

## MID-WEST INSTRUMENT 855 BACKFLOW TEST KIT

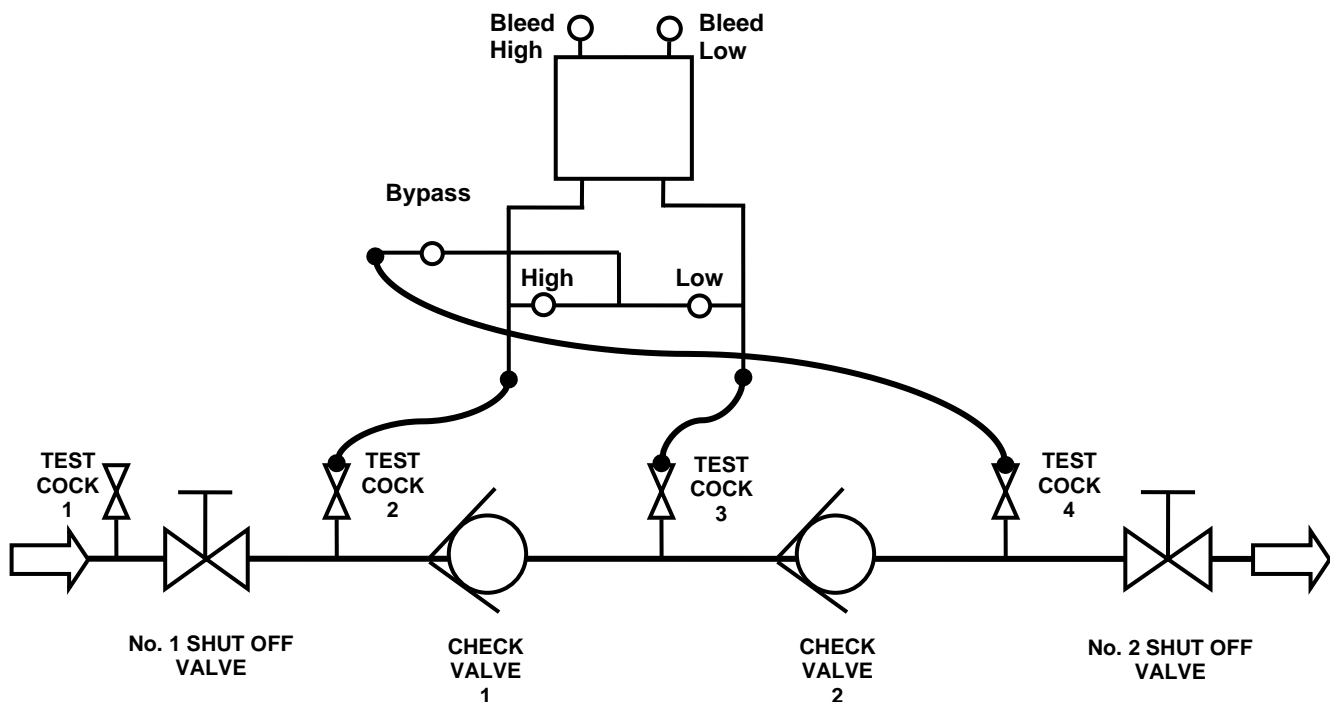
### 2 HOSE DOUBLE CHECK VALVE ASSEMBLY TEST PROCEDURE

NOTE: IT IS THE TESTER'S RESPONSIBILITY TO DETERMINE IF THIS PROCEDURE IS ACCEPTED BY LOCAL AUTHORITIES.

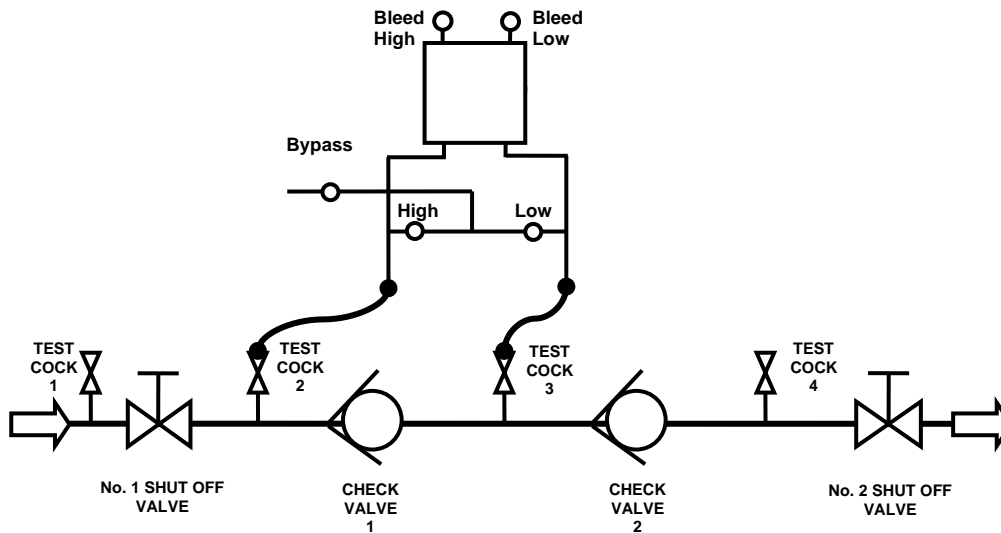
#### TEST SET UP:

1. Obtain permission to shut off the water supply.
2. Determine the direction of flow.
3. Identify and install appropriate adapters in all 4 test cocks. **"BLOW OUT" ALL 4 TEST COCKS.**
4. Close all test kit valves are closed.

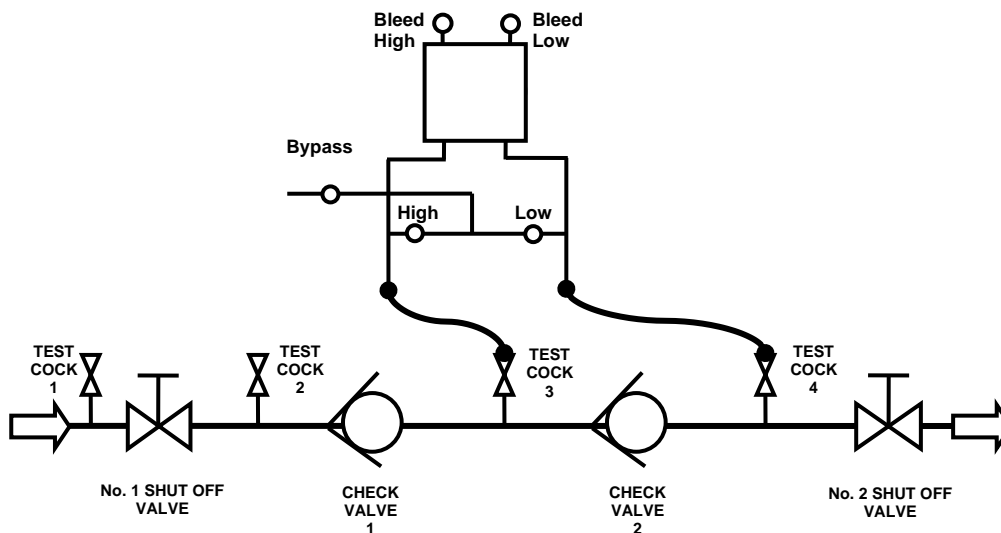
#### TEST NO. 1 - IS SHUT OFF VALVE NO. 2 PRESSURE TIGHT?



1. Connect the red hose between test cock 2 and the high side connection on the test kit.
2. Connect the blue hose between test cock 3 and the low side connection on the test kit.
3. Open test cocks 2 and 3.
4. Bleed the high side of the test kit.
5. Bleed the low side of the test kit.
6. Connect the yellow hose to test cock 4. Open test cock 4 to bleed air from the hose. Close test cock 4.
7. Connect the yellow hose to the bypass connection on the test kit. Open test cock then close the No. 2 shut off valve.
8. The gauge should read a minimum of 1 PSID.
9. Open the high and bypass valves.
10. Close test cock 2.
11.
  - If the gauge reading holds steady, slide the toggle button from "Leaking" to "Closed Tight". (Proceed to Test No. 2).
  - If the gauge reading drops to zero, note shut off valve #2 is leaking downstream in "Comments".
  - If the gauge reading increases, note shut off valve # 2 is leaking under back pressure in "Comments".
12. The check valves cannot be tested with this procedure unless a no-flow condition can be achieved through repair of shut off valve No. 2 or additional downstream shut-off. Leave the toggle switch as "Leaking."

**TEST NO. 2 - IS THE STATIC PRESSURE DROP ACROSS CHECK VALVE 1 AT LEAST 1 PSID?**

1. Close the high control and bypass valves.
2. Close test cock 4.
3. Disconnect the bypass yellow hose from test cock 4 and the test kit.
4. Open test cock 2.
5. Bleed the high side of the test kit.
6. Bleed the low side of the test kit.
7. Tap the "CAPTURE" button to record the reading. Slide the toggle button from "Leaking" to "Closed Tight". A "CAPTURED" reading 1 PSID or higher is a pass.
8. Close test cocks 2 and 3.
9. Disconnect hoses from test cocks.

**TEST NO. 3 - IS THE STATIC PRESSURE DROP ACROSS CHECK VALVE 2 AT LEAST 1 PSID?**

1. Connect high (red) hose to test cock 3.
2. Connect low (blue) hose to test cock 4.
3. Open test cocks 3 and 4.
4. Bleed the high side of the test kit.
5. Bleed the low side of the test kit.
6. Tap the "CAPTURE" button to record the reading. Slide the toggle button from "Leaking" to "Closed Tight". A "CAPTURED" reading 1 PSID or higher is a pass.
7. If both Check Valve readings are greater than 1 PSID slide "Test Results" toggle from "Failed" to "Passed".
8. Close all test cocks. Open No. 2 shut off valve. Remove all Test equipment.
9. **OPEN ALL TEST KIT VALVES TO DRAIN TEST KIT.**