

## FAILURE TO FOLLOW THESE INSTRUCTION WILL VOID ANY WARRANTY

**CAUTION:** Inspect valve for shipping damage. Also make sure inside of valve is free of shipping materials and that the flapper functions freely. Installation of model 745 must be performed by qualified, licensed personnel. Faulty installation could result in an improperly functioning device.

Correct installation of the 45° Flo-Flex® is important for proper operation. It may be installed in either the horizontal or vertical positions. However, when installed in the horizontal position, the valve must be installed with the name facing up and the cover level. In all installations, the flow arrow cast on the valve must be pointed in the direction of flow during normal system operation.

Flanged valves should only be mated with flat-faced pipe flanges equipped with full faced resilient gaskets. The valve and adjacent piping must be supported and aligned to prevent cantilevered stress on the valve. Once the flange bolts or studs are lubricated and inserted around the flange, tighten them uniformly hand tight. The tightening of the bolts should then be done in graduated steps using the crossover tightening method. If leakage occurs, allow gaskets to absorb fluid and check bolt torque and leakage after 24 hours. Do not exceed bolt rating or extrude gasket.

Proper performance depends upon following these installation instructions and prevailing governmental and industry standards and codes. Failure to do so releases Danfoss Flomatic of any liability that it might otherwise have with respect to that device. **NOTICE:** The 45° Flo-Flex® Check Valve requires no scheduled lubrication or maintenance. For service or inspection the valve can be serviced without removal from the line. If inspection of the valve is required, follow the disassembly instructions

### DISASSEMBLY

The valve can be disassembled without removing it from the line. Or for convenience, the valve can be removed from the line. All work on the valve should be performed by a qualified licensed personal with proper tools and a power hoist for larger valves. Disassembly may be required to inspect the disc for wear or the valve for debris.

1. Relieve pressure and drain the line.
2. Remove the cover bolts on the top cover.
3. Pry cover loose and lift off valve body. 14" and larger sizes have tapped holes in cover for lifting eye bolts.
4. Remove disc and inspect for cracks, tears or damage in rubber sealing surface.
5. Clean and inspect parts. Replace worn parts as necessary and lubricate parts with FDA grease such as Lubriko #CW-606.

### **RE-ASSEMBLY**

All parts must be cleaned. Gasket surfaces should be cleaned with a stiff wire brush in the direction of the serrations or machine marks. Worn parts, gaskets and seals should be replaced during reassembly.

1. Lay disc over seat with beaded seating surface directed down.
2. Lay cover gasket and cover over bolt holes and disc hinge.
3. Insert lubricated bolts note: the bolts in the hinge area are longer than the other cover bolts.
4. Tighten cover bolts uniformly.

### **TROUBLESHOOTING**

**Problem:** Leakage at Backflow connection

**Solution:** Remove line pressure and exercise backflow. If leak persists, replace seals in backflow; see backflow installation instructions.

**Problem:** Leakage at Cover or Flanges

**Solution:** Tighten bolts, and/or replace flange seal or cover gasket.

**Problem:** Valve leaks when closed

**Solution:** Inspect disc for damage and replace if needed. Inspect metal seating surface and clean if necessary.

**Problem:** Valve does not open

**Solution:** Check for obstruction in valve or pipeline. Operating pressure may be less than cracking pressure. If less than 0.5 psi, review application with factory.

### **INSTALLATION**

Parts and service are available from your local representative or the factory. Make note of the valve Model number and size located on the nameplate.

**1 Year Limited Warranty:** Flomatic valves are guaranteed against defects of materials or workmanship when used for the services recommended. If in any recommended service, a defect develops due to material or workmanship, and the device is returned, freight prepaid, to Flomatic Corporation within 12 months from the date of purchase, it will be repaired or replaced free of charge. Flomatic Corporations' liability shall be limited to our agreement to repair or replace the valve only.