

**ASSE International
Product (Seal) Listing Program**

ASSE 1024-2017
Performance Requirements for Dual Check Backflow Preventers

Manufacturer: _____

Contact Person: _____ **E-mail:** _____

Address: _____

Laboratory: _____ **Laboratory File Number:** _____

Model # Tested: _____

Model Size: _____

Additional models report applies to: _____

Additional Model Information (i.e. orientation, series, end connections, shut-off valves)

Date models received by laboratory: _____ **Date testing began:** _____

Date testing was completed _____

If models were damaged during shipment, describe damages:

Prototype or production sample? _____

Were all tests performed at the selected laboratory? Yes No

If offsite, identify location: _____

General information and instructions for the testing engineer:

The results within this report apply only to the models listed above.

There may be items for which the judgment of the test engineer will be involved. Should there be a question of compliance with that provision of the standard, a conference with the manufacturer should be arranged to enable a satisfactory solution of the question.

Should disagreement persist and compliance remain in question by the test agency, the agency shall, if the product is in compliance with all other requirements of the standard, file a complete report on the questionable items together with the test report, for evaluation by the ASSE Seal Control Board. The Seal Control Board will then review and rule on the question of compliance with the intent of the standard then involved.

Documentation of material compliance must be furnished by the manufacturer. The manufacturer shall furnish to the testing agency, a bill of material which clearly identifies the material of each part included in the product construction. This identification must include any standards which relate thereto.

Section I

1.0 General

1.1 Application

Is the purpose of the device, as described by the manufacturer, as stated in this section?

- Yes
 No
 Questionable

If questionable, explain: _____

1.2 Scope

1.2.1 Description

Does the device conform to the product described in the standard?

- Yes
 No
 Questionable

If questionable, explain: _____

1.2.2 Size Range

Did the product comply with the sizes stated?

- Yes
 No

1.2.3 Pressure Range

What is the working pressure as stated by the manufacturer?

_____ psi (_____ kPa)

1.2.4 Temperature Range

Is this device designed for cold water service or hot water service?

- Cold water
 Hot water

(a) What is the cold water service range as stated by the manufacturer?

_____ °F to _____ °F (_____ °C to _____ °C).

(b) What is the hot water service range as stated by the manufacturer?

_____ °F to _____ °F (_____ °C to _____ °C).

1.2.5 Flow Capacity

Does the device meet the minimum water flow capacities at or below the maximum pressure loss specified in Section 3.4?

- Yes
 No
 Questionable

If questionable, explain: _____

Is this section compliance?

- Yes
- No
- Questionable

If questionable, explain: _____

Section II

2.0 Test Specimens

2.1 Samples Submitted for Test

State the quantity of units provided for the evaluation. _____

2.2 Samples Tested

How many units were utilized during the laboratory evaluation? _____

If more than one (1) unit was used, explain: _____

2.3 Drawings

Were assembly drawings, installation drawings and other technical data which are needed to enable a testing agency to determine compliance with this standard submitted with the valve?

- Yes
- No

Were these drawings reviewed in the laboratory?

- Yes
- No

Section III

3.0 Performance Requirements and Compliance Testing

3.1 Connection Torque

What was the pressure used during the torque test? _____ psi (_____ kPa)

What was the torque applied? _____ Lbf-inch (_____ N•m)

The torque was applied for _____ minutes.

Was there any indication of damage the prevents full compliance with any part of the standard?

- Yes
- No
- Questionable

If questionable, explain: _____

Is this section in compliance?

- Yes
- No
- Questionable

If questionable, explain: _____

3.2 Deterioration at Extremes of Manufacturer's Temperature and Pressure

What was the lower temperature used for testing this section? _____ °F (_____ °C)

What was the pressure used for testing this section? _____ psi (_____ kPa)

What was the cumulative time the water circulated through the device at the lower temperature? _____ hours

What was the higher temperature used for testing this section? _____ °F (_____ °C)

What was the pressure used for testing this section? _____ psi (_____ kPa)

What was the cumulative time the water circulated through the device at the higher temperature? _____ hours

Was there any indication of change in physical characteristics of the materials that prevented full compliance with all requirements of the standard?

- Yes
- No
- Questionable

If questionable, explain: _____

Is this section in compliance?

- Yes
- No
- Questionable

If questionable, explain: _____

3.3 Hydrostatic Test of Complete Device

What was the pressure used for this test? _____ psi (_____ kPa)

The test period was for _____ minutes.

Were there any external leaks or other damage?

- Yes
- No

Is this section in compliance?

- Yes
- No
- Questionable

If questionable, explain: _____

3.4 Hydrostatic Leakage Tests of Check Valves

3.4.2.1 Upstream Check Valve

Was the downstream check valve held partially open? Yes
 No

What was the water level in the sight glass? _____ in (_____ mm)

What was the pressure applied to the downstream side of the upstream check valve? _____ psi (_____ kPa)

What was the water level in the sight glass? _____ in (_____ mm)

How long was this pressure held for? _____ minutes

3.4.2.2 Downstream Check Valve

Was the upstream check valve held partially open? Yes
 No

What was the water level in the sight glass? _____ in (_____ mm)

What was the pressure applied to the downstream side of the downstream check valve? _____ psi (_____ kPa)

What was the pressure on the upstream side of the downstream check valve? _____ psi (_____ kPa)

What was the water level in the sight glass? _____ in (_____ mm)

How long was this pressure held for? _____ minutes

Were there any leaks or rise in the water level of the sight glass? Yes
 No
 Questionable

Is this section in compliance? Yes
 No
 Questionable

If questionable, explain: _____

3.5 Flow and Pressure Loss

What was the inlet pressure? _____ psi (_____ kPa)

What was the rated flow used? _____ GPM (_____ L/s)

What was the maximum pressure loss observed up to and including the rated flow? _____ psi (_____ kPa)

Is this section in compliance?

- Yes
- No
- Questionable

If questionable, explain: _____

3.6 Drip Tightness of Check Valves

3.6.2 Drip Tightness of Inlet Check Valve

Was the downstream check valve held partially open?

- Yes
- No

What was the beginning level of the water in the sight glass?

_____ inches (_____ mm)

The test period was for _____ minutes.

What was the final level of the water in the sight glass?

_____ inches (_____ mm)

Is this section in compliance?

- Yes
- No
- Questionable

If questionable, explain: _____

3.6.3 Drip Tightness of Outlet Check Valve

Was the upstream check valve held partially open?

- Yes
- No

What was the beginning level of the water in the sight glass?

_____ inches (_____ mm)

The test period was for _____ minutes.

What was the final level of the water in the sight glass?

_____ inches (_____ mm)

Is this section in compliance?

- Yes
- No
- Questionable

If questionable, explain: _____

3.7 Check Valve Operation

Did the complete movement of one check valve affect the operation or position of the other check valve assembly or seal?

- Yes
- No
- Questionable

If questionable, explain: _____

Is this section in compliance?

- Yes
- No
- Questionable

If questionable, explain: _____

3.8 Dual Check Valve Integrity at Maximum Intermittent Rated Flow

What was the flow rate? _____ GPM (_____ L/min)

What was the corresponding pressure used for this test? _____ psi (_____ kPa)

The test period was for _____ minutes.

Were there any external leaks or other indications of damage?

- Yes
- No

Retest to Section 3.6 (note that the standard states that Section 3.5 be retested; however, this was an editorial error from the previous revision):

3.6.2 Drip Tightness of Inlet Check Valve

Was the downstream check valve held partially open?

- Yes
- No

What was the beginning level of the water in the sight glass?

_____ inches (_____ mm)

The test period was for _____ minutes.

What was the final level of the water in the sight glass?

_____ inches (_____ mm)

3.6.3 Drip Tightness of Outlet Check Valve

Was the upstream check valve held partially open?

- Yes
- No

What was the beginning level of the water in the sight glass?

_____ inches (_____ mm)

The test period was for _____ minutes.

What was the final level of the water in the sight glass?

_____ inches (_____ mm)

Is this section in compliance?

- Yes
- No
- Questionable

If questionable, explain: _____

Section IV

4.0 Detailed Requirements

4.1 Materials

Is this device intended to convey or dispense water for human consumption through drinking or cooking?

- Yes
- No

If yes, does the product have a weighted average lead content in excess of 0.25% when evaluated in accordance with NSF/ANSI 372?

- Yes
- No

Did the solder and fluxes used contain more than 0.2% lead?

- Yes
- No

Did any metal alloys contain over 8% of lead?

- Yes
- No

4.1.1 Were non-ferrous cast parts in compliance?

- Yes
- No

4.1.2 Were bodies and non-cast parts in compliance?

- Yes
- No

4.1.3 Were springs in compliance?

- Yes
- No

4.1.4 Were flexible and non-metallic parts in compliance?

- Yes
- No

4.1.5 Were the metal to metal seating in compliance?

- Yes
- No

4.1.6 Are seat rings in compliance?

- Yes
- No

- 4.1.7 Are end connections in compliance? Yes
 No
- 4.1.7.1 Are tapered threads (if applicable) in compliance? Yes
 No
- 4.1.7.2 Are dryseal threads (if applicable) in compliance? Yes
 No
- 4.1.7.3 Are flange connections (if applicable) in compliance? Yes
 No
- 4.1.7.4 Other connections (if applicable)
 Do these connections comply with an industry approve standard? Yes
 No

4.2 Reparability

- (a) Are the internal parts of the device accessible? Yes
 No
 Questionable

If questionable, explain: _____

- (b) Are all replaceable parts of the same size and model interchangeable with the original part?

- Yes
 No
 Questionable
 N/A

If questionable, explain: _____

4.3 Instructions for Marking and Installations

4.3.1 Marking of Devices

- 4.3.1.1 List the markings found on the device:

- a. _____
 b. _____
 c. _____
 d. _____
 e. _____
 f. _____
 g. _____

- Are the markings visible in the installed position?

- Yes
 No

- 4.3.1.2 How were the markings applied?

4.3.2 Installation Instructions

4.3.2.1 Were complete instructions for installation and drawings or schematics, which are required for the correction installation packaged with the device? Yes
 No

4.3.2.2 Were field repair instructions submitted? Yes
 No
 Questionable

If questionable, explain: _____

Is Section 4.0 in compliance? Yes
 No
 Questionable

If questionable, explain: _____

LISTED LABORATORY: _____

ADDRESS: _____

PHONE: _____ FAX: _____

TEST ENGINEER(S): _____

If applicable:

OUTSOURCED LABORATORY: _____

ADDRESS: _____

PHONE: _____ FAX: _____

TEST ENGINEER(S): _____

Scope of outsourced testing: _____

We certify that the evaluations are based on our best judgments and that the test data recorded is an accurate record of the performance of the device on test.

Signature of the official of the listed laboratory: _____

Signature

Title of the official: _____ Date: _____