

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

**ASSE 1018-2023**

Performance Requirements for Trap Seal Primer Valves – Potable Water Supplied

**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 provide 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. Are the devices designed to supply potable water to drain traps?  Yes  
 No  
 Questionable
- 1.2 Scope
- 1.2.1 Description. Does the description furnished by the manufacturer meet that described in the standard, including a means of preventing back-siphonage?  Yes  
 No
- 1.2.2 Size  
\_\_\_\_ inches (\_\_\_\_ mm).
- 1.2.3 Flow  
Is the rate of water flow to the trap fixed or adjustable?  Fixed  
 Adjustable  
If adjustable, is the method of adjustment downstream of the back-siphonage backflow device?  Yes  
 No  
Is the means of adjustment capable of completely shutting off the water flow?  Yes  
 No
- 1.2.4 Pressure (Hydrostatic)  
What is the maximum working pressure as noted by the manufacturer? \_\_\_\_ psi (\_\_\_\_ kPa)
- 1.2.5 Operating Pressure Range  
What is the operating pressure range as noted by the manufacturer?  
Minimum: \_\_\_\_ psi (\_\_\_\_ kPa)  
Maximum: \_\_\_\_ psi (\_\_\_\_ kPa)
- 1.2.6 Sliding parts  
Do the Sliding parts prevent galling and sticking when tested to Section 3.2?  Yes  
 No

- 1.2.7 Connections  
Do pipe threads comply with the appropriate standard?  Yes  
 No

## Section II

### 2.0 Test Specimens

- 2.1 Samples Submitted. How many devices of each size and model were submitted by the manufacturer? \_\_\_\_\_
- 2.2 How many devices were utilized during the laboratory evaluation? \_\_\_\_\_  
If more than 1 device was used during the evaluation, state why additional devices were necessary. \_\_\_\_\_
- 2.3 Were assembly drawings, installation instructions and all other data submitted by the manufacturer to enable you to determine compliance with the standard?  Yes  
 No  
Were these items reviewed by the lab personnel performing and supervising the test?  Yes  
 No

## Section III

### 3.0 Performance Requirements and Compliance Testing

- 3.1 Hydrostatic Test.  
What was the maximum pressure applied? \_\_\_\_\_ psi (\_\_\_\_\_ kPa)  
How long was the pressure sustained? \_\_\_\_\_ minutes  
Were there any indications of leakage or damage?  Yes  
 No
- 3.2 Cycle Test  
Was the device installed per manufacturer's standard installation instructions?  Yes  
 No  
What was the pressure utilized? \_\_\_\_\_ psi (\_\_\_\_\_ kPa)  
The device was cycled \_\_\_\_\_ times  
Was there any leakage or indication of damage during the test?  Yes  
 No
- 3.3  
3.3.1 Flow Activated Devices  
What is the minimum flow rate as stated by the manufacturer? \_\_\_\_\_ GPM (\_\_\_\_\_ L/m)  
What is the minimum discharge rate as stated by the manufacturer? \_\_\_\_\_ GPM (\_\_\_\_\_ L/m)  
At a supply pressure of 20 psi (138 kPa) water was allowed to flow through the device for \_\_\_\_\_ minutes.  
Record the rate of discharge for five (5) test periods  
1) \_\_\_\_\_ GPM (\_\_\_\_\_ L/m)  
2) \_\_\_\_\_ GPM (\_\_\_\_\_ L/m)  
3) \_\_\_\_\_ GPM (\_\_\_\_\_ L/m)  
4) \_\_\_\_\_ GPM (\_\_\_\_\_ L/m)  
5) \_\_\_\_\_ GPM (\_\_\_\_\_ L/m)  
Were the recorded discharge rates equal to or greater than the manufacturer's stated discharge rate at 20 psi (138 kPa)?  Yes  
 No  
At a supply pressure of 80 psi (552 kPa), water was allowed to flow through the device for \_\_\_\_\_ minutes.

Record the rate of discharge for 5 test periods

- 1) \_\_\_\_ GPM (\_\_\_\_ L/m)
- 2) \_\_\_\_ GPM (\_\_\_\_ L/m)
- 3) \_\_\_\_ GPM (\_\_\_\_ L/m)
- 4) \_\_\_\_ GPM (\_\_\_\_ L/m)
- 5) \_\_\_\_ GPM (\_\_\_\_ L/m)

Were the recorded discharge rates equal to or greater than the manufacturer's stated discharge rate at 80 psi (552 kPa)?

- Yes  
 No

### 3.3.2 Pressure Activated Devices

What is the minimum flow rate as stated by the manufacturer? \_\_\_\_ GPM (\_\_\_\_ L/m)

What is the minimum discharge rate as stated by the manufacturer? \_\_\_\_ GPM (\_\_\_\_ L/m)

The supply pressure was adjusted to \_\_\_\_\_ psi (\_\_\_\_ kPa)

Fluctuate the supply pressure per the manufacturer's specifications and record the discharge flow rate for 5 test periods

- 1) \_\_\_\_ GPM (\_\_\_\_ L/m)
- 2) \_\_\_\_ GPM (\_\_\_\_ L/m)
- 3) \_\_\_\_ GPM (\_\_\_\_ L/m)
- 4) \_\_\_\_ GPM (\_\_\_\_ L/m)
- 5) \_\_\_\_ GPM (\_\_\_\_ L/m)

Were the recorded discharge rates equal to or greater than the manufacturer's stated discharge rate?

- Yes  
 No

The supply pressure was adjusted to \_\_\_\_ psi (\_\_\_\_ kPa)

Fluctuate the supply pressure per the manufacturer's specifications and record the discharge flow rate for 5 test periods

- 1) \_\_\_\_ GPM (\_\_\_\_ L/m)
- 2) \_\_\_\_ GPM (\_\_\_\_ L/m)
- 3) \_\_\_\_ GPM (\_\_\_\_ L/m)
- 4) \_\_\_\_ GPM (\_\_\_\_ L/m)
- 5) \_\_\_\_ GPM (\_\_\_\_ L/m)

Were the recorded discharge rates equal to or greater than the manufacturer's stated discharge rate?

- Yes  
 No

### 3.4 Back Siphonage

(a) Apply intermittent vacuums of 25 inches (635 mm) or more mercury column. Record the water rise in the sight glass: \_\_\_\_ inches (\_\_\_\_ mm) of mercury.

(b) Apply intermittent vacuums at the following levels and record the water rise in the sight glass.

Level 1 - 2 inches (53 mm)      \_\_\_\_ inches (\_\_\_\_ mm).

Level 2 - 5 inches (127 mm))      \_\_\_\_ inches (\_\_\_\_ mm).

Level 3 - 10 inches (254 mm)      \_\_\_\_ inches (\_\_\_\_ mm).

Level 4 - 15 inches (361 mm)      \_\_\_\_ inches (\_\_\_\_ mm).

Level 5 - 25 inches (635 mm)      \_\_\_\_ inches (\_\_\_\_ mm).

(c) Apply instantaneous vacuum at 25 inches (635 mm) of mercury column to establish surge effect.

Record the water rise in the sight glass: \_\_\_\_ inches (\_\_\_\_ mm).

- (d) Slowly apply steadily increasing vacuum from 0 inches to 25 inches (0 mm to 635 mm) mercury column:  
 Record the water rise in the sight glass: \_\_\_\_ inches (\_\_\_\_ mm).  
 Slowly apply steadily decreasing vacuum from 25 inches (635 mm to 0 mm).  
 Record the water rise in the sight glass: \_\_\_\_ inches (\_\_\_\_ mm)  
 Were there any water rises above 3 inches (76.2 mm) in any of the above tests?  Yes  
 No

## Section IV

### 4.0 Detailed Requirements

#### 4.1 Materials

##### 4.1.2.1 Contaminated Materials

- Do the materials comply with the applicable sections of the NSF 372?  Yes  
 No  
 N/A

##### 4.1.2 Elastomeric Part

- Did elastomeric parts have physical characteristic change which prevented full compliance of the standard?  Yes

#### 4.2 Documentation

- Were installation instructions packaged with the device?  Yes  
 No

- Did the instructions state that the critical level shall be installed at least 150 mm (6 inches) above the grid of a floor drain or the flood rim of the equipment which the trap serves?  Yes  
 No

Did the manufacturer include the following:

Inlet and outlet connection sizes

Manufacturer's minimum and maximum static pressures

Minimum flow rates or pressures which are required to activate the device and the resulting discharge rate at those minimum values?  Yes  
 No

- If pressure activated, were the pressures noted along with the minimum flow rates?  Yes  
 No

#### 4.3 Markings

List the markings shown on the device:

(a) Manufacturer's name or trademark:

(b) Model number or other identification:

(c) Operating range: \_\_\_\_ psi (\_\_\_\_ kPa)

How were the markings made?

- Stamped  
 Cast  
 Permanent label  
 Other

- Were markings visible in the normally installed orientation?  Yes  
 No