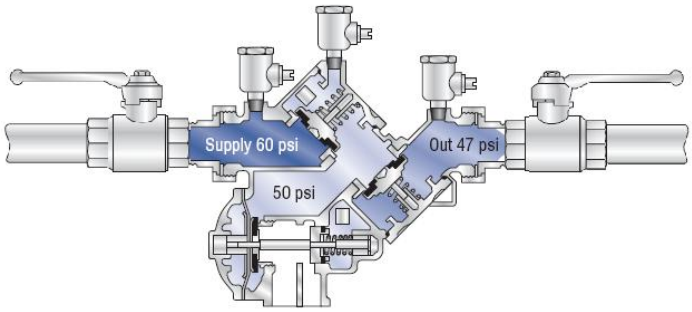
# RPZ Test Procedures – Short Form




## 1. Preliminary Steps:

a. Notify
b. Identify
c. Inspect
d. Observe

## 2. Purge Test Cocks:

a. Open # 4 test cock 100%
(Leave Open)
b. Open # 1 test cock, purge and close
c. Open # 2 test cock, purge and close
d. Open # 3 test cock, purge and close
e. Close # 4 test cock

## 3. Close Valves on Gauge and Connect Hoses:

a. Close all Valves on Gauge
b. Install Fittings in test cocks using Teflon Tape
c. Connect High Hose to # 2 test cock
d. Connect Low Hose to # 3 test cock

## 4. Purge Air From Hoses, (Start with Low, End with Low):

a. Open # 3 test cock
b. Open Low Bleed Valve, (Leave Running)
c. Open # 2 test cock
d. Open High Bleed, Purge Air and Close High Bleed Valve, (Pointer Pegs)
e. Close Low Bleed, (Pointer falls to mid-range)

## 5. Close Shut Off Valve and Get Apparent Reading:

a. Close # 2 Shut Off Valve
b. Record Gauge Reading as Apparent Reading, (AR)

## 6. Test # 1: Differential Pressure Relief Valve:

**Test Requirement: Has to keep the Zone at Least 2 psi Less than Supply**

a. Open High Control, (High Control Remains On Throughout the Test)
b. Place Hand Under Relief Valve Dump Port
c. Open Low Control, (Establish a Slow Steady Drop of the Pointer)
d. When the Pointer Stops and Water is Dripping on Hand, Read the Gauge
e. Close the Low Control, (Low Control Remains Closed)
f. Record the reading as the Relief Valve Opening Point, (RVOP)
g. Evaluate Reading, (2 psi or more – pass; less than 2 psi – fail)

## 7. Test # 2: Check # 2 Check Valve for Tightness Against Backpressure:

**Test Requirement: Must Hold Tight Against Backpressure**

a. Connect Bypass hose loosely to # 4 test cock
b. Open Bypass Valve on Gauge to purge Air from Hose
c. When Air Has Been Purged:
    1. Close Bypass Valve
    2. Tighten Loose Connection
    3. Open # 4 test cock
d. Normalize the Zone, (Open Low Bleed, Peg the Gauge, Close Low Bleed)
e. Perform the Test, (Open Bypass Valve)
f. Evaluate Gauge Reading, (Gauge Reading must be above the RVOP)
g. Record the reading

## 8. Test # 3: # 1 Check Valve, (Bleed and Read):

**Test Requirement: Should Be At Least 3 psi More Than the RVOP**
**Alternate Test Requirement: Must Be Above the RVOP and in No Case Less Than 5 psi**

a. Open Low Bleed
b. Peg the Gauge
c. Close Low Bleed
d. Read the Gauge
e. Evaluate Gauge Reading, (# 1 Check Valve should be at least 3 psi more than the RVOP, However, a reading of less than 3 psi above the RVOP does not indicate a leaking check valve.)
f. Record the reading

## 9. Remove Equipment:

a. Close test cocks
b. Open # 2 Shut Off Valve
c. Disconnect hoses
d. Open All Valves on Gauge and Drain Gauge
e. Remove Fittings
f. Place Gauge, Hoses and Fittings in Box
g. Complete the Test Repair Form and File Appropriately