

Model 950 & 975

Double Check Valve Assembly
Reduced Pressure Principle Assembly

2 1/2" Thru 10"

WILKINS

A ZURN™ COMPANY

Maintenance Instructions

All Model 975 Reduced Pressure Principle and Model 950 Double Check Valve Backflow Preventers must be inspected and maintained by licensed personnel at least once a year or more frequently as specified by local codes. Replacement of worn or damaged parts must only be made with genuine "WILKINS" parts.

Backflow prevention assemblies should be thoroughly flushed after backflow conditions occur to prevent any type of corrosive deterioration to its components. Failure to do so could result in malfunction of the device.

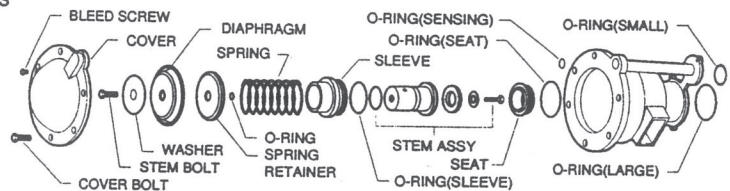
GENERAL MAINTENANCE

1. Clean all parts thoroughly with water after disassembly.
2. Carefully inspect rubber seal rings, diaphragms and o-rings for damage.
3. Test unit after reassembly for proper operation according to "TESTING PROCEDURES" on page 2.

SERVICING CHECK VALVES

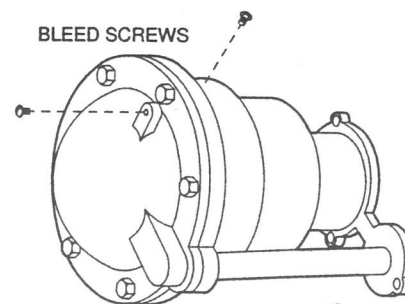
1. Close inlet and outlet shut-off valves.
2. Open No. 2, No. 3 and No. 4 test cocks to release pressure from valve.

3. Unbolt the check valve covers using appropriate size wrench. NOTE: Poppets are self contained. The covers should lift no more than 1/2" before tension is relieved.
4. Remove check cover and poppet assembly.
5. Inspect the rubber seal ring for cuts or embedded debris. To remove seal ring, remove nut and seal ring retainer. If the reverse side of the seal ring is unused, it is possible to invert the seal ring. This would be considered a temporary solution to fixing a fouled check and should be replaced with a new seal ring as soon as possible.
6. Inspect valve cavity and seating area. Remove any debris.
7. Reverse the above procedures to reinstall check valve assembly. NOTE: Care should be taken to make sure the heavy spring is installed in the No. 1 check valve (Model 950DA, 975 & 975DA only).



SERVICING RELIEF VALVE

1. Remove relief valve cover bolts and cover. Gently pull on diaphragm to remove the cartridge assembly.
2. Inspect seal ring for cuts and embedded debris. Turn over or replace if required.
3. Disassemble stem cartridge by unscrewing diaphragm bolt. **CAUTION: This assembly is spring loaded.**
4. Inspect diaphragm and o-rings for damage. Replace required parts and apply a light coat of grease to o-rings.
5. Carefully reassemble cartridge assembly.
6. Inspect stainless steel seat for wear on seating surface. If damaged, replace seat and seat o-ring.
7. Insert cartridge assembly into relief valve body. Make sure that stem guide is fully seated into body and that diaphragm is assembled as shown below.
8. Replace cover o-ring, cover and cover bolts.
9. Place relief valve back in service and test according to "TESTING PROCEDURES" on page 2.



AIR BLEED FROM RELIEF VALVE

To bleed air from relief valve, first locate the two stainless steel bleed screws located on the top of cover and side of body. Using a slotted head screwdriver, turn the screws counterclockwise about 1/4 to 1/2 turn. When a steady stream of water is noted, turn the screws clockwise to their original position.

