

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

**Laboratory Evaluation Report for:  
Vacuum Breaker Wall Hydrants  
Freeze Resistant Automatic Draining Type**

**Tested under ASSE Standard 1019 • Revised: February, 2004  
Laboratory File Number \_\_\_\_\_**

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

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

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

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

**Connections (screwed, 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.



- Is the atmospheric vent of a nonstandard plumbing connection?  Yes  
 No  
 Questionable

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

## Section II

### 2.0 Test Specimens

- 2.1 How many devices of each type or model and size were submitted for testing? \_\_\_\_\_
- 2.2 How many devices of each type or model and size 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 device?  Yes  
 No  
 Questionable

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

- Were the drawings reviewed in the laboratory?  Yes  
 No

## Section III

### 3.0 Performance Requirements and Compliance testing

#### 3.1 Hydrostatic Pressure Test

What was the test pressure? \_\_\_\_\_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 the 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

#### 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 Evaluation

How many cycles were used for this evaluation? \_\_\_\_\_ cycles

#### 3.5 Resistance to Bending

Load applied \_\_\_\_\_lbs. (\_\_\_\_\_kg)

Supply pressure used for this test? \_\_\_\_\_psi (\_\_\_\_\_kPa)

In compliance?

- Yes  
 No

**3.6 Self Draining Capabilities**

Type of device on test:

 Type "A" Type "B" Type "C"

In compliance?

 Yes No Questionable

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

**3.7 Low Head Back Pressure**

The test period for each column reading was for \_\_\_\_\_ minutes.

In compliance?

 Yes No Questionable

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

**3.8 Atmospheric Vent Opening For Type A and Type B Devices**

Did the atmospheric vent discharge the hose to 0 psi (0 kPa) when the inlet pressure dropped to 0 psi (0 kPa)?

 Yes No

In compliance?

 Yes No Questionable

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

**3.9 Backflow Prevention for Type "C" Devices**

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

Was there any leakage noted?

 Yes No Questionable

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

In compliance?

 Yes No**3.10 Leakage from Vent Ports**

In compliance?

 Yes No**3.11 Backsiphonage**

Gradually applied vacuum. In compliance?

 Yes No Questionable

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

Rapidly applied vacuum. In compliance?

 Yes No Questionable

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

Check was fouled per Figure \_\_\_\_\_ Other \_\_\_\_\_.

If other, please explain how: \_\_\_\_\_

The maximum rise in the meniscus in the sight glass: \_\_\_\_\_ inches (\_\_\_\_\_ mm)

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

## 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 Markings

4.2.1 List the following information as shown on the device:

- a) Manufacturer's name or trademark: \_\_\_\_\_  
b) Type or model designation: \_\_\_\_\_  
c) Type "A": \_\_\_\_\_  
Type "B": \_\_\_\_\_  
Type "C": \_\_\_\_\_

Were the markings visible on the installed position?  Yes  
 No

4.2.2 How were the markings applied? \_\_\_\_\_

#### 4.3 Installation Instructions

4.3.1 Were installation instructions submitted with the device?  Yes  
 No

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