

A.6.3 Pressure Vacuum Breaker Assembly (PVB)

Preliminary Steps

- Notify
- Identify
- Inspect
- Observe

Test No. 1 - Air Inlet Valve Opening Point

- 1a. Remove canopy.
- 1b. Flush test cocks.
- 1c. Install fittings and bleed valve arrangement.
- 1d. Attach high hose to No. 2 test cock. Open No. 2 test cock.
- 1e. Open high bleed needle valve to bleed air. Close high bleed needle valve.
- 1f. Close No. 2 shutoff valve, locate field test kit at proper elevation, and then close No. 1 shutoff valve.
 - If reading drops, record opening point and remove hose from test cock No. 2. Record that air inlet valve fully opens. Go to 1i.
 - If reading does not drop, Go to 1 g.
- 1g. Open high bleed needle valve no more than 1 / 4 turn.
 - If air inlet valve opens, record opening point. Go to 1h.
 - If air inlet reading drops to 0.0 and doesn't open, record as such. Close No. 2 test cock and high bleed needle valve. Go to 1j.
 - If reading will not drop to air inlet valve opening point, go to T1.
- 1h. Close high side bleed needle valve, remove hose from test cock No. 2. Record that air inlet valve fully opens
- 1i. Close No. 2 test cock.
- 1j. Open No. 1 shutoff valve.

Test No. 2 -Check Valve Closing Point

- 2a. Attach high side hose to bleed valve arrangement on test cock No. 1. Open test cock No. 1.
- 2b. Open and close high bleed needle valve to bleed air from field test kit.
- 2c. Locate field test kit at proper elevation. Close No. 1 shutoff valve.
- 2d. Open test cock No. 2.
 - If water flow stops (or drip) from test cock No. 2 and reading stabilizes, record check valve reading. Go to 2e.
 - If water does not stop flowing, go to T2.
- 2e. Close test cocks.
- 2f. Remove equipment and fittings.
- 2g. Open No. 1 shutoff valve, then open No. 2 shutoff valve.
- 2h. Replace canopy.

Diagnostics

- T1. Close high bleed needle valve. Open the No. 1 test cock to divert water leaking through No. 1 shutoff valve. Once the leak is diverted continue with 1g.
- T2. Open bleed valve arrangement until there is a drip at the No. 2 test cock.
 - If the leak can be compensated, record reading on field test kit for the check valve. Go to 2e.
 - If leak cannot be compensated, repair No. 1 shutoff valve and retest. Go to 2e.