



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
Quarterly Physical Connection Test & Maintenance Report

1 st Quarter <input type="checkbox"/> 01/01-03/31	2 nd Quarter <input type="checkbox"/> 04/01-06/30	3 rd Quarter <input type="checkbox"/> 07/01-09/30	4 th Quarter <input type="checkbox"/> 10/01-12/31
--	--	--	--

Instructions: This form is to be completed for each test of each approved valve. It is to be mailed to the Supplier of Water and Local Administrative Authority within 5 days of each test and inspection performed by a Certified Tester. These forms shall be kept at the facility for a period of 5 years (N.J.A.C. 7:10-10.2(f)) and be exhibited upon request.

Date of test ____/____/____

To: _____

From: (Name of Permit Holder) _____

The backflow prevention device identified below has been tested and inspected as required by N.J.A.C. 7:10-10.6 and is certified to be in compliance with this regulation.

<u>Description of Valve</u>	<u>Location of Valve</u>
Manufacturer: _____ <input type="checkbox"/> RPZ <input type="checkbox"/> DCVA	_____
Model Number: _____ Size: _____ in.	_____
Serial Number: _____	_____
Comments and Notations: _____	

Test Kit Serial # _____	PRESSURE TEST			INTERNAL INSPECTION		
	REDUCED PRESSURE ZONE ASSEMBLY			DOUBLE CHECK VALVE ASSEMBLY		
	DOUBLE CHECK VALVE		Relief Valve	1 st Check	2 nd Check	
1 st Check	2 nd Check					
Calibration Date _____	Closed Tight <input type="checkbox"/> at _____ psid		Closed Tight <input type="checkbox"/> at _____ psid	Opened at _____ psid	OK <input type="checkbox"/>	OK <input type="checkbox"/>
Initial Test	Leaked <input type="checkbox"/>		Leaked <input type="checkbox"/>	Did Not Open <input type="checkbox"/>	Failed <input type="checkbox"/>	Failed <input type="checkbox"/>
Passed <input type="checkbox"/>	No. 2 Shut-off Valve Closed Tight <input type="checkbox"/>		By-pass Used <input type="checkbox"/>			
Failed <input type="checkbox"/>	Repairs & Materials Used					
Test After Repair & Assembly	Closed Tight <input type="checkbox"/> _____ psid	Closed Tight <input type="checkbox"/> _____ psid	Opened at _____ psid	OK <input type="checkbox"/>	OK <input type="checkbox"/>	

The Results Shown Above are Certified to be True
 Certified Testers Name: _____
 Certified Testers Signature: _____
 Certifying Authority: _____
 Cert. ID #: _____ Exp. Date: ____/____/____
 Tester Phone No: _____

Witnesses to test and inspection
 Name: _____ Title: _____
 Representing: _____
 Name: _____ Title: _____
 Representing: _____

Test Procedure for Backflow Preventer Valve Assembly

Set Up Procedure for Testing

1. Verify that upstream shut-off valve No. 1 is open, and there is water pressure. Close downstream shut-off valve No. 2. **Note for Reduced Pressure Zone Valves:** *A discharge from the relief port indicates a leaking No. 1 check valve. If there is no discharge No. 1 check can be assumed to be holding tight.*
2. Flush test cocks Nos. 2, 3 & 4.
3. Close Test Kit high valve (A) and low valve (B), leave vent valve (C) open.

Reduced Pressure Zone Valve Assembly Test

- A) Test the **first check valve** for tightness at a minimum of 5 PSID of static pressure:
1. Connect high-pressure hose to test cock #2.
 2. Connect low-pressure hose to test cock #3.
 3. Open test cocks #2 & #3.
 4. Open test kit high valve (A) and bleed air and water through vent hose... Close high valve (A).
 5. Open test kit low valve (B) and bleed air and water through vent hose... Close low valve (B) **Slowly**.
 6. Observe stable differential pressure on gauge and record on test form. (Must be 5 PSID Minimum)
- B) Test the **second check valve** for tightness against backpressure:
1. Connect vent hose to test cock #4.
 2. Open test cock #4.
 3. Open test kit high valve (A)... **Slowly**.
 4. Observe gauge and record on test form. Second check is tight if differential pressure drops slightly and holds steady. If pressure continues to drop until relief port discharges second check is leaking.
- C) Test **No. 2 shut-off valve** for tightness:
1. Close test cock #2.
 2. Observe gauge, if #2 shut-off valve is tight gauge will hold steady, if leaking the differential pressure will fall. Record result on form.
- Note:** If No. 2 shut-off valve is leaking tests **A & B are invalid**; since the valve is not in a static condition. Another shut-off valve downstream or a temporary by-pass from test cock #1 to test cock #4 must be utilized.
- D) Test the operation of the **differential pressure relief valve:** Relief valve must open at a minimum of 2PSID below inlet.
1. Open test cock #2, test kit high valve (A) shall remain open and close test kit vent valve (C).
 2. **Slowly** open the test kit low valve (B) until the differential pressure begins to fall... **Slowly**.
 3. Observe the relief valve port for the first discharge of water and record the pressure differential on the gauge at this point on the form.

Double Check Valve Assembly Test

- A) Test the **first check valve** for a minimum of 1 PSID of static pressure drop:
1. Connect high-pressure hose to test cock #2.
 2. Connect low-pressure hose to test cock #3.
 3. Open test cocks #2 & #3.
 4. Open test kit high valve (A) and bleed air and water through vent hose... Close high valve (A).
 5. Open test kit low valve (B) and bleed air and water through vent hose... Close low valve (B) **Slowly**.
 6. Observe stable differential pressure on gauge and record on test form. (Must be 1 PSID Minimum)
- B) Test the **second check valve** for a minimum of 1 PSID static pressure drop: (close test cocks #2 & #3 and remove high & low-pressure hoses)
1. Connect high-pressure hose to test cock #3.
 2. Connect low-pressure hose to test cock #4.
 3. Open test cocks #3 & #4.
 4. Open test kit high valve (A) and bleed air and water through vent hose... Close high valve (A).
 5. Open test kit low valve (B) and bleed air and water through vent hose... Close low valve (B) **Slowly**.
 6. Observe stable differential pressure on gauge and record on test form. (Must be 1 PSID Minimum)
- C) Test **No. 2 shut-off valve** for tightness:
1. Repeat procedure for test A.
 2. Connect vent hose to test cock #4.
 3. Open test cock #4.
 4. Open test kit high valve (A) **Slowly**.
 5. Close test cock #2.
 6. Observe gauge, if #2 shut-off valve is tight gauge will hold steady, if leaking the differential pressure will fall. Record result on form.
- Note:** If No. 2 shut-off valve is leaking tests **A & B are invalid**; since the valve is not in a static condition. Another shut-off valve downstream or a temporary by-pass from test cock #1 to test cock #4 must be utilized.