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## 23G Permeate Divert Removal/ Replacement Instructions

### List of Tools Required:

- diagonal cutters
- pliers
- large pliers
- ½-inch wrench, open end
- 1-5/16-inch wrench, open end
- (2) 7/16-inch wrenches, open end
- Teflon tape

### **DIVERT REMOVAL INSTRUCTIONS**

1. DRAIN MACHINE!
2. Remove three nylon tie-straps near cross. (Diagonal cutters)
3. For machines with Permeate Pressure Relief Option: Remove tubing from two pressure relief valves by unscrewing fitting collars three turns and pulling tubes out.  
  
Label tubes as "pressure relief." Remove the relief valves, by unscrewing them from the permeate pipe. Remove the two nipples (pliers).
4. Label and remove tubes from the elbow and tee on the permeate AquaMatic valve. Label tubes from tee with "tee tubes" and the elbow with "elbow tube."
5. Remove permeate pressure switch from permeate piping. (½-inch wrench, Phillips screwdriver)
6. Remove the permeate conductivity probe from cross. (1-5/16-inch wrench)
7. Loosen top union collar of vertical AquaMatic valve and both unions on horizontal AquaMatic.
8. Loosen union coupling of permeate flow meter. (Large locking pliers)
9. Loosen both pipe clamps on vertical permeate plumbing run. (Two 7/16" wrenches)
10. Slide plumbing run upward to remove adapter from vertical AquaMatic valve.
11. Slide out central plumbing run along with horizontal AquaMatic valve.
12. Remove two remaining clamps along with vertical permeate plumbing. (Two 7/16" wrenches)

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**ASSEMBLY INSTRUCTIONS  
FOR  
PERMEATE DIVERT RETROFIT PLUMBING**

1. Loosely install new vertical plumbing assembly using the two previous clamps (Two 7/16-inch wrenches).
2. Remove O-ring, clip, and union nut from old plumbing assembly. Place union nut, clip, and O-ring on AquaMatic adapter on new plumbing run.
3. Loosely install new AquaMatic valve on bottom end of new vertical plumbing run. Make sure flow indicator is in the correct position. Be careful not to damage the O-ring.
4. Place in new plumbing assembly and lightly tighten all unions. (Do not overtighten.)
5. Align the new piping and tighten the two vertical clamps (Two 7/16-inch wrenches).
6. Tighten the unions on the AquaMatic valves and the flow meter. (Do not overtighten.)
7. Re-install the permeate conductivity probe (Teflon tape, 1-5/16 inch wrench).
8. Re-install the permeate pressure switch (Teflon tape, ½-inch wrench, Phillips screwdriver).
9. For machines with Permeate Pressure Relief Option: Remove 0.25" pipe plugs and install 0.25" nipples (Teflon tape). Reinstall pressure relief valves using Teflon tape on nipple threads.
10. Place tubes back in the AquaMatic valve tube fittings and the pressure relief valves according to labels and tighten fitting collars. (Do not overtighten.)
11. Turn machine on and run as normal. Check for leaks in new assembly.