



Installation and User's Manual



Congratulations on the purchase of your new PipeBurst Pro Jr. Flood Control System!
 Please visit www.pipeburstpro.com for new components, features, tips and tricks, and troubleshooting information.

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Installation

1. Tool Requirements

Note: These tool requirements assume the TickerValve is already installed by a licensed plumber.

- 1.1. Electric drill, drill bits, and screwdriver tips to mount the VIP Jr. and FloTrol to your wall as desired.
- 1.2. Philips #1 or #2 hand screw driver for final hand tightening.
- 1.3. Utility knife.

2. Instructions

2.1. **EXTREMELY IMPORTANT: INSTALL TICKERVALVE AFTER ALL FIRE SUPPRESSION LINES THAT MAY BE IN PLACE FOR THE FACILITY.**

2.2. Use a licensed plumber to install the TickerValve in the facilities' inlet water line(s). Proper placement of the valve is extremely important to fully protect the facility from fire and water damage.

- Note: Insure that adequate pipe thread sealant is used during valve installation. A soap bubble test is recommended to detect leaks at the pipe connections.

2.3. Attach TickerValve actuator to the valve head and secure with 2 nuts provided.

2.4. Position the Valve Interface Panel Jr. (VIP Jr.).

- a. Verify that the TickerValve wires will reach the VIP Jr., the SideKick will reach from the VIP Jr. to the floor, and the AC adapter will reach from the VIP Jr. to the AC outlet.

2.5. Remove the four screws and the back cover from VIP Jr.

2.6. Cut out the necessary knockout slots with the utility knife.

2.7. Insert wires into the terminal block labeled "TICKERVALVE" on the circuit board shown below.

2.8. TickerValve & VIP Jr. wire designation:

- | | | |
|---------------|------------|---------|
| a. Terminal 1 | Red Wire | Motor + |
| b. Terminal 2 | Black Wire | Motor - |
| c. Terminal 3 | Blue Wire | Open |
| d. Terminal 4 | Green Wire | Closed |
| e. Terminal 5 | White Wire | Sense |

2.9. Plug the SideKick into the jack labeled "SIDEKICK SENSOR" inside the VIP Jr. Place stainless steel sensor on floor where desired.

2.10. Plug the AC adapter into the receptacle inside VIP Jr., labeled "+18 VDC IN".

2.11. If the system includes a FloTrol, and / or Base Hardwire Kit, connect those wires at this time. See Sections 5 & 0 for further connection information.

2.12. Thread all wires through the knockout slots and reattach the back cover of the VIP Jr. with the four screws removed in section 2.5.

2.13. Use the open holes located on the left and right side of the case to mount the VIP Jr.

- Note: Hardware not included

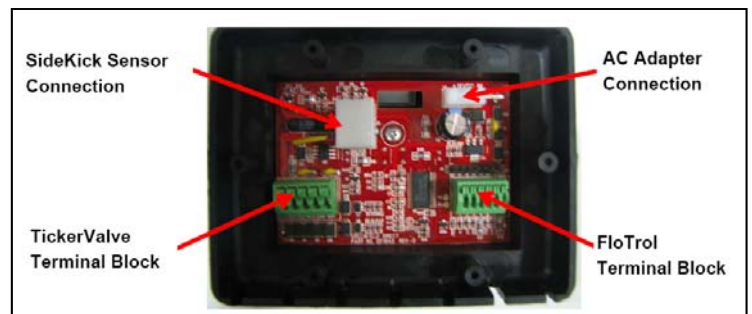
2.14. Plug in AC adapter to standard 120VAC outlet.

- a. Note: A battery backup, similar to those used on computer systems, may be used for uninterrupted protection.

2.15. The basic system is now installed, and the TickerValve can be controlled by pressing  on the keypad.



Common TickerValve Installation



VIP Jr. Connections

Setup and Operation

3. Valve Interface Panel Jr. (VIP Jr.)

3.1. Component Description

- a. The VIP Jr. is the central control and user interface for the PipeBurst Pro Jr. system. It operates the TickerValve and indicates the system state with two LEDs and an audible alarm. Shown here with the attached SideKick.

3.2. Button Function

- a.  WATER ON / OFF: Press  to manually open and close the TickerValve.

3.3. System Condition

- a. WATER ON: Green LED
- b. WATER OFF: Red LED
- c. ALARM: Red LED and audible alarm



VIP Jr. with SideKick

4. SideKick

4.1. Component Description

- a. The SideKick is a stainless steel water detection device that utilizes gold plated sense pins to signal the VIP Jr. if water is detected. This signal will close the TickerValve and provide protection against water damage.

4.2. Placement

- a. It is important to remember that water must reach the SideKick to activate the system, these locations should be:
 1. Clean and free of dirt and debris.
 2. The lowest point in the flow path of potential water leaks.
 - The system will not have the quick response desired if the sensors are placed on high spots or shielded from the flow of water.
 3. On a hard smooth surface, if possible.
 - Absorbent surfaces such as carpet will potentially increase the amount of water and time needed for the SideKick to send the signal to close the TickerValve.

5. FloTrol

5.1. Component Description

- a. The FloTrol is an optional hardwired remote control switch used to operate the TickerValve.

5.2. Installation

- a. Remove the four screws and the back cover from FloTrol.



5.3. Cut out the necessary knockout slots with the utility knife.

- a. Remove the necessary knockout slots with the utility knife and feed the cat 5 control wire through to the "FLOTROL" terminal block.
- b. Use cat 3, 5, or approved telephone solid strand control wire and connect to the

"FLOTROL" terminal block on both the VIP Jr. and FloTrol circuit boards. Terminals 1 through 5 must be connected. Wire terminal 1 to 1, 2 to 2, 3 to 3, 4 to 4, and 5 to 5. Terminal 6 is not in use

- c. Use the open holes located on the left and right side of the case to mount the FloTrol.
 - Note: Hardware not included

5.4. Button Function

- a.  WATER ON / OFF: Press  to manually open and close the TickerValve.

5.5. System Condition

- a. WATER ON: Green LED
- b. WATER OFF: Red LED
- c. ALARM: Red LED and audible alarm



FloTrol

6. Optional Base Hardwire Kit

6.1. Component Description

- a. The Base Hardwire Kit includes an Adapter Jack, 5 Wall Jacks, and 5 SideKicks.
- b. This option allows the user to expand coverage to multiple locations throughout the facility.
 1. Considerations and Recommendations
 - Generally, more sensors create a greater coverage area and leads to a quicker response to a potentially damaging leak.
 - Place the SideKick near any potential leak source. Some common appliances and fixtures known as likely leakers are: refrigerator ice makers, dishwashers, clothes washers, toilets, sinks, air conditioner condensate drains, showers, and water heaters, etc...

6.2. Installation

- a. Caution: always use solid strand approved hook-up wire.
- b. Remove the back cover of the VIP Jr. and locate the jack labeled "SIDEKICK SENSOR". Unplug the SideKick if one is installed and replace it with the lead wire for the "Adapter Jack".
- c. Mount the Adapter Jack securely as desired and plug in the lead wire jack from the VIP Jr.
- d. Option 1
 1. Mount wall jack plates as desired throughout facility and home run route cat 3, 5 or approved telephone solid strand wire back to Adapter Jack from EACH wall jack.
 - Note: We recommend installing a SideKick sensor wall plates jack in the same room as the VIP Jr. as this is usually a key potential leak area of the entire structure.
 2. Terminate wall jack wires under respective terminals to Adapter Jack and fasten securely.
 - Note: Installing too many wires from multiple wall jacks under each Adapter Jack screw may result in sporadic performance. If you are concerned about this, take precautions by using B-Caps or wire nuts to gang wires together outside of Adapter Jack and then pigtail one wire into each Adapter Jack terminal respectively.
- e. Option 2
 1. Connect the Black and Yellow wires from the Adapter Jack to a 66 style IDC punch down block (not included).
 2. Home run the signal wire from the punch down block to each Wall Jack located throughout the facility.
 3. Fully insert each SideKick connector into the Wall Jack there should be no movement in or out when the wire is pulled and pushed.
 4. Test each SideKick by placing a small amount of water between the gold sense pins. The VIP Jr. should close the TickerValve and signal with an audible alarm, if it does not check the connections at the wall jack and the punch down block to ensure contact was made.
 - Note: SideKick must be dried out after testing before resetting of the system is possible.

Troubleshooting

7. What To Do When Water Is Detected

- 7.1. When the SideKick detects water the valve will close, the "Water Off" red LED will light, and the alarm will sound.
- 7.2. Unplug the VIP Jr. AC adapter to stop the alarm; the valve will remain closed.
- 7.3. Locate the source of the leak and repair
- 7.4. Dry each SideKick that has detected water
- 7.5. Plug in the VIP Jr. AC adapter
- 7.6. Open the TickerValve and return to normal operation

8. The TickerValve Will Not Open And / Or Close

- 8.1. Ensure the AC power is plugged into the wall outlet and the jack on the VIP Jr., see section 2.10. If power is present one of the LED's on the VIP Jr. will be showing.
- 8.2. Ensure the wires are fully inserted into the terminal block in the order described in section 2.8. Pull each of the 5 wires individually to make sure the contact has been made. If a wire pulls away from the terminal block a proper connection has not been made and the wire can be pushed back into the proper slot until it cannot be pulled out.
- 8.3. If power is present and the wires are secure and in the correct order check the valve for free operation. Remove the two nuts from the bottom of the actuator (the black box) and open and close the valve with the manual handle.
- 8.4. If problems remain contact the factory for service.

Support:

GreenField Direct, LLC
14015 238th Street
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<http://www.greenfielddirect.com/contact.php>
Fax: (402) 944-2402
Phone: (800) 246-LEAK (800-246-5325)
Operating Hours: Monday - Friday, 9:00am - 4:00pm CST (Excludes Major Holidays)

Warranty - PipeBurst Pro Products 7 Year Limited Warranty

GreenField Direct, LLC of 14015 238th St, Greenwood, NE 68366 ("Warrantor"), warrants to the original purchaser and installed location of the PipeBurst Pro, manufactured by Warrantor, and to any person to whom such originally installed equipment is transferred to via the transfer of said real property that original installation was made, that such equipment shall be free from defects in materials and workmanship during a two (2) year period; additionally the electric valve actuator enclosure and its' electronic components inside, shall be free from interior moisture damage for a period of seven (7) years; both periods commencing upon the receipt of order date for such equipment from the original purchaser thereof; (the "warranty periods").

Warranty Details, Exclusions and Limitation of Liability

I. Warrantor's obligation under this warranty is specifically limited to replacing or repairing its equipment or parts thereof which are shown by Warrantor's examination to be in a defective condition attributable hereunder to Warrantor. To qualify for this warranty, alleged defective equipment MUST have been officially registered with the Warrantor and MUST be returned to Warrantor at its address listed below, transportation charges prepaid, within a reasonable time after discovery of an alleged defect, and in no event later than thirty (30) days beyond the expiration of the warranty period. If, as a result of Warrantor's examination of the returned equipment, Warrantor concludes that a product defect attributable hereunder to Warrantor exists, Warrantor shall cure such defect within a reasonable time, after such examination. Normal, in-factory expenses in curing such defect, except for transportation charges and shipping expenses incurred in delivering such equipment to *and* from Warrantor, shall be paid by Warrantor. All claims must be made directly to Warrantor along with proof of purchase. In the event that a defect in such equipment is found to be attributable hereunder to Warrantor and Warrantor is unable to provide replacement and repair is not commercially practicable or cannot be made in a timely manner, Warrantor may elect, at its sole discretion, to refund to claimant the purchase price of such equipment actually received by Warrantor, less reasonable depreciation, in complete discharge of its obligations hereunder. If Warrantor elects to comply with this warranty by means of such refund, as a condition precedent to such compliance, the claimant shall return such equipment to Warrantor free and clear of liens and other encumbrances.

II. THE ORIGINAL PURCHASER OF SUCH EQUIPMENT, ANY PERSON TO WHOM SUCH EQUIPMENT IS TRANSFERRED, AND ANY PERSON WHO IS AN INTENDED OR UNINTENDED BENEFICIARY OF SUCH EQUIPMENT, SHALL NOT BE ENTITLED TO RECOVER FROM WARRANTOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR INJURY TO PERSON AND/OR PROPERTY RESULTING FROM ANY DEFECTIVE EQUIPMENT MANUFACTURED BY WARRANTOR.

III. Misuse or neglect (including failure to provide reasonable maintenance) of, or accident or unauthorized repairs or alterations to, such equipment, shall release and discharge Warrantor from any obligation under this warranty or otherwise. During the aforementioned warranty period, customer expressly waives with respect to such equipment all implied warranties of merchantability and all implied warranties of fitness for a particular purpose as such legal rights are limited to the terms of Warrantors Limited Warranty. AFTER EXPIRATION OF THE WARRANTY PERIOD, WARRANTOR EXPRESSLY DISCLAIMS WITH RESPECT TO SUCH EQUIPMENT ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. THERE IS NO WARRANTY OF ANY NATURE MADE BY WARRANTOR BEYOND THAT WHICH IS CONTAINED HEREIN.

IV. The PipeBurst Pro 7 Year Limited Warranty is governed by Nebraska law. The venue and jurisdiction for any disputes are agreed by the Purchaser and Warrantor to be Saunders County, Nebraska. NO PERSON HAS AUTHORITY TO AMEND OR MODIFY THIS WARRANTY. If any provision of this Warranty shall be found to be illegal, invalid, or unenforceable under present or future laws, such provision shall be fully severable and the remaining provisions shall remain in full force and effect. Any provision of this Warranty held illegal, invalid, or unenforceable shall remain in full force and effect to the extent not so held. In lieu of the provision held illegal, invalid, or unenforceable, there shall be automatically added as part of this Warranty a provision as similar in its terms to such invalid provision as may be possible and may be legal, valid, and enforceable.

V. Warrantor reserves the right to change the parts or design of its products from time to time without notice, and with no obligation to maintain spare parts or to make corresponding changes in the products previously manufactured. Product registration must be completed to activate warranty; to register for your PipeBurst Pro 7 Year Limited Warranty go to the Register Your System page at www.PipeBurstPro.com.

Warranty Disclaimer - GreenField Direct, LLC is not responsible for any failure if: (1) the failure resulted from deterioration or failure of project materials other than the PipeBurst Pro or PipeBurst Pro Jr., or to improper use or installation of an element of the project other than the PipeBurst Pro or PipeBurst Pro Jr.; (2) the PipeBurst Pro or PipeBurst Pro Jr. has been used or installed other than in complete accordance with the installation procedures specified by GreenField Direct, LLC, or has been altered or modified in any way; or (3) the failure is due to an act or condition outside of the control of GreenField Direct, LLC, including but not limited to tornado, hurricane, earthquake or other Acts of God. Further, the PipeBurst Pro Year Limited Warranty extends to any person to whom such originally installed equipment is transferred to via the transfer of said real property that original installation was made, for so long as such person(s) own that PipeBurst Pro or PipeBurst Pro Jr. Any claim for failure of a PipeBurst Pro or PipeBurst Pro Jr. must be made within a reasonable time after discovery of an alleged defect, and in no event later than thirty (30) days beyond the expiration of the warranty period to: GreenField Direct, LLC 14015 238th Street Greenwood, NE 68366 <http://www.greenfielddirect.com/contact.php>

FCC Disclaimer

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.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.