

INSTALLATION INSTRUCTIONS

Ceramic FFV Flow Control Retro-Fit

SAFETY INSTRUCTIONS

**WARNING:**

Before starting installation, read and understand all safety label and warnings on the machine. Also review and understand all safety instructions in the owners, installation and service manuals.

Failure to comply could result in serious injury, death or damage to the equipment.

QUALIFIED SERVICE PERSONNEL

**WARNING:**

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit.

All wiring and plumbing must conform to national and local codes. Failure to comply could result in serious injury, death or equipment damage.

SAFETY PRECAUTIONS

This unit has been specifically designed to provide protection against personal injury. To ensure continued protection observe the following:

**WARNING:**

Disconnect power to the unit before servicing. Follow all lock out/tag out procedures established by the user. Verify all power is off to the unit before performing any work.

Failure to comply could result in serious injury, death or damage to the equipment.

**CAUTION:**

Always be sure to keep area around the unit clean and free of clutter.

Failure to keep this area clean may result in injury or equipment damage.

PROCEDURE

The following procedure is recommended to ensure optimal ratio performance when retro-fitting Ceramic FFV Flow Controls (FC) in existing valves. Failure to follow this procedure could cause the retro-fitted valves to perform incorrectly.

1. Remove front and rear covers from valve. On Counter Intelligence™ Beverage Systems (CI), lift and secure valve shroud panel.
2. Shut off valve at mounting block.
3. Activate valve to release pressure.
4. Disconnect wire harness from equipment. on CI units, disconnect wire leads from push button carefully to avoid damage to leads.
5. Lift bail and remove valve from unit. Valve must be removed from unit to ensure proper adjusting bonnet assembly.
6. Place valve on flat surface, mounting block side down, bonnet screws pointing up and nozzle facing technician, as shown:

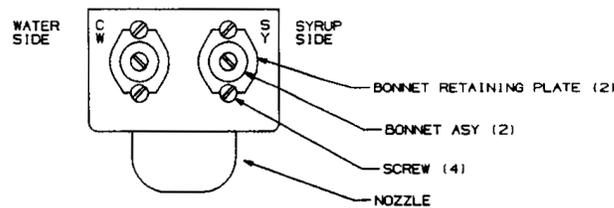


Figure 1

NOTE: To ensure proper flow controls are replaced in the correct flow control cavity in the valve body, water and syrup flow control retro-fit should be completed on one side before replacement of the other side is started.

7. Starting the syrup side flow control, remove the two (2) screws and bonnet retaining plate. Retain the plate and screws for reuse when installing the ceramic FC and new bonnet.
8. Remove bonnet assembly. While holding valve down with one hand, use pliers to grip slotted head of adjusting screw and pull upward with the other hand to remove bonnet and discard.
9. Remove old flow control assembly (sleeve, piston, and spring) from valve body and discard.
10. Open syrup Ceramic FC kit (part #82951-002) and remove parts.
 - The syrup Ceramic FC kit is packaged in a **pink** bubble pack bag.
 - The water Ceramic FC kit is packaged in a **clear** bubble pack bag.
11. Using water, lightly lubricate o-ring on FC sleeve.
12. Insert sleeve into valve body, with the sleeve holes facing upward.

13. Insert piston into sleeve with open end upward. Assembly should be as shown in Figure 2.
14. Using water, lightly lubricate o-ring on bonnet assembly.
15. Install bonnet assembly into flow control cavity in the valve body.
16. Replace bonnet retaining plate making sure to center it, and, while pressing down on bonnet, secure with screws by tightening screws alternately to ensure proper position. Screws should be tightened until snug, then tightened an additional 1/2 turn. Visually check to ensure that retaining plate is centered around bonnet shroud in finished assembled position.

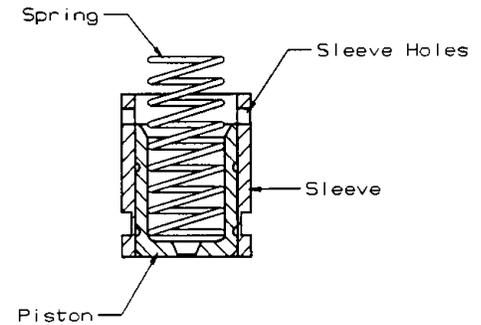


Figure 2

⚠ CAUTION:

Improper tightening of retaining plate screws on valve body could cause leakage.

17. Repeat steps 7 through 16 for water side flow control assembly (part #82951-001) replacement.
18. Using water, lightly lubricate o-ring on mounting block outlet tubes.
19. Replace valve on unit and lower bail.
20. Turn on valve at mounting block.
21. Check for leaks between valve and mounting block.
22. Reconnect wire harness to equipment. On CI units, connect wire leads to push button.
23. Perform water-to-syrup ratio adjustment per Coca-Cola Fountain procedures (CCUSA item #21386).