

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

**ASSE Standard #1056 • Revised: May 2013
Spill Resistant Vacuum Breakers**

Manufacturer _____

Contact Person _____ **E-mail** _____

Address _____

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 _____

Were All Tests Performed at the Selected Laboratory? Yes No

If offsite, identify location and tests involved: _____

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 Board. The Seal 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.

1.3.5.3 Was there any water leakage from the vent when the device is pressurized from atmospheric up to the maximum working pressure? Yes
 No

1.3.6 Was the air vent inlet entrance protected against the accumulation of debris? Yes
 No

How was this accomplished?

Section II

2.0 Test Specimens

2.1 How many assemblies of each size and model were submitted?
2.2 Were assembly drawings and other data provided? Yes
 No

2.3 How many units were utilized during the laboratory evaluation?

2.4 Failure of one device shall result in a rejection of the device.

Section III

3.0 Performance Requirements and Compliance Testing

3.1 **Hydrostatic test of Complete Assembly**
What was the supply pressure at the inlet? kPa (psi)

The test period was minutes.

Were there any external leaks or other indications of damage? Yes
 No

In compliance? Yes
 No

3.2 Hydrostatic Test of Check Valve

What was the pressure supplied at test cock #2 (downstream of the check valve)?

kPa (psi)

The pressure was maintained for minutes.

Were there any leaks as indicated by a rise in the water level of the sight glass?

- Yes
 No

In compliance?

- Yes
 No

3.3 Deterioration at Extremes of Temperature

Hot water temperature tested at: °C (°F)

Hot water pressure tested at: kPa (psi)

Cold water temperature tested at: °C (°F)

Cold water pressure tested at: kPa (psi)

Hot water test period was for hours.

Cold water test period was for hours.

In compliance?

- Yes
 No

3.4 Shock (Water Hammer) Test of Assembly

What was the supply pressure at the inlet? kPa (psi)

How many times was this test performed?

Any indication of damage?

- Yes
 No

In compliance?

- Yes
 No

3.5 Drip Tightness of Check Valve

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

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

Was there any loss in the level of the sight glass below 710 mm (28 in.)?

- Yes
 No

In compliance?

- Yes
 No

3.6 Air Inlet Valve Closing and Opening Pressure.

What was the pressure at the inlet of the assembly? kPa (psi)

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

Was the vent fully open at atmospheric pressure? Yes
 No

Did the vent valve start to open when pressure drops to 6.9 kPa (1 psi)?
 Yes
 No

In compliance? Yes
 No

3.7 Air Inlet Valve Capacity

3.7.2 After three runs with the check valve open and the air vent closed, record the average time it took to evacuate the vacuum tank. seconds

3.7.3 After three runs with the check valve closed and the air vent open, record the average time it took to evacuate the vacuum tank. seconds

3.7.4 Was the time recorded for Section 3.7.3 equal to or less than the time recorded for Section 3.7.2? Yes
 No

In compliance? Yes
 No

3.8 Backsiphonage Prevention

What size wire was used to foul the check valve? mm (inches)

(a) What was the vacuum applied for this test? kPa (psi)

How long was the test period? seconds

(b) At a vacuum of 7 kPa (2 in. Hg), what was the sight glass water level?
mm (in.)

At a vacuum of 17 kPa (5 in. Hg), what was the sight glass water level?
mm (in.)

At a vacuum of 34 kPa (10 in. Hg), what was the sight glass water level?
mm (in.)

At a vacuum of 51 kPa (15 in. Hg), what was the sight glass water level?
mm (in.)

At a vacuum of 84.5 kPa (25 in. Hg), what was the sight glass water level?
mm (in.)

(c) From an increasing uniform vacuum of 0 to 84.5 kPa (0 to 25 in. Hg), what was the sight glass water level? mm (in.)

From an decreasing uniform vacuum of 84.5 to 0 kPa (25 to 0 in. Hg), what was the sight glass water level? mm (in.)

In compliance? Yes
 No

3.9 Rated Flow and Maximum Allowable Pressure Loss

What was the rate of flow? L/s (GPM)

What was the pressure loss at the rated flow? kPa (psi)
In compliance? Yes
 No

Section IV

4.0 Detailed Requirements

4.1 Materials

4.1.1 Materials in Contact with Water. In compliance? Yes
 No

4.1.2 Elastomers and Polymers. In compliance? Yes
 No

4.1.3 Stainless Steel Components. In compliance? Yes
 No

4.1.4 Non-Ferrous Wetted Parts. In compliance? Yes
 No

4.1.5 Internal Non-Cast Parts. In compliance? Yes
 No

4.1.6 Springs. In compliance? Yes
 No

4.1.7 Valve Discs, Seat Facing or Other Flexible or Non-Flexible Non-Metallic Parts. In compliance? Yes
 No

4.1.8 Metal-to-Metal. In compliance? Yes
 No

4.1.9 Seat Rings. In compliance? Yes
 No

4.1.10 Test Cock. In compliance? Yes
 No

4.1.11 Pipe Threads. In compliance? Yes
 No

4.2 Instructions

Were instructions furnished with the assembly that included illustrations, installation, operations and maintenance?

- Yes
 No

4.3 Markings

4.3.1 List the markings shown on the device:

- (a) Name or Trademark:
- (b) Type and Model Number:
- (c) Maximum Rated Pressure: kPa (psi)
- (d) Maximum Rated Temperature: °C (°F)
- (e) Serial Number or other markings:
- (f) Nominal Valve Size? DN (NPS)
- (g) The direction of Flow?

Are these markings visible in the installed position? Yes
 No

4.3.2 How were the markings made?

- Stamped
- Cast
- Permanently affixed label
- On a corrosion resistant brass or stainless steel plate securely fastened to the device
- Other:

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



PE Seal

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