

Pressure Vacuum Breaker
(for use with five valve equipment)

Preparation: Notify customer
Inspect area
Flush testcocks
Install fittings
Remove air inlet valve canopy
Inspect test kit – close all needle valves

Note: Make sure that all hoses and gauge are at the same level as the pressure vacuum breaker
Do not have test kit attached to backflow prevention assembly when opening #1 shut-off valve

Air Inlet Test Attach high hose to testcock #2
Open testcock #2 **slowly**
Open high-pressure bleed valve then close high-pressure bleed valve
Close #2 shut-off valve, then close #1 shut-off valve
Slowly open high-pressure bleed valve no more than ¼ turn, until air inlet valve opens.
Record value of air inlet valve (1.0psid. or greater to pass)
Close testcock #2 then remove high hose from testcock #2
Close high-pressure bleed valve
Open #1 shut-off valve to re-pressurize the assembly

Check Valve Test Attach high hose to testcock #1
Open testcock #1 **slowly**
Open high-pressure bleed valve then close high-pressure bleed valve
Record line pressure
Close #1 shut-off valve
Open testcock #2 until water drains out of the body
Record value of check valve (1.0psid. or greater to pass)

Record #1 shut-Off Valve Record #1 shut-off valve as (closed tight or leaking)

Final Close testcocks #1 and #2, remove all test equipment
Open #1 shut-off valve
Open #2 shut-off valve
Replace air inlet valve canopy

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Trouble Shooting

NOTE: Flushing and/or cleaning the internal components can correct many problems. Carefully observe condition of components.

PROBLEM	MAY BE CAUSED BY
Air inlet valve does not open, as gauge drops to 0.0 psid.	1. Air inlet disk stuck to seat 2. Broken or missing air inlet spring 3. "Old Style" pressure vacuum breaker (non-loaded air inlet valve)
Air inlet valve does not open, and differential on gauge will not drop	1. Leaky #1 shut-off valve 2. Parallel installation with leaky #2 shut-off valve
Air inlet opens below 1.0 psid.	1. Dirty or damage air inlet disk 2. Scale build up on seat
Check valve below 1.0 psid.	1. Dirty or damaged check disk 2. Damaged seat 3. Weak or broken spring
Water runs continuously from test cock #2 (CV test)	1. Leaky #1 shut-off valve

Repair Note: Lubricants shall only be used to assist with the re-assembly of components, and shall be USDA approved and non-toxic.