

TEST NO. 1**BACK SIPHONAGE BACKFLOW VACUUM BREAKER****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 kit and unused hoses level with the center of the vacuum breaker.

(SVB)

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

USING A 3-VALVE DIFFERENTIAL PRESSURE GAUGE TEST KIT**Test of Check Valve**

1. Remove the air inlet cover.
2. Connect the high side hose of the test kit to the test cock. Test kit valves should be open.
3. Close the low side control valve.
4. Open the test cock on the vacuum breaker purging air from the high side of the test kit.
5. Close the bypass control valve. The needle will peg at the high end of the scale.
6. Close shut-off valve No. 2 slowly to prevent water hammer.
7. Close shut-off valve No. 1.
8. Open the vent valve (screw) on the vacuum breaker. Water will flow out and the needle will fall to the low end of the scale.
9. If the needle holds steady at 1 PSID or above, record the check valve as "closed tight." Also, record the static PSID observed.
Note: If the needle does not hold steady at 1 PSID or above, you must record the check valve as "leaked" and the PSID observed. The vacuum breaker has just failed the performance test.

Test of Air Inlet Valve

10. When the needle on the test kit stabilizes, open the low side control valve slowly causing the needle to fall further. Observe the PSID at which the air inlet opens.
11. If the air inlet valve opened at 1 PSID or above, record the PSID.
Note: If the air inlet does not open at 1 PSID or above, you must record the actual PSID it opened or that the air inlet did not open. The vacuum breaker just failed the performance test.

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(SVB)**Test of Air Inlet Valve**

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

12. Close the vacuum breaker vent valve (screw).
13. Close the vacuum breaker test cock.
14. Open all valves on the test kit.
15. Remove hose from the vacuum breaker test cock.
16. Drain test kit to prevent freezing.
17. Open shut-off valve No. 1.
18. Open shut-off valve No. 2.
19. Dry the entire vacuum breaker and inspect for any leaking from the test cock, air inlet valve and shut-off valve packings. 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 device test form.