

A.6.4 Spill Resistant Pressure Vacuum Breaker Assembly (SVB)

Preliminary Steps

- Notify
- Identify
- Inspect
- Observe

Test No. 1 -Check Valve Closing Point

- 1a. Remove canopy.
- 1b. Flush test cock and vent valve.
- 1c. Install fitting and bleed valve arrangement.
- 1d. Attach high hose to bleed valve arrangement.
- 1e. Open test cock.
- 1f. Bleed air through high bleed needle valve.
- 1g. Close high bleed needle valve.
- 1h. Close No. 2 shutoff valve, locate field test kit at proper elevation, close No. 1 shutoff valve.
 - If reading does not decrease, go to 1i.
 - If reading decreases, and air inlet does not open, go to 1i.
 - If reading decreases, and air inlet opens, go to T1.
- 1i. Open vent valve.
 - If air inlet does not open, go to 1j
 - If air inlet opens, go to T2.
- 1j.
 - If water stops draining through vent valve and reading stabilizes, record reading for check valve. Go to 2a.
 - If water continues to flow through vent valve, go to T3.

Test No. 2 - Air Inlet Valve Opening Point

- 2a. Maintain field test kit at same level as vent valve.
- 2b. Open high side bleed needle valve no more than 1 / 4 turn.
 - If air inlet opens, record reading on gage. Go to 2c.
 - If reading drops to 0.0 and air inlet does not open. Record as such. Go to 2d.
- 2c. Close high side needle valve and remove high side hose. Record that air inlet valve fully opens
- 2d. Close test cock and vent valve.
- 2e. Remove test equipment and fittings.
- 2f. Open No. 1 shutoff valve, then No. 2 shutoff valve.
- 2g. Replace air inlet valve canopy.

Diagnostics

- T1. Record reading when air inlet valve opens. Open vent valve, when water stops draining through vent valve and reading stabilizes, record reading for check valve. Remove high side hose and record that air inlet valve fully opens. Go to 2d.
- T2. Record reading for air inlet valve opening point.
 - If reading settles and water stops draining through the vent valve, record reading for check valve.
 - If reading settles and water continues to flow through the vent valve, open bleed valve arrangement until there is a drip from the vent valve. Record reading for check valve. Remove high side hose, record that air inlet opens fully. Go to 2d.
- T3. If water continues to flow from vent valve, record No. 1 shutoff valve as leaking. Open bleed valve arrangement.
 - If water from vent valve is a drip and reading stabilizes, record reading for check valve. Go to 2a.
 - If it is not possible to reduce flow at vent valve to drip, record that No. 1 shutoff valve is leaking too much. Go to 2d.