

INSTRUCTIONS

VistaCheck backflow preventers are designed for use with specialty equipment and designed systems like dental, medical, laboratory, processing and other types of general fluid equipment. They can be directly attached to copper piping and non-metallic tubing supplying water from municipal systems or other sources. Model VC250 has a maximum flow rate capacity of up to 1 gpm. Models with greater flow rate capacities and various fitting arrangements are also available.

VistaCheck backflow preventers are designed for use with clear water. If sediment is present in the water supply a filter should be used ahead of the check valves to help prevent plugging. Please note the following specifications, make certain the check valves are not subjected to freezing, direct sunlight or high heat and follow all local plumbing codes.

Model VC250

Max PSI: 150 @ 70 F

Max PSI: 100 @ 100 F

Max PSI: 60 @ 140 F

Max Service Flow Rate: 1 gpm

The standard fittings supplied with model VC250 **VistaCheck** are 1/4" Tube x 1/4" MNPT quick connect fittings for use with 1/4" O.D. plastic and copper tubing. Other fittings are available but the following directions reference the standard fittings. Make adjustments as necessary for installation and maintenance based upon other fittings ordered with each **VistaCheck**.

INSTALLATION

1. Determine the flow direction by looking for the arrows on the **VistaCheck** label. You can also tell the flow direction by looking through the clear check valve body at the individual check cartridges. The end with the red O-Ring is always the INLET end of the cartridge.
2. Make certain the tubing is cut straight and free of all burrs or jagged edges. This is especially important when using on copper.
3. Firmly push one end of the **VistaCheck** onto the tubing making certain that the tubing is fully engaged into the fitting. The plunge depth into the fitting is 11/16". Firmly push the tubing into the other end of the **VistaCheck**. Make certain that the direction of flow is correct for the application.
4. Slowly pressurize the system and check for leaks. If a leak occurs at any fitting, turn off the water and relieve the system pressure. You will need to remove the tubing from the fitting at the leak point as follows. To remove

on the end of the fitting tightly back against the fitting body and pull the tubing out of the fitting. Check for damage to the tubing. Re-install the tubing making certain to fully engage it into the fitting (11/16" plunge). Once again re-pressurize and check for leaks. If there is still a leak and the tubing is not damaged, the O-Ring beneath the collet may have been damaged and will need to be replaced. This, however, is very uncommon.

MAINTENANCE

Generally, no maintenance is required with **VistaCheck** backflow preventers. Should sediment enter the system the cartridges may need to be cleaned or replaced depending on the situation. Should cleaning or replacement of cartridges be required, follow these steps:

1. Relieve system pressure and remove the **VistaCheck**.
2. Remove both fittings from the check valve body.
3. Insert a blunt tool into the OUTLET end of the body and push until the cartridges come out of the inlet end.
4. Clean or replace the cartridges by inserting one at a time into the INLET end of the body making certain that the O-Ring is oriented towards the inlet end. Use the blunt tool and firmly push them fully into the stop and re-install the fittings making certain to use thread tape.

TESTING

If the standard polyethylene push type fittings are used, you can easily test the **VistaCheck** to make certain it is working properly as follows:

1. Turn off the water supply with the entire system fully pressurized then relieve the pressure from the INLET side only.
2. Check the collet on the OUTLET fitting. If it is spaced away from and cannot be pushed back against the fitting body, the check valves are working. If it can be pushed against the fitting body, pressure has been lost and the check valve cartridges should be replaced.

The method for testing **VistaChecks** with other types of fittings is to use a gauge on both sides of the housing and perform step #1 above. If the OUTLET gauge holds its pressure, the check valves are working.