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.

<table>
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<tr>
<th>PROBLEM</th>
<th>MAY BE CAUSED BY</th>
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| 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 damaged 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.