TEST PROCEDURE FOR BACK SIPHONAGE BACKFLOW VACUUM BREAKER (SVB)

USING A 5 – VALVE DIFFERENTIAL PRESSURE GAUGE TEST KIT

Remove any dirt and foreign material by opening the test cock and flushing.

Test Objective: To determine the PSID at which the air inlet valve opens, to determine if the check valve will close tight and measure the static PSID across the check valve.

Location of Test Equipment: hold the test gauge and unused hose, level with the center of the vacuum breaker.

Test of check Valve

1. Remove the air inlet cover.
2. Connect the high side hose of the test gauge to the test cock. Test kit valves should be open.
3. Close the high side control valve.
4. Open the test cock on the vacuum breaker purging the air from the high side of the test gauge.
5. Close the high side bleed valve, the needle will peg at the high end of the scale.
6. Close shutoff valve # 2 slowly.
7. Close shutoff valve # 1.
8. Open vent screw on vacuum breaker. Water will flow out and the needle will fall to the low end of the scale. Observe the needle when water stops flowing.
9. If the needle holds steady at 1PSID or above, record the check valve as “closed tight. Also, record the static PSID observed on the test gauge. **Note:** If the needle does not hold steady at 1 PSID or above, you must record the check valve as “leaked.” The vacuum breaker has just failed the performance test.

Test of Air Inlet Valve

10. Open the high side bleed valve slowly, causing the needle to fall further. Observe the air inlet valve and record the reading at which it starts to open.

11. If the air inlet valve opened at 1 PSID or above record the PSID. **Note:** If the air inlet valve does not open at 1 PSID or above, you must record the actual PSID that it opened or that the air inlet valve did not open. The vacuum breaker just failed the performance test.

Note: If either the air inlet valve or the check valve fails the performance test you must clean and or repair the vacuum breaker and perform the final test.

12. Close the vacuum breaker vent screw.

13. Close the vacuum breaker test cock.

14. Open all valves on the test kit.

15. Remove the high side hose from the vacuum breaker test cock.

16. Drain hose and test kit to prevent freezing.

17. Open shutoff valve # 1.

18. Open shutoff valve # 2.

19. Dry the entire assembly and inspect for any leakage from the test cock, air inlet and shutoff valve packing's. The vacuum breaker must be holding pressure with no leakage when you are finished testing.

20. Replace the air inlet cover.

21. Complete, sign and distribute the cross connection control assembly performance test form.