

# Maintenance Instructions

Model 350 3/4 - 1"

All Model 350 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.

## GENERAL MAINTENANCE

1. Clean all parts thoroughly with water after disassembly.
2. Carefully inspect rubber seal rings and o-rings for damage.
3. Test unit after reassembly for proper operation (refer to "TESTING PROCEDURES").

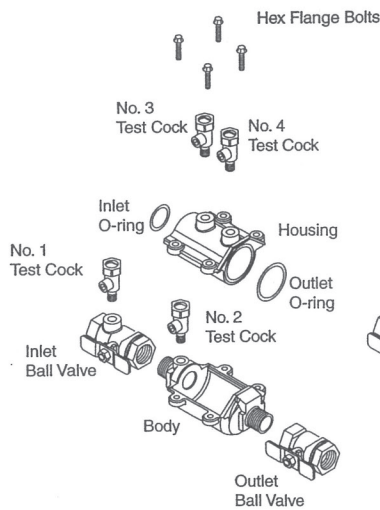


FIGURE 1

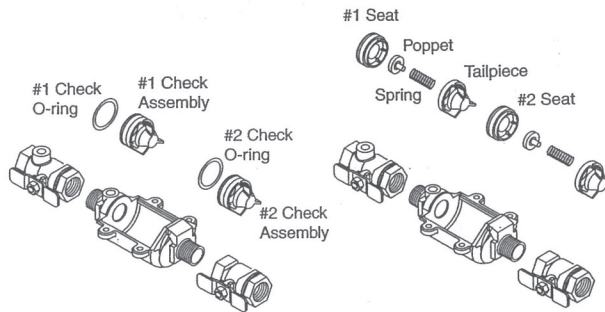


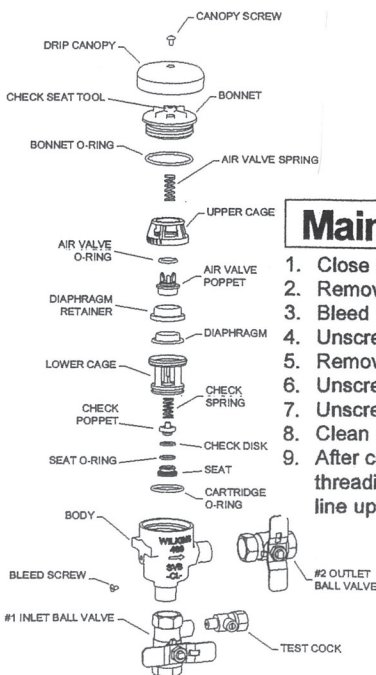
FIGURE 2

FIGURE 3

## 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. Unscrew the 4 bolts (1/4-20 UNC Hex Flange) holding the housing in place.
4. Using a #2 flathead screwdriver, pry loose housing by placing the screwdriver in the notch between housing and body. Pull housing out of the body and remove checks by sliding them towards the outlet of housing.
5. Using the same screwdriver, locate the notch between seat and tailpiece of each check. Insert screwdriver and twist to "snap" checks apart. CAUTION: Checks are spring loaded.
7. Inspect the rubber seal ring around poppet for cuts or embedded debris.
8. If the poppet is damaged, replace with a new poppet.
9. Inspect the remaining check parts and seating areas. Remove any debris.
10. If necessary, replace any damaged parts with new ones.
11. Lightly grease o-rings on checks and reinstall into housing following the above procedures in reverse order.
12. Flush body prior to reinstalling housing.
13. Lightly grease o-rings on housing and reinstall into body following the above procedures in reverse order.

Note: When installing housing, match slight taper on the outlet of the housing with corresponding taper in body.



## Maintenance Model 460 3/8 - 1/2"

1. Close inlet and outlet shut-off valves before disassembling device.
2. Remove canopy screw and drip canopy.
3. Bleed off pressure by opening the test cock and bleed screw.
4. Unscrew the bonnet from the body by turning counterclockwise. The drip canopy may be used as a bonnet removal tool.
5. Remove the check cartridge from the assembly by slowly rocking it back and forth within the body.
6. Unscrew the upper cage counterclockwise relative to the lower cage, allowing access to the diaphragm and air vent poppet.
7. Unscrew the check seat from the lower cage using the tool molded into the top of the bonnet labeled "CHECK SEAT TOOL".
8. Clean all parts with clean water only.
9. After completing inspection, replace necessary parts and reassemble. Repair kits are available from your supplier. Note: When threading the upper cage onto the lower cage, torque the upper cage by hand until the torque marks on the rim of the upper cage line up with the arrow on the lower cage.