

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

**Laboratory Evaluation Report for:  
Hose Connection Vacuum Breakers**

**Tested under ASSE Standard 1011 • Revised: February, 2004  
Laboratory File Number \_\_\_\_\_**

**Manufacturer** \_\_\_\_\_

**Model No.** \_\_\_\_\_

**Address** \_\_\_\_\_

**Serial No.** \_\_\_\_\_

**Other Identification Markings** \_\_\_\_\_

**Size** \_\_\_\_\_

**Connections- Inlet with non-removable feature?**     **Yes**             **No**

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: \_\_\_\_\_

- 1.2.1 Description. Does the device conform to the product described in the standard?  Yes  
 No  
 Questionable

If questionable, explain: \_\_\_\_\_

- 1.2.2 Size. \_\_\_\_\_ Inlet \_\_\_\_\_ Outlet

- 1.2.3 Pressure. What is the maximum working pressure as stated by the manufacturer?  
 \_\_\_\_\_ psi (\_\_\_\_\_ kPa)  
 In compliance?  Yes  
 No

- 1.2.4 Temperature. What is the temperature range as stated by the manufacturer? \_\_\_\_\_°F to  
 \_\_\_\_\_°F (\_\_\_\_\_°C to \_\_\_\_\_°C).

## 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. (See 4.3 also) Were assembly drawings, installation drawings and other technical data which are necessary to enable a testing agency to determine compliance with this standard submitted with the devices?  Yes  
 No  
 Questionable

If questionable, explain: \_\_\_\_\_

Were these drawings reviewed in the laboratory?  Yes  
 No

**Section III**

**3.0 Performance Requirements and Compliance Testing**

**3.1 Hydrostatic Pressure Test**

What was the supply pressure used for this test? \_\_\_\_\_psi (\_\_\_\_\_kPa)

The test period was for \_\_\_\_\_ minutes.

Were there any external leaks or damage to the device?  Yes  
 No  
 Questionable

If questionable, explain: \_\_\_\_\_

**3.2 Water Flow Capacity and Pressure Loss Test**

The flow rate was: \_\_\_\_\_GPM (\_\_\_\_\_L/s) at a pressure loss of \_\_\_\_\_psi (\_\_\_\_\_kPa)

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)

The test period was for \_\_\_\_\_ days at \_\_\_\_\_ hours per day.

In compliance?  Yes  
 No  
 Questionable

If questionable, explain: \_\_\_\_\_

**3.4 Life Cycle Test**

Number of cycles completed: \_\_\_\_\_

Total time to complete this cycle test \_\_\_\_\_ minutes.

**3.5 Resistance to Bending Test**

In compliance?  Yes  
 No  
 Questionable

If questionable, explain: \_\_\_\_\_

**3.6 Low Head Back Pressure Test**

With a 6 inch (152.4 mm) water column back pressure, is this section in compliance?

Yes  
 No  
 Questionable

If questionable, explain: \_\_\_\_\_

With a 10 feet (3.0 m) water column back pressure, is this section in compliance?

- Yes
- No
- Questionable

If questionable, explain: \_\_\_\_\_

**3.7 Atmospheric Vent Opening Test**

In compliance?

- Yes
- No
- Questionable

If questionable, explain: \_\_\_\_\_

**3.8 Leakage from Vent Ports Test**

Leakage at a pressure of less than 3 psi (20.7 kPa) - Amount of leakage: \_\_\_\_\_ oz/min  
(\_\_\_\_\_ ml/min)

In compliance?

- Yes
- No
- Questionable

If questionable, explain: \_\_\_\_\_

Leakage at a pressure of 3 psi (20.7 kPa) or more

In compliance?

- Yes
- No
- Questionable

If questionable, explain: \_\_\_\_\_

**3.9 Back Siphonage Test**

Gradually applied vacuum - In compliance?

- Yes
- No
- Questionable

If questionable, explain: \_\_\_\_\_

Rapidly applied alternating vacuum - In compliance?

- Yes
- No
- Questionable

If questionable, explain: \_\_\_\_\_

Check fouled per Figure \_\_\_\_\_ Other \_\_\_\_\_

Explain: \_\_\_\_\_

The maximum rise of the meniscus in the sight glass was \_\_\_\_\_ inches (\_\_\_\_\_ mm).

**Section IV**

**4.0 Detailed Requirements**

4.1 Allowable Materials. In compliance?

- Yes
- No
- Questionable

If questionable, explain: \_\_\_\_\_

Attach to this report, documentation showing compliance with the material requirements of this section.

4.1.1 Corrosion of Interior Parts. In compliance?  Yes  
 No  
 Questionable  
 If questionable, explain: \_\_\_\_\_

4.1.2 Springs. In compliance?  Yes  
 No  
 Questionable  
 If questionable, explain: \_\_\_\_\_

4.1.3 Seating. In compliance?  Yes  
 No  
 Questionable  
 If questionable, explain: \_\_\_\_\_

4.1.4 Hose Threads. In compliance?  Yes  
 No  
 Questionable  
 If questionable, explain: \_\_\_\_\_

4.1.4.1 Inlet Connections. In compliance?  Yes  
 No  
 Questionable  
 If questionable, explain: \_\_\_\_\_

4.2.1 Identify the markings found on the test unit: \_\_\_\_\_

4.2.2 Describe how these markings were made: \_\_\_\_\_

4.3.1 Were instructions for installation and adjustment packaged with the device?  Yes  
 No  
 Questionable  
 If questionable, explain: \_\_\_\_\_

4.3.2 Were maintenance instructions furnished?  Yes  
 No  
 Questionable  
 If questionable, explain: \_\_\_\_\_

TESTING AGENCY \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

TEST ENGINEER(S) \_\_\_\_\_

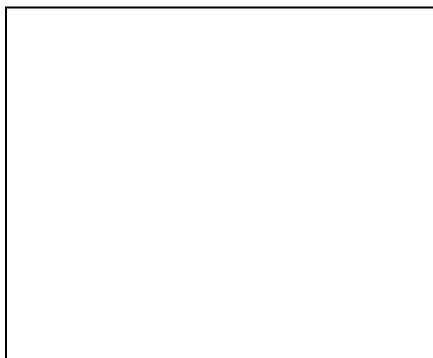
We certify that the evaluations are based on our best judgments and that the test data recorded is an accurate record of the performance of the device on test.

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