

**Abridged Version of the NEWWA Backflow Prevention Device Assembly Test Procedures for a  
DCV Utilizing a 3 Valve Test Kit**

**(DCVA) Double Check Valve Assembly (11 T)**

NOTE: A DCVA should be evaluated for a backpressure condition prior to conducting the test.

Test Check Valve Number One for Differential Pressure Across First Check Valve. (Minimum 1 PSID)

1. Close the downstream shut-off valve - Verify upstream shut off valve is open
2. Orientate the test kit - Close high and low control valves. Open the vent control valve.
3. Connect the high pressure hose to test cock #2 and the low pressure hose to test cock #3.
4. Open test cocks #2, #3 and bleed air from the test kit high and low control valves.
5. Record the differential pressure gauge reading. It should be a minimum of 1 PSID.
6. Close test cocks #2 and #3. Disconnect the hoses.

Test Check Valve Number Two for Differential Pressure Across Second Check Valve (Minimum 1 PSID)

7. Connect the high pressure hose to test cock #3 and the low pressure hose to test cock #4.
8. Open test cocks #3, #4 and bleed air from the test kit high and low control valves.
9. Record the differential pressure gauge reading. It should be a minimum of 1 PSID.
10. Close tests cocks #3 and #4. Disconnect the hoses.

No-Flow Tightness Validation Test (T)

11. Connect the high pressure hose to test cock #2 and the low pressure hose to test cock #3.
12. Open test cocks #2, #3 and bleed air from the test kit high and low control valves.
13. Bleed the vent hose and connect it to test cock #4; open test cock #4.
14. Open the high control valve on the test kit and close test cock #2 and observe the gauge reading. If the gauge reading holds steady, the device is in a no-flow condition. If the gauge reading drops to zero the device is in a flow condition and the downstream shut-off valve is recorded as leaking. Invalid test.



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