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Introduction

The proprietary, patent-pending VistaPure AutoFill accessory kits for STAT/M and BRAVO keep autoclave reservoirs filled with distilled-quality water at all times—eliminating the need to purchase and store distilled water, avoiding spills while filling autoclaves manually, and preventing cycle-fault errors caused by forgetting to fill the reservoirs. VistaPure AutoFill accessory kits can be installed easily in just a few minutes.

If a VistaPure system is NOT yet installed:

First, install a VistaPure system in the base cabinet of the sterilization center, following the directions included with the VistaPure system. Then, proceed with the installation of the AutoFill device as described in this manual.

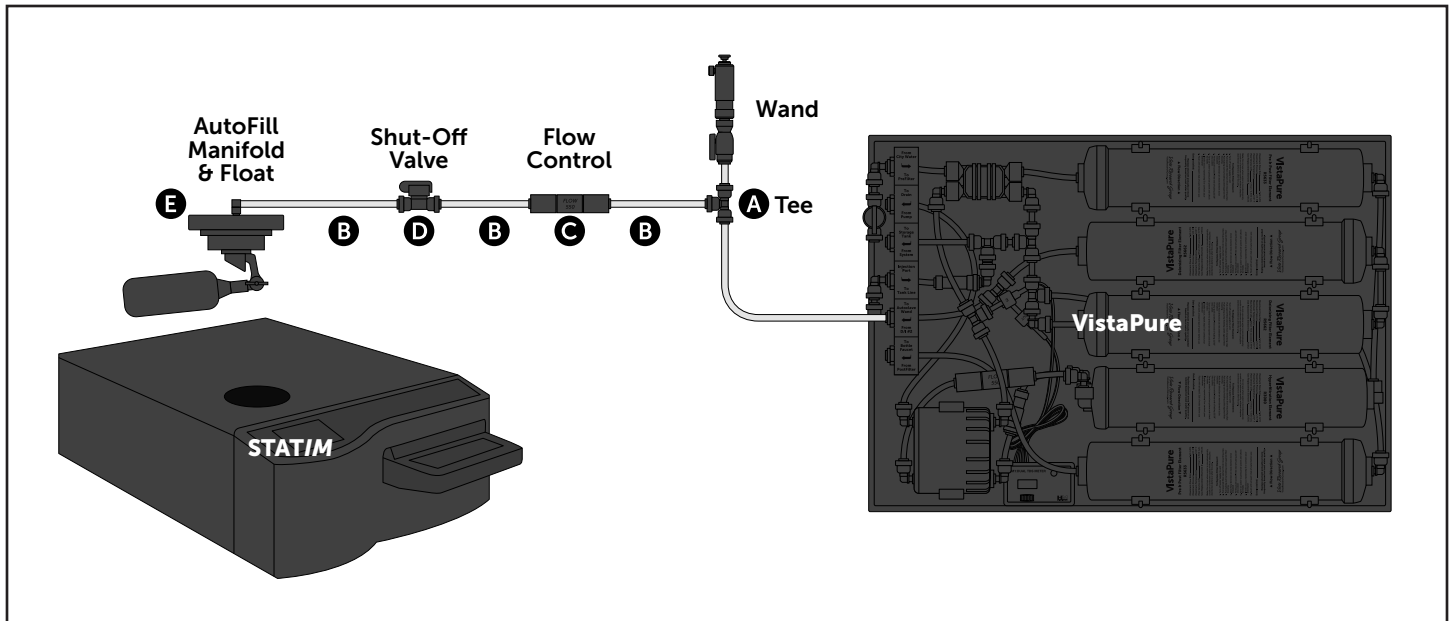
Please note:

AutoFill device should be replaced after five years or 5,000 cycles, whichever comes first.
Turn off the water supply valve to the AutoFill device at the end of each workday.



Installing AutoFill on a STAT/M

The VistaPure AutoFill for STAT/M device (S3020) can be installed on any new or older model 2000 or 5000 STAT/M autoclave as follows:



A 12-foot length of clear polyurethane tubing is already attached to the AutoFill manifold for your convenience. If the desired distance between the connection to the VistaPure and the STAT/M is greater than 12 feet, simply order a longer length of the clear polyurethane tubing, as the distance from the VistaPure to the STAT/M is not limited, except by the feed tubing.

- 1 Turn off the city water feed valve that supplies water to the VistaPure system.
- 2 Turn off the tank valve on the VistaPure water storage tank.
- 3 Discharge water from the bottle faucet or autoclave wand to relieve pressure from the system.
- 4 Install the 1/4" tee (A) in the VistaPure line labeled "To Autoclave Wand" as shown in the illustration. Simply cut the tubing at the desired location, install the 1/4" tee, then push the clear 1/4" polyurethane tubing included with the AutoFill device (B) into the outlet of the tee.
- 5 Install the flow-control device (C) and shut-off valve (D) wherever desired by cutting the tubing (making certain the cuts are clean and straight), then pushing all tubing ends into fittings firmly to avoid leaks. Check to ensure the flow control direction is correct.
- 6 Hold the manifold/float assembly (E) so the bottom edge of the gray manifold is parallel with the floor and check the slope of the float. Hanging freely, **the float should "point" to about the 3:30 position of a clock face (see illustration on back cover)**. This is the factory pre-set. If the float attitude has moved, adjust accordingly and tighten the wing nut firmly. If the float attitude is correct, make sure the stainless steel wing nut is tight.

Perform this test before installing the manifold/float assembly (E) into the STAT/M:

- 7** Make sure the inline shut-off valve that feeds the AutoFill device is in the OFF position (valve handle perpendicular to the tubing).
- 8** Open both the main water supply valve to the VistaPure and the storage tank valve to pressurize the system. Check all fittings and the newly installed tubing to make sure there are no leaks anywhere in the system.
- 9** Place the AutoFill manifold/float assembly in a sink or bucket to avoid water spillage and move the handle of the inline shut-off feed valve to the ON position. A pressurized water stream should now run to the AutoFill manifold/float assembly and flow out of the bottom of the float valve. Push up gently on the float to stop the flow of water. Stop and start the flow of water a few times, then turn the shut-off valve to the OFF position.
- 10** Remove the STAT/M's reservoir cover and screen basket. Save these items in a safe place, as they are not used when the AutoFill device is in place.
- 11** Insert the float at a downward angle into the reservoir opening, making sure to point the float directly toward the back of the STAT/M. The gray manifold should rest flush over the filler hole and the product label should be readable from the front of the STAT/M.
- 12** Turn the shut-off valve that feeds the system to the ON position and water will automatically fill the STAT/M reservoir to the correct level.

NOTE: If for any reason the AutoFill manifold/float assembly needs to be removed from the STAT/M, first turn the shut-off valve to the OFF position to avoid water spillage. We recommend turning the shut-off valve to the OFF position at the end of each workday as a precaution, since the system would be unattended when the office is closed.

Installing AutoFill on a BRAVO

The VistaPure AutoFill for BRAVO device (S3030) can be installed on any model BRAVO autoclave.

A 12-foot length of clear polyurethane tubing is already attached to the AutoFill manifold for your convenience. If the desired distance between the connection to the VistaPure and the BRAVO is greater than 12 feet, simply order a longer length of the clear polyurethane tubing, as the distance from the VistaPure to the BRAVO is not limited, except by the feed tubing.

NOTE: The AutoFill kit requires the use of a relay tank (included with the BRAVO) that must be placed no farther than 6 feet from the BRAVO autoclave.

- 1 Turn off the city water feed valve that supplies water to the VistaPure system.
- 2 Turn off the tank valve on the VistaPure water storage tank.
- 3 Discharge water from the bottle faucet or autoclave wand to relieve pressure from the system.
- 4 Install the 1/4" tee (A) in the VistaPure line labeled "To Autoclave Wand" as shown in the illustration. Simply cut the tubing at the desired location, install the 1/4" tee, then push the clear 1/4" polyurethane tubing included with the AutoFill device (B) into the outlet of the tee.
- 5 Install the flow-control device (C) and shut-off valve (D) wherever desired by cutting the tubing (making certain the cuts are clean and straight), then pushing all tubing ends into fittings firmly to avoid leaks. Check to ensure the flow control direction is correct.
- 6 Hold the manifold/float assembly (E) so the bottom edge of the gray manifold is parallel with the floor and check the slope of the float. Hanging freely in its factory preset, the float "points" to about the 3:30 position of a clock face. **Loosen the wing nut, change the float orientation to 5:00 (see illustration on back cover), then re-tighten the wing nut firmly.**

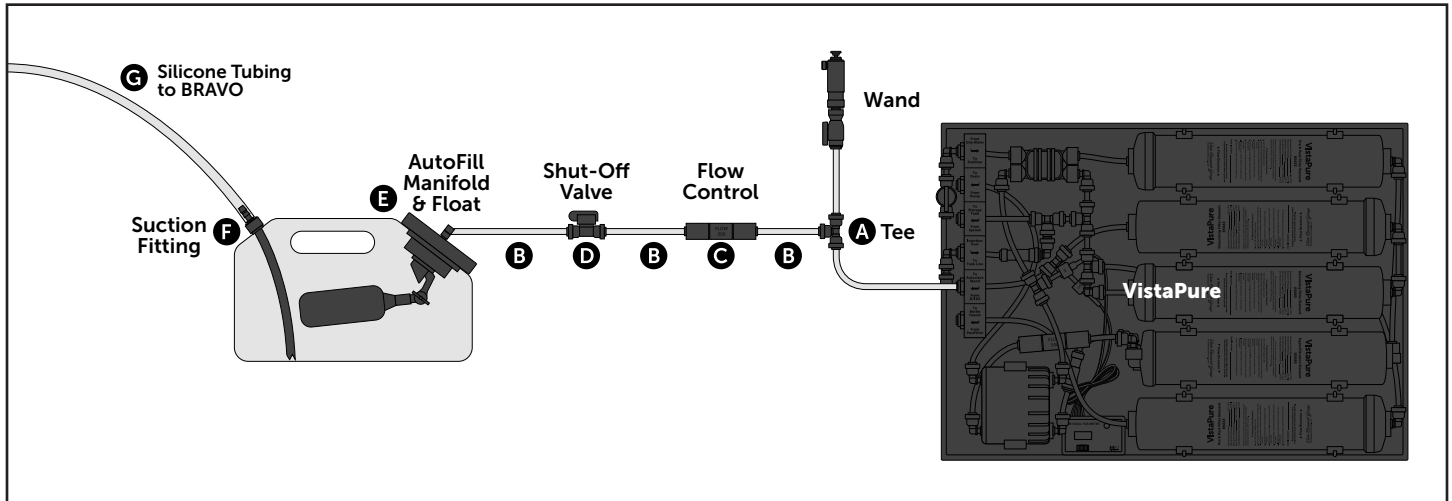
Perform this test before continuing installation:

- 7 Make sure the inline shut-off valve that feeds the AutoFill device is in the OFF position (valve handle perpendicular to the tubing).
- 8 Open both the main water supply valve to the VistaPure and the storage tank valve to pressurize the system. Check all fittings and the newly installed tubing to make sure there are no leaks anywhere in the system.
- 9 Place the AutoFill manifold/float assembly in a sink or bucket to avoid water spillage and move the handle of the inline shut-off feed valve to the ON position. A pressurized water stream should now run to the AutoFill manifold/float assembly and flow out of the bottom of the float valve. Push up gently on the float to stop the flow of water. Stop and start the flow of water a few times, then turn the shut-off valve to the OFF position.

In order to connect the VistaPure AutoFill manifold/float assembly to the BRAVO, one of the two tanks that come with the BRAVO must be selected as a "relay tank" since the BRAVO system uses a suction-lift pump to fill its reservoir when in its automatic-filling mode.

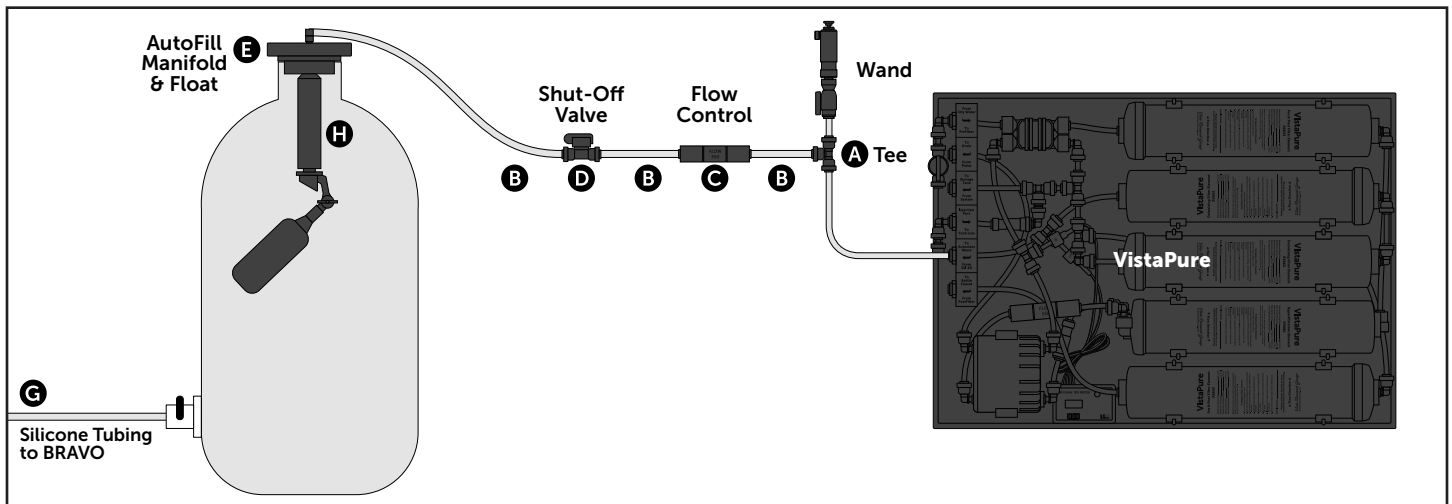
Select either the small “manual” filling tank or the large “automatic” tank with suction valve assembly. You might already be using one of these tanks or, if using a newer BRAVO system, might be pouring water into the reservoir manually through the hole on the top of the BRAVO. In any case, select which of the two tanks you want to use as your relay tank, since the BRAVO will suction-lift the water it needs from that tank, and follow the directions below.

If using the small BRAVO tank:



- 10 Remove small threaded barbed cap from the small fitting on the top of the bottle near the back of the formed handle. Store this cap and the manual fill silicone tubing in a safe place in case it is ever needed in the future.
- 11 Find the new white barbed cap with the blue dip tube. Push the blue tubing through the small hole in the threaded boss pushing it downward into the bottle. If the hole is not allowing the tubing to be inserted, simply drill out the hole to enlarge it using a 1/4" standard drill bit. Thread the white cap onto the thread boss so that it turns the angle of the blue tubing downward towards the bottom of the tank. **NOTE:** This is important to make sure the blue suction lift dip tube does not interfere with the action of the float.
- 12 Connect one end of the 3/8" O.D. included silicone tubing to the white plastic barb on the small cap and connect the other end to the metal water intake port hose barb on the back of the BRAVO unit. Note that the relay tank must be within 6 feet of the BRAVO due to the suction lift capacity of the BRAVO pump.
- 13 Insert the float at a downward angle into the reservoir opening making sure to point the float directly toward the back of the bottle. The gray manifold will be at about a 45 degree angle and should fit snugly over the thread flange of the opening (do NOT try to thread the manifold onto the opening as this will turn the float away from its correct position). **NOTE:** Align the manifold so the small air vent hole is at the 12:00 position (top) and the AutoFill label at the 6:00 position (bottom) of the bottle opening.
- 14 To ready the VistaPure AutoFill system for the BRAVO, turn the valve handle on the inline shut-off valve to the ON position. Water will begin to flow towards and fill the relay tank. See "BRAVO Settings" for startup directions.

If using the large BRAVO tank:



If using the large BRAVO relay tank, you **MUST** install the extension rod between the manifold and the float assembly as follows:

- 10** Remove the entire float assembly from the bottom of the gray manifold (E) by turning the gray plastic float base counterclockwise. Remove any Teflon tape debris from the 1/4" hole in the manifold.
- 11** Thread the 1/4" NPT male end of the gray extension rod included with the kit into the bottom of the manifold. Hand-tighten only. Do not use tools.
- 12** Apply fresh Teflon tape to the male threads on the end of the float base and thread it into the female end of the extension rod. Hand-tighten only. Do not use tools.

If the large relay tank has already been in use with the BRAVO, the 3/8" O.D. silicone tubing will already be connected. If making a new installation of the large tank while installing the AutoFill device, attach one end of the supplied silicone tubing to the hose barb on the valve at the bottom of the tank and the other end to the metal water intake port hose barb on the back of the BRAVO unit. Note that the relay tank must be within 6 feet of the BRAVO unit, due to the suction-lift capacity of the BRAVO pump.

- 13** Remove the black cap from the top of the large bottle tank and set aside.
- 14** Insert the float at a downward angle into the hole at the top of the large tank and lower the entire manifold assembly downward, securing it snugly over the thread flange of the tank opening. The gray manifold should be parallel to the floor on top of the tank. (the manifold simply rests on top of the tank—it does not need to thread).
- 15** To ready the VistaPure AutoFill system for the BRAVO, turn the valve handle on the inline shut-off valve to the ON position. Water will begin to flow towards and fill the relay tank. See "BRAVO Settings" for startup directions.

NOTE: If for any reason the AutoFill manifold/float assembly needs to be removed from the BRAVO relay tank, first turn the shut-off valve to the OFF position to avoid water spillage. We recommend turning the shut-off valve to the OFF position at the end of each workday as a precaution, since the system would be unattended when the office is closed.

BRAVO Settings

If the VistaPure AutoFill device is being installed with a BRAVO that is already using a tank connected to the 3/8" hose barb on the back of the unit, the system is already set to "Automatic Filling" in the "Filling Options" menu—you are ready to go. Simply make sure the water from the VistaPure is connected to the relay tank and the shut-off valve is in the ON position.

If installing a new BRAVO—or if the existing BRAVO has been filled manually using the small gravity tank or through the top opening previously—follow these steps on the BRAVO keypad to set the system to "Automatic Filling" mode:

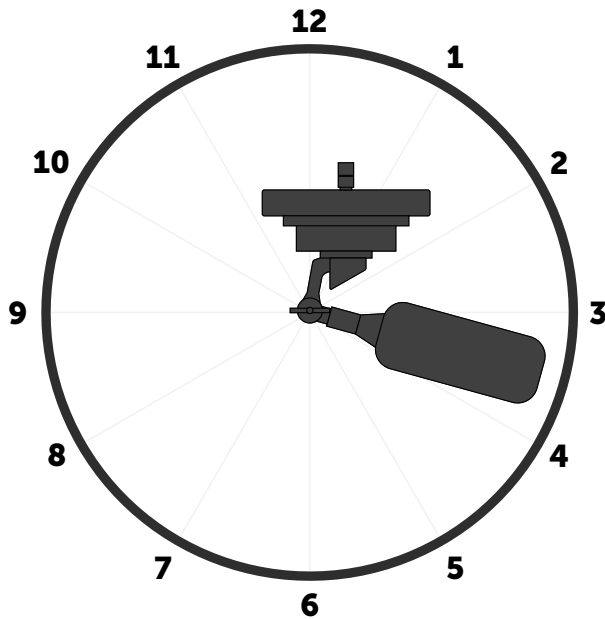
- 1** Press and hold the Menu button (located on the far left of the keypad) for 4-5 seconds until you hear a long beep. Most BRAVOs will now show the "BRAVO Set-Up" screen. In this case, simply press the black/red Enter button (far right of your keypad) to continue. If prompted for a password instead, press the minus (-) button (located second from the left on your keypad) eight (8) times, then push the black/red enter key to confirm. The "Basic/Advanced/Special/Service" screen will now show in the menu window.
- 2** Press the minus (-) button ONCE to move the arrow to the "Advanced" option. Press the black/red enter key to confirm.
- 3** Press the minus (-) button three (3) times to move the arrow to the "Filling Options" selection. Press the black/red enter key to confirm.
- 4** The screen will now show three options: Automatic, Manual or Exit. Highlight "Automatic" by pressing the (+) button to move the arrow up, or by pressing the (-) button to move the arrow down. Press the black/red enter key to confirm.
- 5** To return to the main menu screen, press the Menu button (far left of your keypad) three (3) times until the screen reads "BRAVO Set Up Complete." Press the black/red enter key to confirm you are finished with the BRAVO's setup menus.

The BRAVO is now set to the Automatic Filling mode and will start its AutoFill pump to bring water to the internal reservoir from the external relay tank (if the BRAVO is low on fresh water).

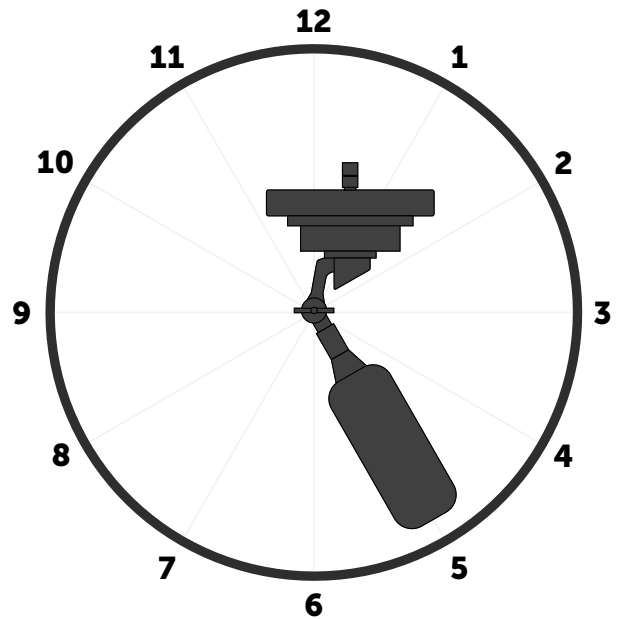
If the reservoir tank is completely empty at this stage (either because it is a new installation or had been drained previously), after a few minutes you might hear a long beep and see an error code: "Filling Problem Alarm" (A 040), indicating that the BRAVO's water pump was unable to fill the reservoir completely. This is to be expected on the first automatic filling attempt because the starting water level was far below the lower float switch. If this happens, simply power the BRAVO OFF completely for a few seconds, then turn it back ON. The BRAVO pump will automatically start again and fill the reservoir to the correct level.

If you have problems with the BRAVO starting up in the Automatic Filling mode, simply contact the SciCan technical service department for assistance (U.S. Customers: 1-800-572-1211).

Float Positioning



STAT/M
3:30 Position



BRAVO
5:00 Position

Distribution

VistaPure systems and accessories are sold through dental dealers throughout North America by:

Pelton & Crane

Pelton.net

11727 Fruehauf Drive
Charlotte, NC 28273
United States of America

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(800) 659-6560

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VistaPure™

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