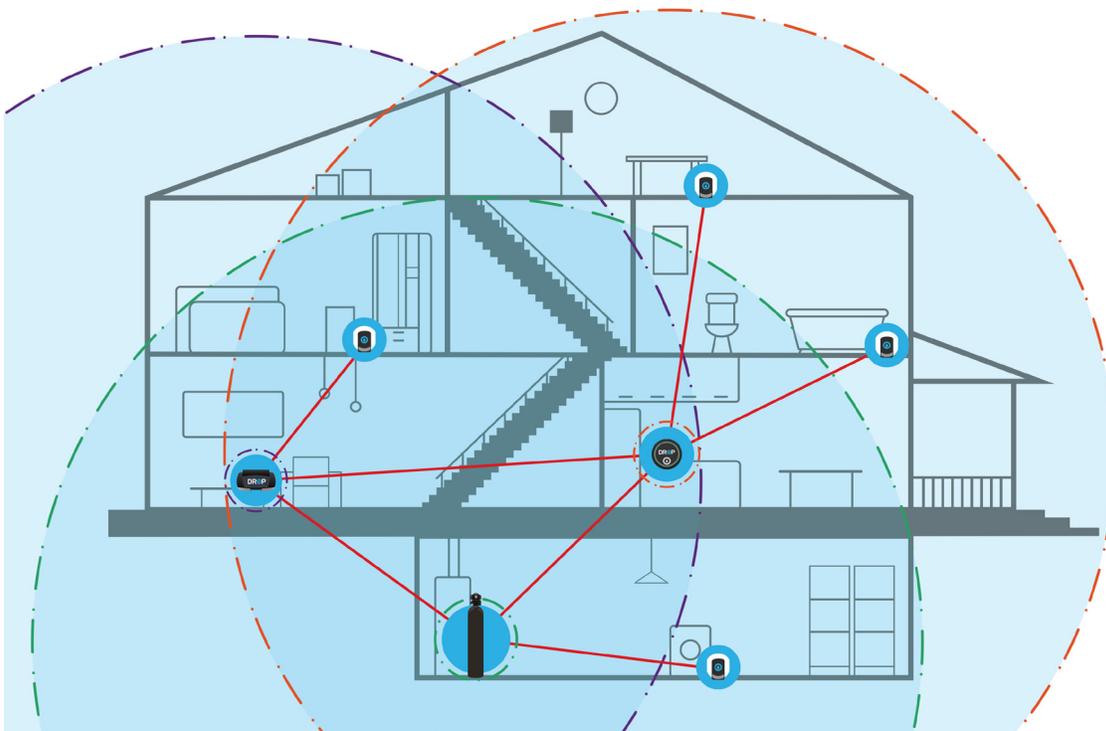
With the bypass valve in bypass position, turn on the main water supply. Open a cold soft water tap nearby and let run a few minutes or until the plumbing is free from foreign material (usually solder or debris from cutting the pipe) that may have resulted from the installation. Once clean, close the water tap.

INSTALLATION INSTRUCTIONS



STEP 2: Download the DROP Connect Mobile

STEP 3: Determine where you want to locate the HUB and REMOTE



As shown above, all DROP devices that plug into 120 volt outlets expand the DROP Link mesh network. When placing the DROP Hub and Remote, keep in mind that installing them in separate areas of the home will expand the network. This is important to consider if you have leak detectors that are located in far extremes of the home.

*

If you wish to connect your system to local WiFi for remote control and notifications, please install the DROP Hub in a location that has a good WiFi signal.

INSTALLATION INSTRUCTIONS

STEP 4: Follow Mobile Onboarding in the DROP Connect App

See Users Guide for detailed instructions

STEP 5: Add & Name Each Device

See Users Guide for detailed instructions

STEP 6: Place Leak Detectors

See "Leak Detectors" in Users Guide for detailed instructions



STEP 7: Install 9V Battery into your Hub & Home Protection Valve

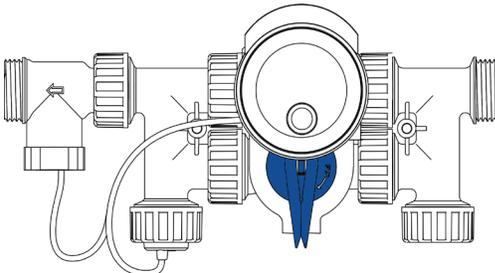


9 Volt Battery back up enables your valve to continue to protect your home from leaks during a power outage.



9 volt battery back up is recommended for DROP Hub.

STEP 8: Ensure Bypass handle on the Home Protection Valve is in "Protected" Mode



*System In Service
Home is being protected*

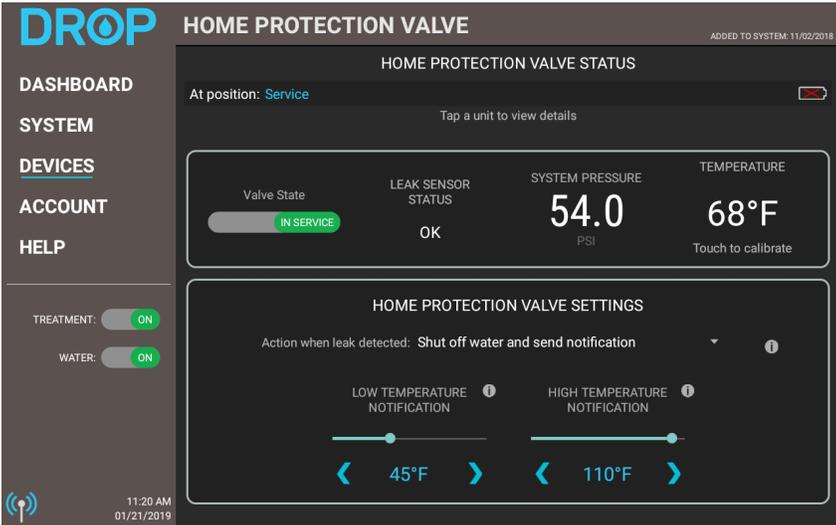
INSTALLATION INSTRUCTIONS



STEP 9: Configure the System



The DASHBOARD provides a system information overview



Set High and Low Temperature Notifications

DEVICES > HOME PROTECTION VALVE > STATUS
(Navigation description examples can be found in the User Guide)

The DEVICES screen allow you to customize how your system operates. See "Home Protection Valve" Section of Users Guides for more information.

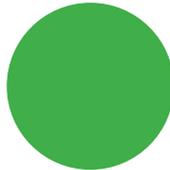
THE DROP REMOTE



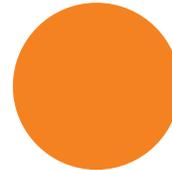
In addition to acting as a DROP Link mesh network extender, the DROP Remote has additional features:

At a glance the remote can provide the status of your water system through color codes.

Color codes for normal operation



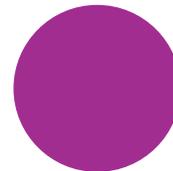
Water is in Service



Water is Shutoff



Slow blinking indicates you have a notification in your DROP App that has not been seen



Flashes indicate that the DROP Remote is communicating with other devices

To turn off water in your home, place your finger on the water DROplet button for about 2 seconds. Once the lights turn orange, remove your finger.

If your system is in the Shutoff mode and you would like to turn your water back on, place your finger on the DROplet button for about 2 seconds. When it turns to green, remove your finger and, your water will turn back on.

SYSTEM NOTES





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.

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