

INSTALLATION MANUAL

REPLACING THE SPH-VALVE KIT INSTRUCTIONS

CORNELIUS P/N 629096997

SAFETY:

**WARNING:**

Before starting the installation read and understand all safety labels 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.

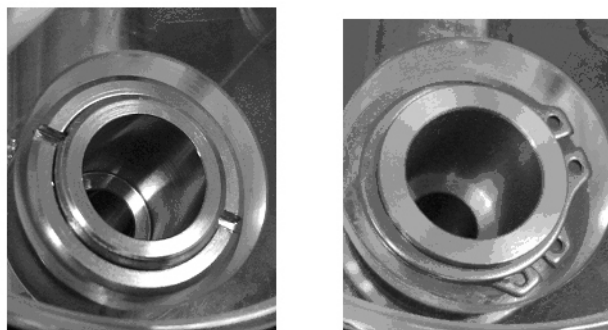
Failure to comply could result in serious injury, death or damage to the equipment.

**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.**

INSTALLATION:

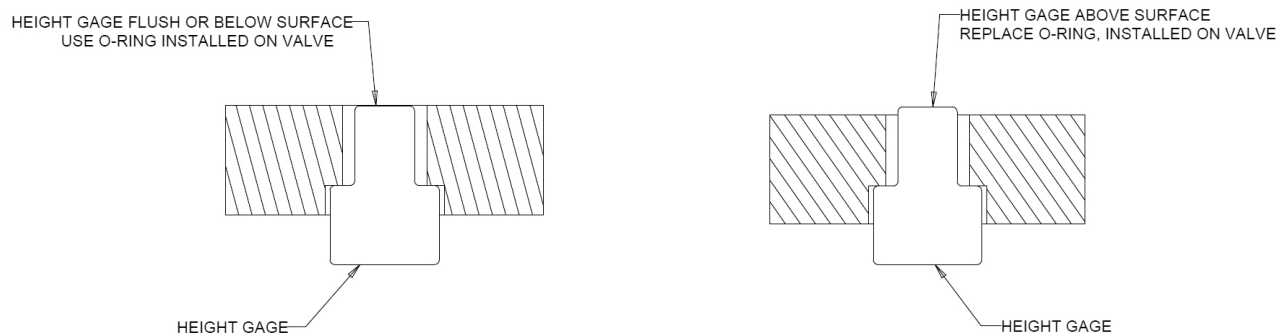
1. Defrost the barrel, empty the barrel, and flush the system of syrup. Refer to the owners and service manuals for instructions.
2. Disconnect the electrical power from the machine.
3. Open the relief valve on the front of the barrel to ensure that the pressure is released. Caution: Barrel pressure **MUST** be relieved before removing the face plate.
4. Remove the four (4) hex nuts from the faceplate.
5. Carefully remove the faceplate from the barrel. Care should be taken not to damage the o-ring of the face plate.
6. Carefully remove the blade assembly from the barrel.
7. Remove any remaining product from the barrel.
8. Rinse and inspect the blade assembly for signs of wear. Replace if necessary.
9. Remove the SPH-Valve Nut. Use the proper tool to remove the SPH-Valve from the face plate. For the retaining ring version, use retaining ring pliers with a .070" tip diameter. See Figure 1.



Nut Version

Retaining Ring
Version**Figure 1.**

10. If the face plate is scratched or damaged when removing the valve, replace the face plate (560004631).
11. Insert the height gage into the face plate as shown in Figure 2. If the gage is flush or below the surface of the face plate, then proceed to the next step. If the height gage is above the surface of the face plate, then carefully remove the spacer o-ring and replace with (thicker) spacer o-ring provided with SPH-Valve replacement kit.
12. Lubricate the SPH-Valve o-ring with Dow-Corning 111 Light Grade Silicone Lubricate. This prevents the o-rings from being damaged during assembly.
13. Assemble the replacement SPH-Valve to the freezer door.

**Figure 2.**

14. Assemble the two retaining rings on the SPH-Valve. Be sure to install each retaining ring correctly, as shown in Figure 3.

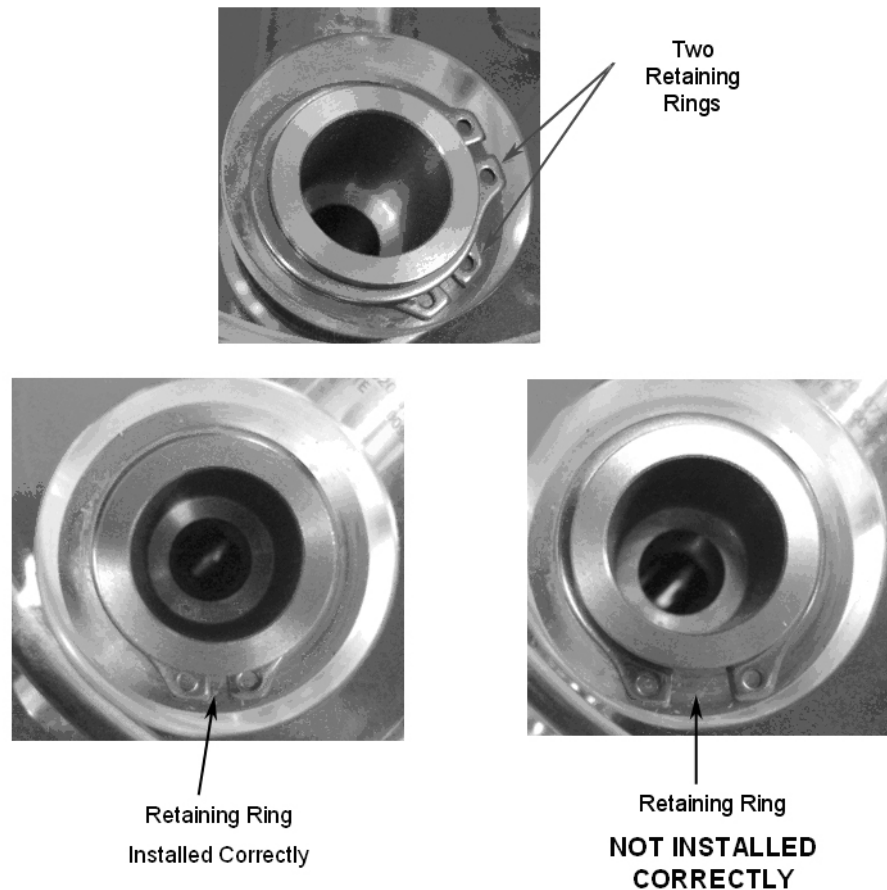


Figure 3.

15. Sanitize the face plate assembly and blade assembly. Be sure to follow sanitizing solution instructions.
16. Carefully re-install the blade assembly in the barrel. Be sure to follow the owners and service instructions.
17. Lubricate the face plate o-ring with Dow-Corning 111 Light Grade Silicone Lubricate. This prevents the o-rings from being damaged during assembly.
18. Re-install the face plate, and replace the four (4) mounting hex nuts. Hand tighten the nuts until the face plate makes contact with the gasket, then use a wrench to tighten the nuts an additional 1/4 turn. Be careful not to over tighten the hex nuts or cracking of the face plate may result.
19. Follow the all sanitizing instructions in the service and owners manuals.
20. Follow all instructions to re-start the machine and set-up the barrel for operation.



WARNING:

Failure to follow the prescribed instructions could result in personal injury.