

Congratulations on your purchase of the **Valvin V100B** by Herring Group Inc., which is designed to stop toilet bowl overflow events. Upon detection of an impending toilet bowl overflow, the V100B will automatically shut off the water supply to the toilet. The benefits of stopping toilet bowl overflows can vary from the elimination of cleanup efforts to eliminating the significant damage and restoration costs when a toilet overflow never stops overflowing.

This manual will provide you with the needed information for the proper installation and operation of your new VALVIN V100B fill valve.

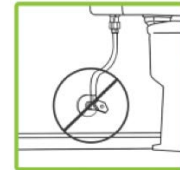
Note: We recommend you leave this manual or a copy accessible to the owner/user, in case quick reference is desired.

This Package Contains:

- A) Fill Valve
- B) Clear Refill Tube
- C) Controller
- D) Hook & Loop (controller attachment strip)
- E) Wire Clips (with adhesive strip)
- F) Seat Spacer
- G) Bowl Sensor (comprised of 4 separate parts):
 - Bracket (adjustable): For mounting bowl sensor to the toilet with seat bolt and seat nut.
 - Seat Bolt
 - Seat Nut (an essential slot for wire)
 - Bowl Sensor/Float

VALVIN FILL VALVE INSTALLATION INSTRUCTIONS

- 1) Turn off the water supply valve.
- 2) Flush toilet and remove the remaining water from the tank.
- 3) Remove the water supply hose from the bottom of the pre-existing fill valve (a). There should be no reason to remove the water supply hose at the wall shutoff valve (b).
- 4) Remove the locknut (underside of the tank) and lift the old fill valve out of the tank. (see the third illustration)



Note: You may need a small bucket under the fill valve unit to catch water still left in the toilet tank.

- 5) **ADJUST THE VALVIN FILL VALVE HEIGHT (see steps below):**
 - Snap free the two tabs on the lock tab ring (downward) as seen in the 1st of the three illustrations seen below, adjacent to the downward pointing arrow.
 - Rotate the lower portion of the fill valve’s shaft “clockwise” (it will rotate about 1/8 turn and stop). The upper and lower shafts will now telescope to increase or decrease for height adjustment. Determine the proper height adjustment by referencing the pre-existing fill valve’s height.
 - Rotate the lower portion of the fill valve’s shaft back “counterclockwise” to the desired height position, then snap back in place the two tabs on the lock tab ring (upward) as seen in the 3rd of the three illustrations, adjacent to the upward pointing arrow.

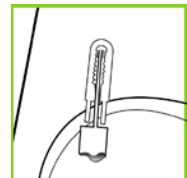
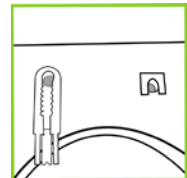


- 6) **Installing the V100B fill valve in the tank:** Recheck the height and ensure that the large rubber gasket is in place at the bottom of the lower fill valve shaft (now remove lower stem washer and lock nut). The large rubber gasket is to be installed with the flat side up. Place the V100B fill valve in the tank, and then loosely install the lower stem washer and lock nut on the underside of the tank allowing for fill valve rotation. Rotate the V100B fill valve so that the fill valve’s small nipple (with clear refill tube) faces approximately towards the toilet’s overflow pipe. Press down on the V100B and **HAND TIGHTEN** the lock nut on the underside of the tank.

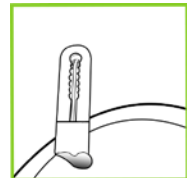
- 7) Place the tip of the clear refill tube into the top of the drain pipe and fasten in place with the clip. You may have to trim the length of the refill hose and allow some arch when it is connected to the top of the fill pipe.
- 8) Reconnect the water supply hose.
- 9) Install the 9V battery in the V100B's "controller" from the bottom side.
- 10) Place the controller (with the Hook & Loop Strip/Velcro Strip) on the outside edge of the tank on a side nearest the fill valve (Preferred Method). Move the controller to a location, so the LED is visible, and the reset button (identified as PRESS HERE) is accessible. If the controller is to be wall-mounted (Optional Method), ensure that the flat connecting cable is fit correctly over the top edge of the tank so that it is not harmed when the tank lid is replaced.
- 11) Turn on the water supply valve.
- 12) Press down on the top of the V100B fill valve's float lever & adjustment screw to reset the latch (**Press to Reset**). Note that the shutoff plunger may actuate after a short time because the electronics have not yet been reset. You may have to repeat this reset more than one time to fill the tank.
- 13) Turn the float lever's adjustments screw to obtain a water level that matches the desired water level (commonly 1/2 inch below the top of the overflow pipe).
- 14) Press and hold the reset button (identified as PRESS HERE) on the VALVIN controller until an audible beep is heard (about 4 seconds). The V100B controller and fill valve are now functional. Next step to install the "Bowl Sensor."

V100B BOWL SENSOR INSTALLATION INSTRUCTIONS

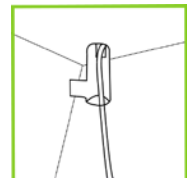
- 15) Remove toilet seat. Place the bracket and spacer over the toilet holes as shown below — bracket to the left side of the toilet bowl.
- 16) Take the bowl sensor's float section and ensure the bowl sensor wire runs through the bowl sensor bracket.
- 17) Next, gently feed the bowl sensor wire's plug through the seat bolt hole on the V100B fill valve side of the toilet (Left Side Seat Hole).



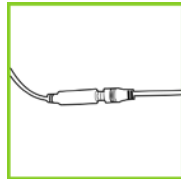
Place cable wire in the middle. Snap the bowl sensor and bracket together. Pull the sensor wire from underneath the hole through the locking nut provided. The cable runs through the slot to avoid pinching as shown below. Reinstall the toilet seat and use the long screw provided to tighten the seat down. Be careful not to have the wires pinched. Use the same screw for the right hole. Make sure the U Shape spacer is installed for seat balance. (See U Spacer picture at instruction 15).



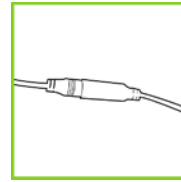
Make sure the wire is feeding through the slot and not pinching against anything. At this time, you should be able to release the bowl sensor wire, and the bowl sensor should hang loosely inside the rim.



- 18) Insert the bowl sensor plug into the controller's mating plug. It should only fit with the correct orientation. Looking at the female connector and the male connector will make it visibly obvious to connect and insert, please make sure to **connect as far in as possible** (No Gap between the connection) for the bowl sensor to work correctly. **THIS IS VERY IMPORTANT TO ASSURE A WORKING UNIT.**



Incorrectly inserted (Gap)



Correctly inserted (No Gap)

Gently place the toilet seat back on the toilet while holding the wire firmly against the front of the bolt hole.

- 19) Carefully slide the seat bolt down through the bolt hole while continuing to hold the wire firmly against the front of the bolt hole. **WARNING: MAKE SURE THE CABLE IS IN THE MIDDLE OF THE MOUNTING BRACKET AND NOT BEING PINCHED BY THE TOILET SEAT.**
- 20) Screw the seat bolt into the seat nut provided (with the slot facing towards the front) by holding the seat nut and continuing to screw the bolt into the nut (while nut does not turn and stays facing forward until tight).
- 21) Insert the other seat bolt and lift up on the non-bowl sensor side of the seat, then slide the toilet “seat spacer” (a U-shaped bracket) onto the bolt (between the bowl and the seat).
- 22) Put in “System Ready” state: **Make sure the V100B fill valve’s float lever & adjustment screw has been pressed down to reset the latch.** If it’s not in the down position it may have popped up if the bowl sensor was activated during installation). If this is the case, reset the Controller by pressing the reset button (identified as PRESS HERE) on the VALVIN controller until an audible beep is heard (about 4 seconds). To confirm your V100B is in the “System Ready” state, press the reset (PRESS HERE) button on the controller until the LED lights green (about 1 second). The V100B controller and fill valve are now functional and ready to stop toilet bowl overflow events.
- 23) Again: The “reset operation” is required each time the V100B has stopped a toilet bowl overflow. Simply press down the float lever & adjustment screw, then press the PRESS HERE button on the controller until an audible beep is heard (about 4 seconds). Press the reset (PRESS HERE) button for one second and make sure you have a System Ready green light and make sure to press the “**Push To Reset**” on the fill valve lever to get water back in the tank again. **See Fill Valve Operating Instructions Below to Turn Water Back On.**

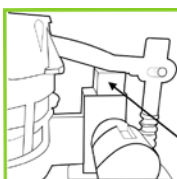
V100B FILL VALVE OPERATING INSTRUCTIONS

The operation of the V100B is fully automatic and only requires manual resetting after an automatic shutoff event.

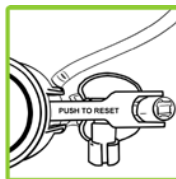
Your V100B controller’s multi-colored LED will identify any one of the following conditions:

- Bowl Overflow (a fault)
- Low Battery (a fault)
- System Ready (status)

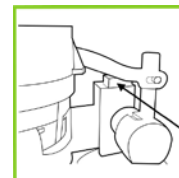
When any one of the two faults listed above occurs, the V100B trips the lifting **plunger beneath the fill valve** float’s top lever, thereby causing the fill valve to close regardless of the water level in the bowl or tank. To turn the water back on **press down on the fill valve lever** as shown below. Once the plunger locks down in its home position, the fill valve will work again normally until another fault is detected.



Water Off (Plunger Up)



Press down to Reset



Water is back on (Plunger Down)

The specific fault that caused the V100B to turn off the water is identified by both the color of the LED display and also by a flash code count (the number of times the LED flashes). These faults are identified by the LED once (at the time of fault) and can be seen again anytime the “PRESS HERE” button is pressed for 1 second.

V100B CONDITION CODES

FAULT	NO. OF FLASHES	LED COLOR	ACTION
Bowl Overflow	3	Blue	Remove Blockage then Reset
Low Battery	1	Red	Replace Battery then Reset
System Ready	1	Green	No Action Required

IMPORTANT RESET INSTRUCTIONS (Steps after fault detected):

- a) Determine the status of the system by pressing the reset (PRESS HERE) button for one second on the controller until the LED flashes (See table above).
- b) Resolve the fault that was detected: If bowl overflow, simply remove the bowl blockage then reset per steps 22 and 23. If low battery, simply installs a new battery then reset per steps 22 and 23.
- c) Press the reset (PRESS HERE) button for **four (4)** seconds. Press again and make sure you have a System Ready Green light.
- d) Remove the tank lid and press down on the fill valve’s float lever until the lifting plunger below the lever latches in place in the down position allowing water back in, then replace tank’s lid. **See Illustration above to turn the water back on.**

SUMMARY OF LIMITED WARRANTY

Herring Group Inc. (“Manufacturer”) warrants solely to the original purchaser (the "Buyer") of this [Valvin™ V100B] (the "Product") that the Product will be free from material defects in workmanship and materials under normal use and service for a period of 1 year from the date of purchase. There is NO WARRANTY in case of faulty maintenance, abuse, misuse, accident, or other damages; failure to follow Valvin’ instructions. Improper installation (including without limitation, over-tightening, manual break wire); or other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from poor water conditions, chemicals, or any other circumstances over which HGI INC. has no control. All costs of removal, transportation, and reinstallation to obtain warranty service shall be paid by the consumer.

For Further Information, please contact: info@floodingsensors.com

