



Dental Waterline Treatment System
For all VistaClear Central System Models

1000-23-C / 1000-34-C / 1000-46-C / 1000-47-C

Backflow Prevention

Annual Backflow Preventer Valve Testing

All **VistaCheck** backflow preventer valves downstream of the Distribution Manifold on the system should be checked **at least once per year** to make certain they are working properly. Follow these steps to perform this simple but important testing procedure. This testing procedure will not expose the system to outside contamination.

1. Start with the system in the normal service position. This means that the water inlet valve on the lower manifold is **open**, the air inlet valve is **closed**, the drain valve is **closed** and all valves leading to operatories are **open**. The pressure gauges should be registering readings approximately 40 psi in the service position if regulators are in place. If regulators are not being used, the pressure readings will be higher. In the service position with all operatory valve **open**, there will be pressure throughout the entire system.
2. **Close** the water inlet valve on the lower Control Manifold and **open** the drain valve on the Mixing Chamber to relieve all system pressure and allow water from the Chamber to run to drain.
3. Examine the **VistaCheck** backflow preventer valves above the upper Distribution Manifold. They are designed with collets on each end that move away from the fitting body when the fitting is under pressure. When there is no pressure in the fitting, the collets can be easily pushed against the fitting body. Please see the diagrams on the opposite page that shows the location of the **VistaCheck** backflow preventer valves relative to the Distribution Manifold and the position of collets under various pressure conditions.
4. With the drain valve still in the **open** position and using fingertips, attempt to push the collet on the outlet side of the **VistaCheck** (position B) back against the fitting body.
 - If there is strong resistance or the collet **cannot** be moved, this indicates that the check valve is working properly since pressure from the line running to the operatory is still present.
 - If the collet **can** be pushed back against the fitting body at position B, that check valve is not working properly and should be replaced immediately. Repeat this test procedure on each **VistaCheck** to ensure pressure is being held in each operatory distribution line.
5. To return to normal operating position, **close** the drain valve on the Mixing Chamber and **open** the water inlet valve on the lower Control Manifold. Pressure should register on both gauges and the system is ready for use.

NOTE: If the R5450 filters were changed during the same time period as the backflow test or if any of the **VistaCheck** backflow preventer valves were removed or replaced, be certain to perform a full system cleaning since the lines and components will have been exposed to possible bacterial contamination.

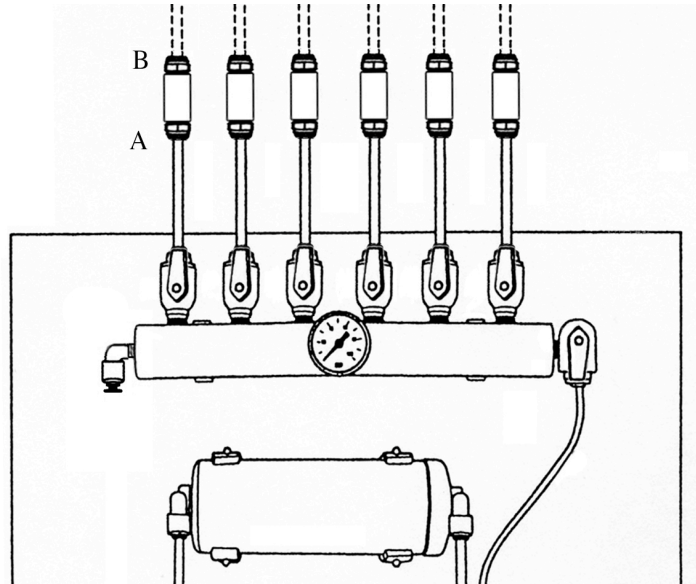


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Backflow Prevention

Upper Distribution Manifold



VistaCheck Backflow Preventer Collet Positions

<p>NO Pressure On Either End <i>Collets can be easily pushed against fitting body.</i></p>	<p>FULL Pressure on Both Ends <i>Collets can NOT be easily pushed against fitting body.</i></p>	<p>Pressure on 3B / None on 3A <i>Separation of collet and fitting at 3B means check valve is working..</i></p>