

Congratulations on your purchase of the **Valvin V100B** by HERM International, which is designed for the purpose of stopping 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) (1) Fill Valve
- B) (1) Clear Refill Tube
- C) (1) Controller
- D) (2) Wire Clips (with adhesive strip)
- E) (1) Seat Spacer
- F) (1) Bowl Sensor (comprised of 4 separate parts):
  - Bracket (adjustable): For mounting bowl sensor to toilet with seat bolt and seat nut.
  - Seat Bolt
  - Seat Nut (with important slot for wire)
  - Bowl Sensor/Float

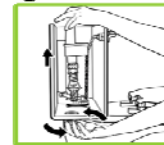
**VALVIN FILL VALVE INSTALLATION INSTRUCTIONS**



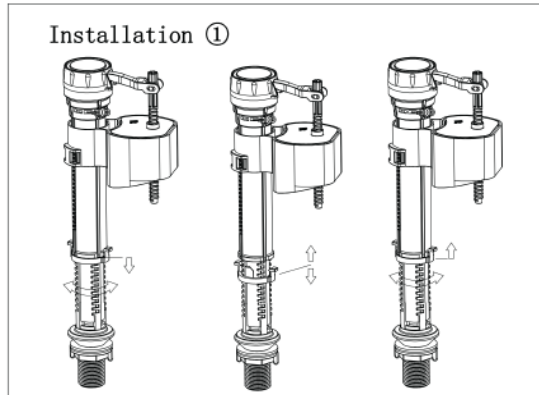
- 1) Turn off the water supply valve.
- 2) Flush toilet and remove remaining water from tank.



- 3) Remove the water supply hose from the bottom of the old 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 tank) and lift the old fill valve out of the tank.
- 5) **ADJUST THE VALVIN FILL VALVE HEIGHT (see steps below):**
  - Snap free the 2 tabs on the lock tab ring (downward) as seen in the 1<sup>st</sup> of the 3 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 2 tabs on the lock tab ring (upward) as seen in the 3<sup>rd</sup> of the 3 illustrations seen below, adjacent to the upward pointing arrow.



- 6) **Installing the V100B fill valve in tank:** Recheck the height and insure that the large rubber gasket is in place at the bottom of the lower 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 underside of 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 underside of 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) Hang the controller (with use of controller's bracket) on the outside edge of the tank on a side nearest the fill valve. 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, insure that the flat connecting cable is fit properly 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. 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.

The bowl sensor typically comes packaged being attached to the adjustable mounting bracket. 

- 16) Take the bowl sensor's float section and ensure the bowl sensor wire runs through the bowl sensor bracket. Next gently feed the bowl sensor wire's plug through the seat bolt hole on the V100B fill valve side of the toilet. Pull the sensor wire from below the toilet rim until the bowl sensor rests snugly against the inside rim of the toilet bowl. At this time you should be able to release the bowl sensor wire and the bowl sensor should hang loosely inside the rim.
- 17) Plug the bowl sensor plug into the controller's mating plug. It should only fit with the correct orientation, so do not force it. Looking at the 2 pins on one connector and the mated ports on the other connector will make it visibly obvious the correct rotation.
- 18) 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.
- 20) Screw the seat bolt into the seat nut (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).

**Warning:** Replacing the toilet seat must be done carefully to avoid pinching of wire/cable.

- 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 is no longer 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 in their tracks.
- 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.

### 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 following conditions:

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

When any one of the two faults listed above occur, 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.

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 on the controller until the LED flashes (3 blue flashes for Bowl Overflow or 1 red flash for Battery Low).
- 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 install a new battery then reset per steps 22 and 23.
- c) Press the reset (PRESS HERE) button for one second 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 latches in place allowing water back in place, then replace tank’s lid.

## LIMITED WARRANTY

If this Valvin product, when used for its intended purpose, fails due to defects in materials or workmanship over a period of one year from the date of purchase, please return the item to HERM INTERNATIONAL (at your expense) where, at our option, we will exchange or recondition the item free of charge. HERM INTERNATIONAL shall not be responsible for any incidental or consequential damages, including without limitation, damages 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 HERM INTERNATIONAL has no control. This includes damage that may occur from failure of the device to prevent damage or loss due to the failure or malfunction of any valve or appliance to which it is attached. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product. **HERM INTERNATIONAL MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED EXCEPT AS PROVIDED IN THIS LIMITED WARRANTY.** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Improper installation shall void this warranty

No parts of this unit can be repaired or replaced other than by the manufacturer.

For Further Information, Sales, and Technical Support or Warranty Replacement information, please contact:

HERM INTERNATIONAL CORP 13452 LA PAT PLACE Westminster, Ca 92683

Phone: (714) 594-7261

Web Site: [WWW.BUYVALVIN.COM](http://WWW.BUYVALVIN.COM)

Hours of Operation

Monday through Friday 9am to 5pm PT

US & Canada Sales & Information Contact:

Aqua Managers, Inc.

949-362-2959 Phone

949-362-2958 Fax

[bob@aquamanagers.com](mailto:bob@aquamanagers.com)

[info@aquamanagers.com](mailto:info@aquamanagers.com)

[www.aquamanagers.com](http://www.aquamanagers.com)

