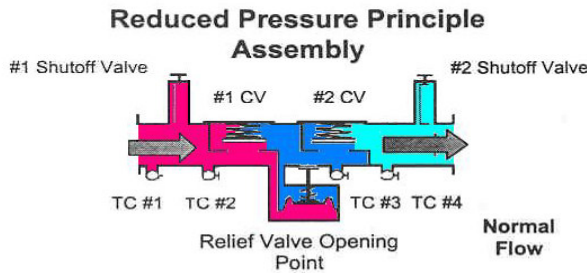


# RP TEST PROCEDURES

per Ninth Edition of FCCC&HR (USC) Manual



Protects against **backsiphonage** and **backpressure**

Protects against **pollutants** and **contaminants**

Must be at least 12" above grade with 24" clearance on test cock side.

Has two check valves, a mechanically independent pressure differential relief valve, two shutoff valves, four test cocks.

## **NOTIFY \* IDENTIFY \* INSPECT \* OBSERVE**

### Five Needle Valve Test Procedure

#### **TEST NO. 1 : RELIEF VALVE OPENING**

1. Open test cock #4, leave open then flush through test cocks #1, #2 **slowly** and #3. Opening and closing them one at a time.
2. Close test cock #4, attach fitting if needed.
3. Attach hose from the high side of the gage to test cock # 2.
4. Attach hose from the low side of the gage to test cock # 3.
5. Open test cock #3 **slowly**, then bleed from Low Side Bleed valve, leave open
6. Open test cock #2 **slowly**, then the High Side Bleed valve to bleed air from hose and gage.
7. Close High Side Bleed needle valve, then Low Side Bleed needle valve.
8. Close the #2 Shutoff Valve. Observe the apparent reading **make note on paperwork.**
9. Open the High Side needle valve one full turn, and then slowly open the Low Side Needle valve **no more than a ¼ turn.** Put hand under the relief valve. When it drips, **Record the reading.** Must be 2 psi or higher
10. Close the Low Side control needle valve. Leaving High Side control needle open.

#### **TEST NO. 2 : #2 CHECK VALVE**

1. Install bypass (vent) hose to test cock #4, **loosely.** Open Vent valve to bleed air from hose. Close Vent valve and tighten hose connection. Open test cock #4
2. Open the Low Side bleed needle valve to reestablish pressure within the zone. when the gage reading is above the apparent pressure drop reading, (upper end of the scale) close the Low Side bleed valve.
4. Open the bypass (vent) needle valve. If the relief valve does not drip, record the second Check valve as "**closed-tight**". Test cock #4 & bypass (vent) stay open.

#### **TEST NO. 3: #1 CHECK VALVE**

1. Open the Low Side Bleed needle valve to re-establish #1 check valve differential  
Close the Low Side Bleed needle valve.  
**Record the Actual Pressure Differential.**
2. Close test cocks and remove test equipment. **Slowly** open Shutoff Valve #2.