

TEST NO. 1

DOUBLE CHECK VALVE ASSEMBLY



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 all 4 test cocks.
4. All test kit valves are closed.

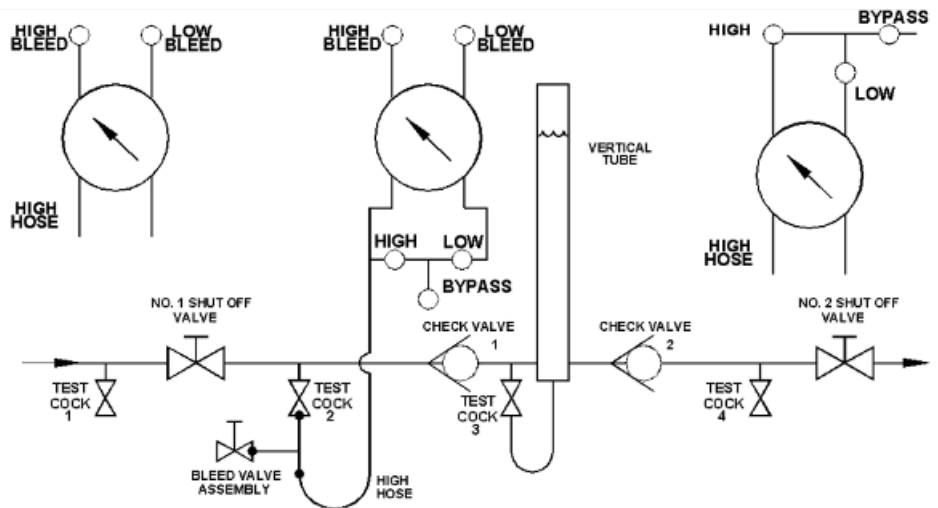
IMPORTANT:

THE TEST KIT AND HOSE MUST BE HELD AT THE PROPER LEVEL.

NOTE: THE BLEED VALVE ASSEMBLY AND THE VERTICAL TUBE ASSEMBLY ARE NOT INCLUDED WITH THE TEST KIT.

DETERMINE THE STATIC PRESSURE DROP ACROSS CHECK VALVE #1.

REQUIREMENT: #1 CHECK VALVE PRESSURE DROP SHALL BE AT LEAST 1.0 PSID.



1. Install a vertical tube to test cock 3 that rises above check valve body unless test cock 3 is highest point of the check valve body.
2. Attach a bleed valve assembly to test cock 2 and high hose of test kit to bleed valve assembly.
3. Open test cock 2 and bleed test kit by opening high side bleed valve. (High and by-pass valves on a 3-valve test kit). Close high side bleed valve. (High valve on 3-valve test kit).
4. Open test cock 3 to fill the vertical tube or test cock, then close test cock 3.
5. Close #2 shut off valve, then close #1 shutoff valve.
6. With the test kit and hoses at the same height as the water in the tube or test cock 3, slowly open test cock 3.
 - a.) Water stops running – record #1 check valve pressure drop. Proceed to step 8 of this test.
 - b.) Water continues to flow from test cock 3. Proceed to step 7 of this test.
 - c.) Water recedes from test cock 3. Lower the test kit to the center line of the assembly and record #1 check valve pressure drop. Record #2 check valve and #2 shutoff valve as leaking.

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3. Identify all 4 test cocks.
4. All test kit valves are closed.

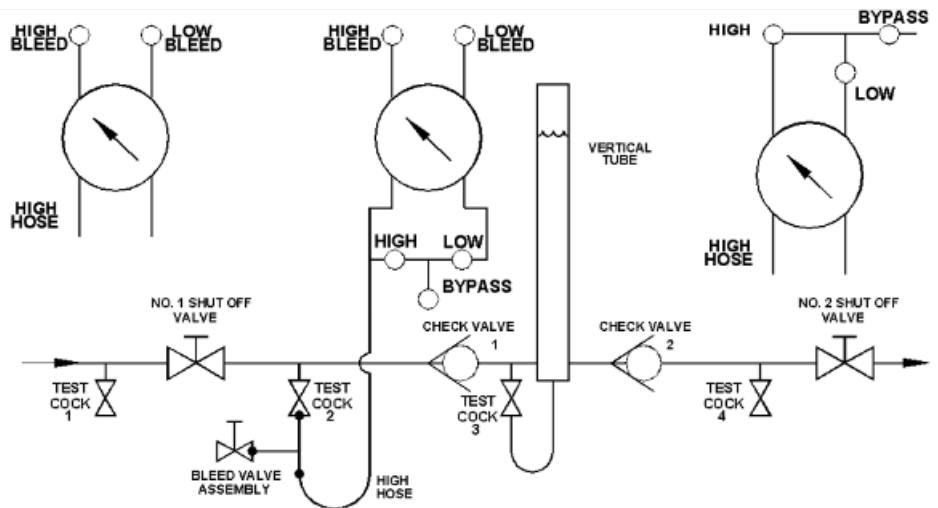
IMPORTANT:

THE TEST KIT AND HOSE MUST BE HELD AT THE PROPER LEVEL.

NOTE: THE BLEED VALVE ASSEMBLY AND THE VERTICAL TUBE ASSEMBLY ARE NOT INCLUDED WITH THE TEST KIT.

DETERMINE THE STATIC PRESSURE DROP ACROSS CHECK VALVE #1.

REQUIREMENT: #1 CHECK VALVE PRESSURE DROP SHALL BE AT LEAST 1.0 PSID.



7. Observe the test kit reading, then slowly open the bleed valve assembly.
 - a.) If the bleed valve assembly can be adjusted so there is a slight drip from test cock 3 and flow from the bleed valve assembly, then record the test kit reading as the #1 check valve pressure drop. Proceed to step 8 of this test.
 - b.) If the bleed valve assembly can not be adjusted to allow a slight drip from test cock 3, then the leaky #1 shutoff valve must be repaired before the test may be completed.
 - c.) If water does not continue to flow from the bleed valve assembly with water still flowing from test cock 3, record the test kit reading as the #1 check valve pressure drop. Record #2 check valve as leaking and #2 shutoff valve leaking under back pressure.
8. Close all test cocks, open #1 shutoff valve, and remove all test equipment.

TEST NO. 2

DOUBLE CHECK VALVE ASSEMBLY



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 all 4 test cocks.
4. All test kit valves are closed.

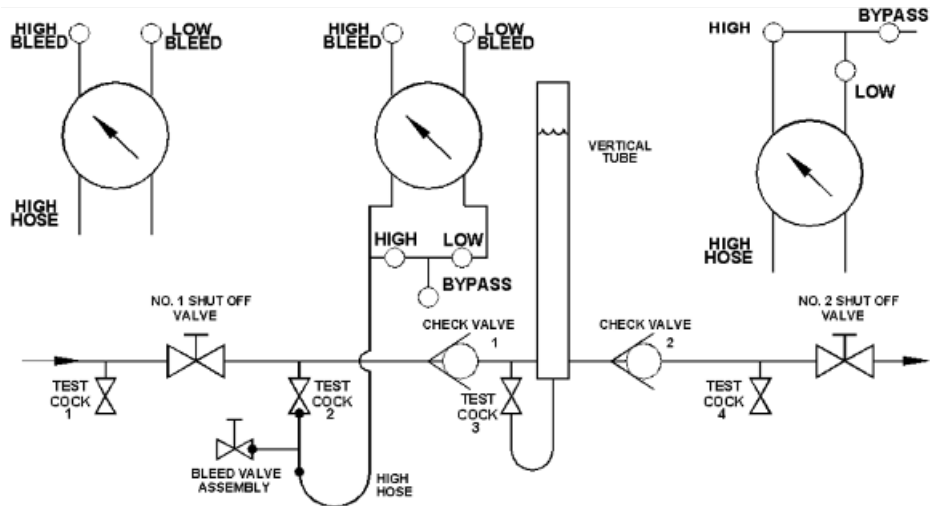
IMPORTANT:

THE TEST KIT AND HOSE MUST BE HELD AT THE PROPER LEVEL.

NOTE: THE BLEED VALVE ASSEMBLY AND THE VERTICAL TUBE ASSEMBLY ARE NOT INCLUDED WITH THE TEST KIT.

DETERMINE THE STATIC PRESSURE DROP ACROSS CHECK VALVE #2

REQUIREMENT: #2 CHECK VALVE PRESSURE DROP SHALL BE AT LEAST 1.0 PSID



1. Install a vertical tube to test cock 4 that rises above the check valve body unless test cock 4 is the highest point of the check valve body.
2. Attach a bleed valve assembly to test cock 3 and high hose of test kit to bleed valve assembly.
3. Open test cock 3 and bleed test kit by opening high side bleed valve. (High valve on a 3-valve test kit). Close high side bleed valve. (High valve on 3-valve test kit).
4. Open test cock 4 to fill the vertical tube or test cock, then close test cock 4.
5. Close #1 shut off valve.
6. With the test kit and hoses at the same height as the water in the tube or test cock 4, slowly open test cock 4.
 - a.) Water stops running – record #2 check valve pressure drop. Proceed to step 8 of this test.
 - b.) Water continues to flow from test cock 4. Proceed to step 7 of this test.

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TEST NO. 2

DOUBLE CHECK VALVE ASSEMBLY



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3. Identify all 4 test cocks.
4. All test kit valves are closed.

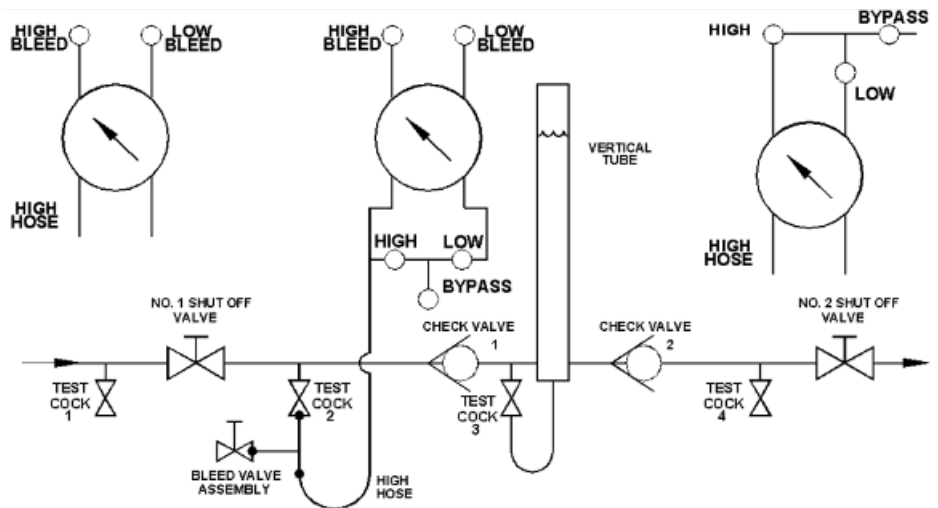
IMPORTANT:

THE TEST KIT AND HOSE MUST BE HELD AT THE PROPER LEVEL.

NOTE: THE BLEED VALVE ASSEMBLY AND THE VERTICAL TUBE ASSEMBLY ARE NOT INCLUDED WITH THE TEST KIT.

DETERMINE THE STATIC PRESSURE DROP ACROSS CHECK VALVE #2

REQUIREMENT: #2 CHECK VALVE PRESSURE DROP SHALL BE AT LEAST 1.0 PSID



- c.) Water recedes from test cock 4. Lower the test kit to the center line of the assembly and record #2 check valve pressure drop. Note #2 shutoff valve is leaking. Proceed to step 8 of this test.
7. Observe the test kit reading, then slowly open the bleed valve assembly.
 - a.) If the bleed valve assembly can be adjusted so there is a slight drip from test cock 4 and flow from the bleed valve assembly, then record the test kit reading as the #2 check valve pressure drop. Proceed to step 8 of this test.
 - b.) If water does not continue to flow from the bleed valve assembly with water still flowing from test cock 4, record the test kit reading as the #2 check valve pressure drop. Note the #2 shutoff valve is leaking under back pressure. Proceed to step 8 of this test.

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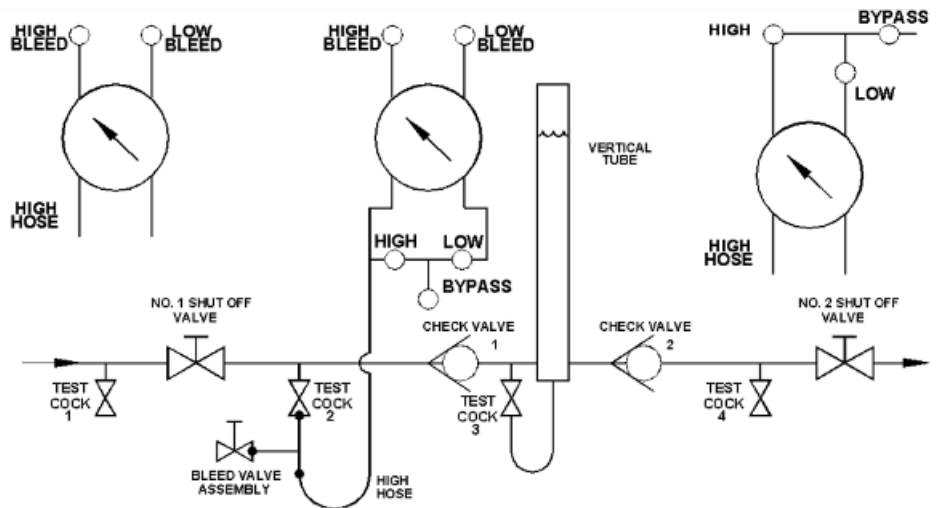
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NOTE: THE BLEED VALVE ASSEMBLY AND THE VERTICAL TUBE ASSEMBLY ARE NOT INCLUDED WITH THE TEST KIT.

DETERMINE THE STATIC PRESSURE DROP ACROSS CHECK VALVE #2

REQUIREMENT: #2 CHECK VALVE PRESSURE DROP SHALL BE AT LEAST 1.0 PSID



c.) If it is not possible to adjust the bleed valve assembly to allow a slight drip at #4 test cock, check #1 shutoff to make sure it is closed tight. If a slight drip can not be obtained at test cock 4, AND test #1 passed, close the bleed valve assembly, and open test cock 2. Record the test kit reading as the #2 check valve pressure drop.

8. Close all test cocks and remove all test equipment.
9. Open #1 shutoff valve, then slowly open #2 shutoff valve.
10. Open all test kit valves.
11. DRAIN TEST KIT.