

DUKE'S MINIMUM REQUIREMENTS FOR BACKFLOW TEST KIT PERFORMANCE & CALIBRATION CERTIFICATE.

1. **HIGH PRESSURE LEAK TEST** (Determines overall test kit performance.
If test kit leaks it will not test accurately).

Pressurize TEST KIT to approximately 100 PSI. Close all needle valves and disconnect pressure source from test kit. Carefully reduce LOWSIDE pressure approximately 7PSI. Check differential reading. Wait 10 seconds. Check reading again. IF THE

DIFFERENTIAL DOES NOT REMAIN THE SAME THERE IS A TEST KIT LEAKAGE THAT MUST BE REPAIRED.

TEST KIT MUST BE BUBBLE TIGHT TO TEST BACKFLOW ASSEMBLIES

Ref: FFCCC&HR-USC Manual 9th ed. (Page 123).

2. **LOW PRESSURE DIFFERENTIAL TEST AT 1.0, 2.0 & 3.0 PSI** (used for testing DC & PVB Backflow Assemblies).

Open LOWSIDE vent valve to atmosphere. Through a Water Column or reference Gauge, pressurize the HIGHSIDE of the test kit to 3.0 PSI. Both should read the same.

Reduce pressure to 2.0 PSI and again both should read the same.

Reduce pressure to 1.0 PSI and again both should read the same.

3. **HIGH PRESSURE DIFFERENTIAL TEST** (used for testing RP Assemblies).

Through the reference Gauge, pressurize the test kit to approximately 100 PSI.

Lower the LOWSIDE of the test kit by approximately 2.0 PSI.

BOTH SHOULD READ THE SAME PRESSURE DIFFERENTIAL.

Lower the LOWSIDE of the test kit by approximately 8.0 PSI.

BOTH SHOULD READ THE SANE PRESSURE DIFFERENTIAL.

ACCURACY: +/- 0.2 PSID Ref- FFCCC&HR-USC Manual 9th ed. (.Page 122).