Rev. 1 | 12/16/2022

[Guide] Dispense Solenoid Replacement

Overview

This document is intended to provide you with the necessary steps to replace the Still and/or Sparkling Solenoids on Countertop and Standup Bevi units.

Frequently Asked Questions

Q: What do the dispense solenoids do?
A: The dispense solenoids control the flow of still and sparkling water from the nozzle when a beverage is dispensed from the Bevi unit.

Q: How do I know when a dispense solenoid needs to be replaced?
A: Signs include the following:

- *Water leaking from the nozzle. This could be a constant dripping, or in some cases a constant flow from the nozzle when not dispensing a drink*
- *No water dispensing when dispensing a drink*

Q: How long does this replacement procedure take?
A: The procedure takes approximately 15 minutes.

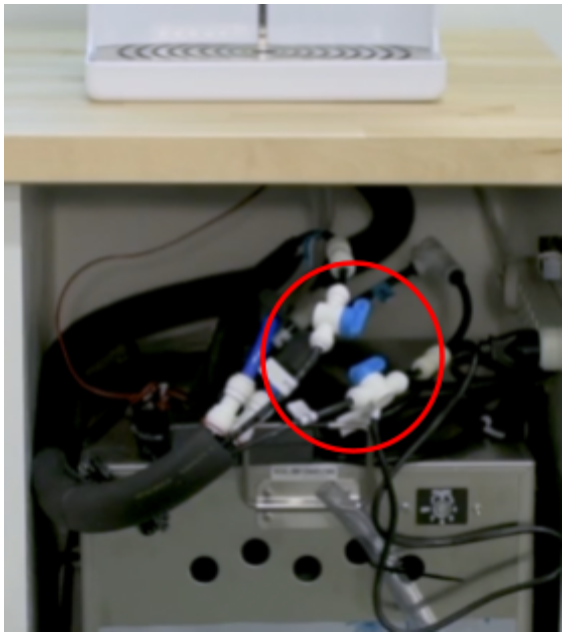
Required Tools & Materials

- *Screwdriver*
- *Bucket*
- *Right angle screwdriver (optional)*
- *Magnetic dish/tray (optional)*

Countertop Unit Steps

Task 1: Turn off water to the solenoid

1. Identify which solenoid you are replacing (still or sparkling).
2. Turn off the ¼” output valve on the chiller.
    a. If there are no shut off valves installed on the still or sparkling lines between the chiller and dispense console, turn off the chiller and main water supply to the Bevi.
    b. If swapping the sparkling solenoid, you will also need to turn off your CO2 tank

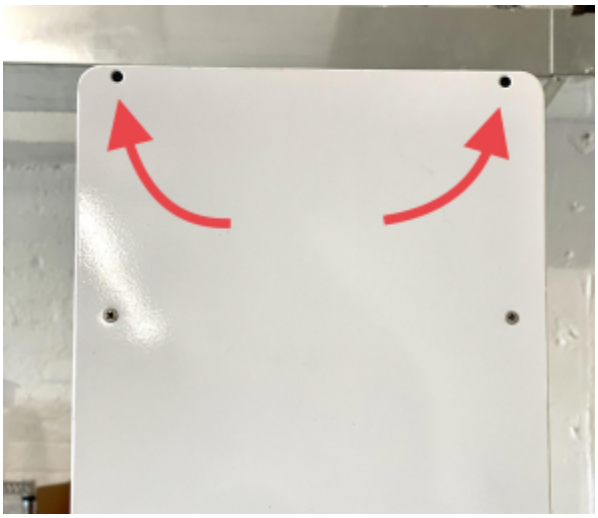


3. Dispense still/sparkling water from the dispense screen to break the pressure.
    a. The still/sparkling lines will be under pressure, so dispensing water do depressurize the line will allow you to more easily disconnect the tubing from the push-to-connect fittings

WARNING: Turn the power off before proceeding to Task 2

Task 2: Remove touchscreen

1. Remove the top two screws on the back panel
    a. Place the screws in magnetic tray to avoid losing any screws



2. Remove the two screws underneath the touchscreen
    a. Place the screws in magnetic tray to avoid losing any screws

3. Lift the touchscreen and unplug the ethernet, micro USB, and power cables from the touchscreen
    a. NOTE: Be extremely careful when lifting the touchscreen assembly. Pulling on the wiring can potentially damage the USB connection between the touchscreen and control board

4. Set touchscreen aside

Note: If you have a Right Angle Screwdriver, you can skip to task #4

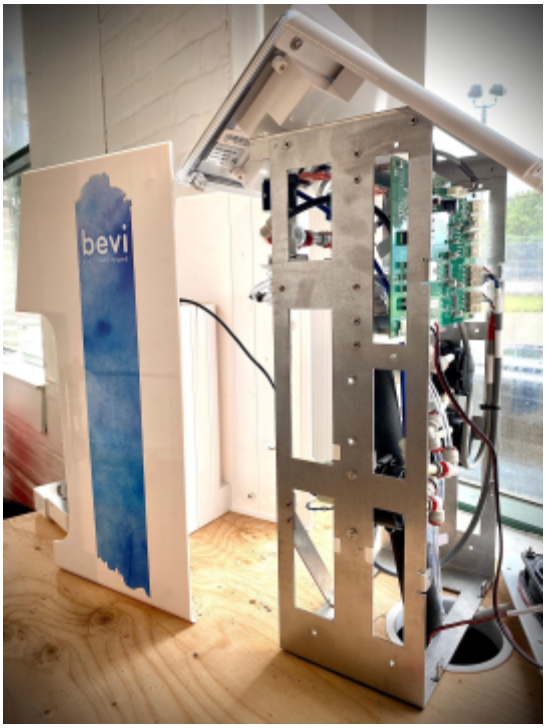
Task 3: Remove Shell

1. Remove remaining screws on the back panel of the head unit.

   a. Place the screws in magnetic tray to avoid losing any screws

2. Remove screws connecting the metal frame to the shell on both sides.
    a. There are 12 screws total, 6 per side.

3. Pull the shell from the frame
    a. Gently work the inner frame out of the plastic shell



Task 4: Remove solenoid

1. Remove the 2 wiring connectors from the solenoid(s)
    a. Be careful not to pull directly on the wires, as you could potentially pull the wire out of the connector

2. Remove the two screws connecting the solenoid to the bracket.

3. Disconnect the tubing from the solenoid

a. Prior to removing the solenoid, notate the orientation of the solenoid for when reinstalling
b. The input and output sides of the valve are numbered, #2 on the inlet, and #1 on the outlet.

Task 5: Install the new solenoid

1. Install the replacement solenoid into the bracket.
    a. Ensure that the solenoid is installed in the correct orientation
    b. The inlet and outlet sides are numbered accordingly.
    c. #2 is the inlet connection from the chiller, #1 is the outlet connection to the nozzle
    d. You may need to clock the wiring connection to allow proper installation
        i. If needed, loosen the nut on top of the solenoid and rotate the wiring connection accordingly

2. Reconnect the water lines.
3. Reconnect the solenoid wire harness
    a. The solenoid valves do not have any polarity, as long as both wires are connected to the solenoid it will function
4. Open the shut off valves to check for leaks
5. Power the machine back on
6. Dispense water to ensure functionality

Standup Unit Steps

Task 1: Turn off water to the solenoid

1. Identify which solenoid you are replacing (still or sparkling).
2. Turn off the ¼” output valve on the chiller.
3. Dispense water to break the pressure.

If working on a V.75 or V1 Standup, continue to Task 2

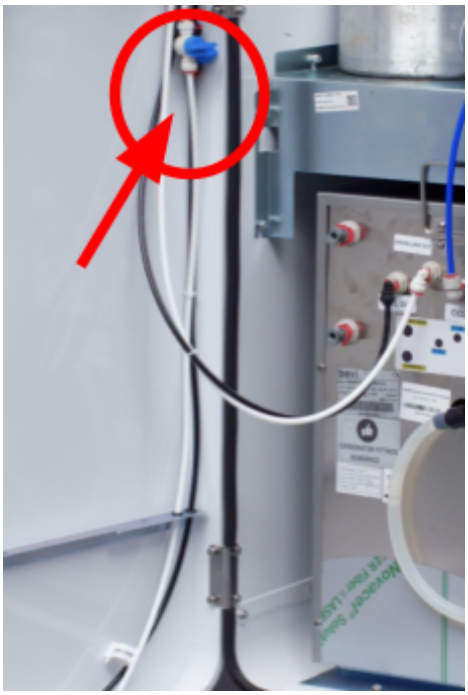
Task 1.2: For V1.5 Standup Units

1. V1.5 Units do not have shut off valves between the chiller output and the dispense nozzle
2. Turn off the chiller
3. Turn off the buffer tank
    a. The buffer tank is located under the flavor shelves
    b. Locate the blue shut off valve on the left side of the tank
    c. Rotate the valve ¼” turn counterclockwise to the off position
        i. The valve will be pointing up to the top of the machine

    d. If you are replacing the sparkling solenoid, you will also need to turn off your co2 tank

4. Locate the diagnostic valves on the inside of the door
    a. Run the still or sparkling diagnostic line into a bucket
    b. Open the valve(s) to depressurize the still/sparkling lines

c. Once fully depressurized, close the valve



WARNING: Turn the power off before proceeding to Task 2

Task 2: Remove solenoid

1. Remove the wire harness on the solenoids
    a. Be careful not to pull directly on the wires, as you could potentially pull the wire out of the connector
2. Remove the two screws connecting the solenoid to the bracket.
3. Disconnect the tubing from the solenoid.

Task 3: Install the new solenoid

Note: Connection labeled #2 is the inlet, #1 is the outlet.

1. Install the replacement solenoid into the bracket.
    a. Ensure that the solenoid is installed in the correct orientation
    b. The inlet and outlet sides are numbered accordingly.
    c. #2 is the inlet connection from the chiller, #1 is the outlet connection to the nozzle
    d. You may need to clock the wiring connection to allow proper installation
        i. If needed, loosen the nut on top of the solenoid and rotate the wiring connection accordingly

2. Reconnect the solenoid wire harness
    a. The solenoid valves do not have any polarity, as long as both wires are connected to the solenoid it will function
3. Open the shut off valves to check for leaks
    a. For V1.5, you should also open the buffer tank at this time
4. Power the machine back on
5. Dispense water to ensure functionality