

**American Society of Sanitary Engineering
Seal (Certification) Program**

**Laboratory Evaluation Report for:
Hose Connection Backflow Preventers**

Tested under ASSE Standard 1052 • Revised: 2004

Laboratory File Number _____

Manufacturer _____

Model No. _____

Address _____

Serial No. _____

Other Identification Markings _____

Size _____

Connections (screwed, flanged, etc) _____

General information and instructions for the testing engineer:

Within the text there may be items which are only advisory to conditions which experience indicates could be troublesome. It is not for evaluation related to acceptance of the product.

There may be other 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 item involved.

Documentation of material compliance must be furnished by the manufacturer. He 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.

Product Name _____
Model Number _____ Size(s) _____
Date Submitted for Review _____ Date Review Complete _____
Were the test units production models <input type="checkbox"/> Yes <input type="checkbox"/> No
Or prototypes? <input type="checkbox"/> Yes <input type="checkbox"/> No

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 this standard?
 Yes
 No
 Questionable

If questionable, explain: _____

1.2.2 Size.
 Inlet _____ inches (_____ mm)
 Outlet _____ inches (_____ mm)
 Does the device have a non-removable feature?
 Yes
 No

1.2.3 Pressure Range.
 What is the rated working pressure of the device as noted by the manufacturer?
 _____psi (_____ kPa)
 In compliance?
 Yes
 No

1.2.4 Temperature Range.
 What is the minimum and maximum temperature range of the device as noted by the manufacturer?
 _____°F to _____°F (_____°C to _____C)
 In compliance?
 Yes
 No

Section II

2.0 Test Specimens

- 2.1 State the quantity of units provided for the evaluation: _____
- 2.2 How many units were utilized during the laboratory evaluation? _____
- 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 devices? Yes
 No
- Were the drawings reviewed by the laboratory? Yes
 No

Section III

Performance Requirements and Compliance Testing

- 3.1 Hydrostatic test of Complete Device.
What was the supply pressure used for this test? _____ psi (_____ kPa)
The test period was for _____ minutes.
In compliance? Yes
 No
- 3.2 Water Flow Capacity and Pressure Loss.
What was the supply pressure used for this test? _____ psi (_____ kPa)
At a 25 psi (172.4 kPa) pressure differential across the device, what was the flow rate? _____ GPM (_____ L/s)
In compliance? Yes
 No
 Questionable
- If questionable, explain: _____
- 3.3 Deterioration at Maximum Rated Temperature and Pressure.
What was the water temperature used for this test? _____ °F (_____ °C)
What was the supply pressure used for this test? _____ psi (_____ kPa)
Duration of test: _____ hours/day for _____ days
In compliance? Yes
 No
- 3.4 Life Cycle Test.
Device was subjected to _____ cycles.
What was the supply pressure used for this test? _____ psi (_____ kPa)
Cycle speed: _____ cycles/minute
- 3.5 Resistance to Bending.
Load applied _____ lbs. (_____ kg)
Supply pressure used for this test? _____ psi (_____ kPa)

In compliance Yes
 No

3.6 Tightness of Outlet Check Valve.
Duration of test: _____minutes.
Initial height of water in the sight glass: _____inches (_____mm)
Final height of water in the sight glass: _____ inches (_____ mm)
In compliance? Yes
 No
 Questionable

If questionable, explain: _____

3.7 Tightness of Inlet Check Valve.
Duration of test: _____minutes.
Initial height of water in the sight glass: _____ inches (_____mm)
Final height of water in the sight glass: _____inches (_____ mm)
In compliance? Yes
 No
 Questionable

If questionable, explain: _____

3.8 Leakage from Vent Ports.
Leakage at a pressure less than 3 psi (20.7 kPa): _____ounces/minute (_____ml/minute)
Leakage at or above a pressure of 3 psi (20.7 kPa): Yes
 No
In compliance? Yes
 No
 Questionable

If questionable, explain: _____

3.9 Backflow Through Inlet Check Valve.
Was there any loss of water level in the sight glass or leakage through the inlet check valve:
At 6 inches (152.4 mm) water column? Yes
 No
At 10 feet (3.0 meters) water column? Yes
 No
In compliance? Yes
 No
 Questionable

If questionable, explain: _____

3.10 Backflow Through Outlet Check Valve.
Was there any loss of water level in the sight glass or leakage through the outlet check valve at the atmospheric vent:

- At 6 inches (152.4 mm) water column? Yes
 No
- At 10 feet (3.0 meters) water column? Yes
 No
- At 125 psi (861.9 kPa) or the manufacturer's maximum rated working pressure, if greater? Yes
 No
- In compliance? Yes
 No
 Questionable

If questionable, explain: _____

- 3.11 Backsiphonage.
 Gradually applied vacuum.
 In compliance? Yes
 No
- Rapidly applied vacuum. In compliance? Yes
 No
- The maximum rise of the meniscus in the sight glass was _____ inches (_____ mm)
- 3.12 Backsiphonage and Back Pressure.
 Gradually applied vacuum with the inlet check valve fouled.
 In compliance? Yes
 No
- Rapidly applied vacuum with the inlet check valve fouled.
 In compliance? Yes
 No
- Gradually applied vacuum with the outlet check valve fouled.
 In compliance? Yes
 No
- Rapidly applied vacuum with the outlet check valve fouled.
 In compliance? Yes
 No
- 3.13 Relief of Intermediate Chamber Pressure.
 Did the device comply with this section? Yes
 No
- 3.14 Non-removable Feature.
 Did the device comply with this section? Yes
 No

Section IV

4.0 Detailed Requirements

4.1 Materials

Does the device comply with the material requirements of this standard?

- Yes
 No
 Questionable

If questionable, explain: _____

4.2 Instructions for Marking:
In compliance?

- Yes
- No
- Questionable

If questionable, explain: _____

How were the markings applied?

4.3 Installation Instructions.
Were instructions for installing, field testing and field repairing submitted with the device?

- Yes
- No
- Questionable

If questionable, explain: _____

TESTING AGENCY _____

ADDRESS _____

PHONE: _____ FAX: _____

TEST ENGINEER(S) _____

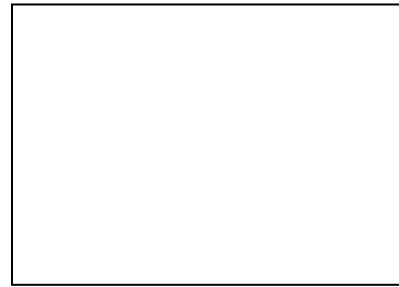
We certify that the evaluations are based on our best judgments and that the test data recorded is an accurate record of the performance of the device on test.

Signature of the official of the agency:

Title of the official: _____ Date: _____

Signature and seal of the Registered Professional Engineer
supervising the laboratory evaluation:

Signature



Seal