All American Backflow Prevention
(520)-820-7554

American Backflow Products Company (800)-575-9618

DC ASSEMBLY

#1 CHECK VALVE TEST

1. **NIIO** "Notify Identify Inspect Observe" **Notify** the customer you are there to test the assembly, **Identify** the assembly to ensure you are testing the correct one, **Inspect** the assembly for anything missing or broken, **Observe** the area around the assembly as well.
2. **Flush** TC's in any order #1, #2, #3, and #4
3. **Install** test fittings if not pre-installed.
4. **Attach** sight tube to TC #3.
5. **Install** bleed valve tool and high side hose to TC #2.
6. **Open** TC #2, then **Open** the high side bleed valve on gauge to remove air from gauge and hose, then **close** high side bleed valve
7. **Open** TC #3 and fill the sight tube, then **Close** TC #3.
8. **Close** SOV #2, **lift** the gauge to proper elevation. **(Which is the water level in the sight tube)** and then **Close** SOV #1.
9. **Slowly Open** TC #3, when water stops running from the sight tube **record this reading** as the #1 check valve value.

(Must be 1psi or more to pass)

10. **Close** TC's #2 and #3
11. O**pen** SOV #1 to re-pressurize the assembly.

#2 CHECK VALVE TEST

12. **Move** sight tube from TC #3 to TC #4.
13. **Move** bleed valve tool and high side hose from TC #2 to TC #3
14. **Open** TC #3, then **open** the high side bleed valve on gauge to remove air from gauge and hose, then **close** high side bleed valve.
15. **Open** TC #4 and fill sight tube, then **close** TC #4.
16. **Lift** gauge up to proper elevation, then **close** SOV #1.
17. **Slowly Open** TC #4, when water stops running from the sight tube **record this reading** as the #2 check valve value.

(Must be 1psi or more to pass)

18. **Close** all TC's **remove** equipment, **remove fittings if needed.**
19. **Open** SOV #1, and then slowly **open** SOV #2.

TEST IS COMPLETE

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RP ASSEMBLY

APPARENT READING

1. **NIIO** "Notify Identify Inspect Observe" **Notify** the customer you are there to test the assembly, **Identify** the assembly to ensure you are testing the correct one, **Inspect** the assembly for anything missing or broken, **Observe** the area around the assembly as well.
2. **Flush** Test cocks in this order, **OPEN** #4, #3, #2, #1. Then **CLOSE** in this order #1, #2, #3, #4
3. **Install** test fittings if not pre-installed.
4. **Attach** low side hose to TC #3, attach high side hose to TC #2, and loosely attach bypass hose to TC #4.
5. **Open** TC #3; **Open** low side bleed valve on gauge and **leave open**.
6. **Slowly Open** TC #2; **Open** high side bleed valve on gauge and **leave open**.
7. **Close** in this order: SOV #2, high side bleed valve, then low side bleed valve. **(Observe and record the apparent reading, must be 5psi or more to continue)**

RELIEF VALVE **(RV)** OPENING POINT

8. **Open** the high side **control valve** 1 turn. **(Leave Open for the remainder of the test) Open** the low side control valve **no more** than ¼ turn. When gauge reading starts to drop observe the **RV** for discharge. When the **RV** starts to drip record this reading as the **RV** opening point. **(Relief must open at 2 psi or more to pass)**
9. **Close** low side control valve only.

#2 CHECK VALVE TEST

10. **Open** bypass control valve on gauge; bleed air from bypass hose; **then close** the bypass control valve
11. **Tighten** bypass hose to TC #4 and then **Open** TC #4.
12. **Open** low side bleed valve on gauge to reestablish the zone, then **Close** low side bleed valve.
13. **Open** the bypass control valve on gauge **one turn and leave open** for the remainder of the test, if gauge reading does not drop to the **RV** opening point record that the second check is closed tight.

#1 CHECK VALVE TEST

14. **Open** low side bleed valve on gauge to reestablish the zone, then **Close** low side bleed valve. When gauge settles record this reading as the differential pressure across check valve #1. **(Reading must be 5 psi or more, and above the RV opening point to pass)**
15. **Close** TC's, remove equipment, **remove fittings if needed.**
16. **Slowly** open SOV #2. TEST IS COMPLETE

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SVB ASSEMBLY

CHECK VALVE TEST

1. **NIIO** "Notify Identify Inspect Observe" **Notify** the customer you are there to test the assembly, **Identify** the assembly to ensure you are testing the correct one, **Inspect** the assembly for anything missing or broken, **Observe** the area around the assembly as well.
2. **Remove** the air inlet canopy.
3. **Flush** in any order TC and vent valve.
4. **Install** test fittings if not pre-installed.
5. **Attach** bleed valve tool and high side hose to TC #1, then **Open** TC #1.
6. **Open** high side bleed valve on gauge to remove the air from hose and gauge, then **Close** high side bleed valve.
7. **Close** SOV #2, lift gauge to proper elevation, **(which is level with the body of the assembly) (maintain gauge at this level for the remainder of the test)**, **Close** SOV #1.
8. **Slowly open** and **remove** the vent valve screw. When gauge reading settles **record this reading** as the check valve holding point. **(Watch the air inlet to see if it opens before the check valve holding point, if the air inlet opens then also record air inlet opening point). (Must be 1psi or more to pass)**

AIR INLET TEST

9. **Maintain** gauge at proper elevation.
10. **Slowly Open** high side bleed valve and watch both the needle on gauge and the air inlet. When air inlet opens **record this reading** as the air inlet value.

(Must be 1psi or more to pass)

11. **Remove** the high side hose and bleed tool from TC#1. To **drain** all the water from the body of assembly.
    (Observe and record that the air inlet opens all the way)
12. **Close** TC and insert and **close** vent valve screw,
    (remove fitting if needed)
13. **Open** SOV #1, and then slowly **Open** SOV #2.
14. **Replace** canopy. TEST IS COMPLETE

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PVB ASSEMBLY

AIR INLET TEST

1. **NIIO** "Notify Identify Inspect Observe" **Notify** the customer you are there to test the assembly, **Identify** the assembly to ensure you are testing the correct one, **Inspect** the assembly for anything missing or broken, **Observe** the area around the assembly as well.
2. **Remove** the air inlet canopy.
3. **Flush** TC's in any order #1 and #2.
4. **Install** test fittings if not pre-installed.
5. **Attach** bleed valve tool and high side hose to TC #2, then **Open** TC #2.
6. **Open** high side bleed valve on gauge to remove the air from hose and gauge, then **Close** high side bleed valve.
7. **Close** SOV #2; **lift** gauge to proper elevation, **(Which is level with the body of the assembly)** then **close** SOV #1.
8. **Slowly Open** high side bleed valve and watch both the needle on gauge and the air inlet. When the air inlet opens **record this reading** as the air inlet value.

(Must be 1psi or more to pass)

9. **Remove** the high side hose and bleed tool from TC#2.
10. **Drain** all the water from the body of assembly.
    (Observe and record that the air inlet opens all the way)
11. **Close** the high side bleed valve on gauge then **Close** TC #2.
12. **Open** SOV #1 to re-pressurize the assembly.

CHECK VALVE TEST

13. **Attach** bleed valve tool and high side hose to TC #1. **Open** TC#1.
14. **Open** high side bleed valve on gauge to remove the air from hose and gauge, then **Close** high side bleed valve.
15. **Lift gauge to proper elevation,** then **Close** SOV #1.
16. **Slowly** open TC #2. When water stops flowing from TC #2, **record this reading** as the check valve value.

(Must be 1psi or more to pass)

17. **Close** TC's, **remove** equipment, **remove fittings if needed.**
18. **Open** SOV #1, and then slowly **Open** SOV #2.
19. **Replace** canopy. TEST IS COMPLETE