

*American Society of Sanitary Engineering*  
PRODUCT (SEAL) LISTING PROGRAM



**ASSE STANDARD #1049 - REVISED: 2009**  
Individual and Branch Type Air Admittance Valves for Chemical Waste Systems

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**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:** \_\_\_\_\_

**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. 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.



**SECTION I**

**1.0 General**

- 1.1 Application  
Is the purpose of this device as described by the manufacturer as stated in this section?  **Yes**  **No**
  
- 1.2 Scope
  - 1.2.1 Description  
Does the device comply with the description as stated in this standard?  **Yes**  **No**
  
  - 1.2.2 Temperature Range  
What is the temperature range as stated by the manufacturer?  
\_\_\_\_\_ °F to \_\_\_\_\_ °F ( \_\_\_\_\_ °C to \_\_\_\_\_ °C )
  
  - 1.2.3 Did this device pass the air flow rate indicated in Table 1 without exceeding a pressure drop greater than 1.0 inch (25.4 mm) of water column (See Section 3.2)?  **Yes**  **No**
  
- 1.3 Construction
  - 1.3.1 Air Inlet Shields  
Do the air inlet shields comply with the requirements of this section?  **Yes**  **No**
  
  - 1.3.2 Leakage  
See Section 3.1
  
  - 1.3.3 Interference  
Were end connections so constructed that the joint will not interfere with any moving parts of the device or restrict air passageways?  **Yes**  **No**
  
  - 1.3.4 Connections  
Describe the type of connections for the device: \_\_\_\_\_  
State the standard(s) that these connections conform with: \_\_\_\_\_

**SECTION II**

**2.0 Test Specimens**

- State the quantity of devices provided for evaluation: \_\_\_\_\_
- How many devices were utilized during the laboratory evaluation? \_\_\_\_\_
- Were drawings and other technical data provided with the test specimens?  **Yes**  **No**
- Were these drawings and data reviewed by the laboratory?  **Yes**  **No**



**SECTION III**

**3.0 Performance Requirements and Compliance Testing**

- 3.1 Pressure test of Complete Device
- What was the length of the pipe on which the device was installed? \_\_\_\_\_ inches ( \_\_\_\_\_ cm)
- What was the initial pressure applied to the device? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)
- What was the intermediate pressure applied to the device? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)
- How long was each pressure state held? \_\_\_\_\_ minutes
- What was the pressure loss during the first two (2) intervals of pressure? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)
- What was the pressure loss during the final pressure stage? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)
- When the device is installed at 15° orientation from vertical, what was the pressure loss of each of three (3) stages of pressure?
- 1st: \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)
- 2nd: \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)
- 3rd: \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)
- 3.2 Rating and Opening Pressure Test
- During the pre-conditioning period, what pressure was applied to the device on test? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)
- How long was this pressure maintained? \_\_\_\_\_ hours
- At what pressure (vacuum) did the device on test open? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)
- What was the air flow rate when the pressure (vacuum) reached -1.0 inch ± 0.05 inch (-25.4 mm ± 1.267 mm) WC? \_\_\_\_\_ CFM( \_\_\_\_\_ L/s)
- What was the temperature of the test set-up during the testing? \_\_\_\_\_ °F( \_\_\_\_\_ °C)
- What is the determined drainage pipe size for this device based on the airflow capacity? \_\_\_\_\_ inches( \_\_\_\_\_ mm)
- 3.3 Endurance Test
- For the high temperature procedure, the device was conditioned at \_\_\_\_\_ °F ( \_\_\_\_\_ °C)
- for a period of \_\_\_\_\_ hours



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The device was then subjected to a vacuum of \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)  
for \_\_\_\_\_ cycles

Each cycle consisted of \_\_\_\_\_ seconds open  
and \_\_\_\_\_ seconds closed

Retest to Section 3.1 and record the results below:

3.1

Pressure test of Complete Device

What was the length of the pipe on which the device was installed? \_\_\_\_\_ inches ( \_\_\_\_\_ cm)

What was the initial pressure applied to the device? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)

What was the intermediate pressure applied to the device? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)

How long was each pressure state held? \_\_\_\_\_ minutes

What was the pressure loss during the first two (2) intervals of pressure? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)

What was the pressure loss during the final pressure stage? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)

When the device is installed at 15° orientation from vertical, what was the pressure loss of each of three (3) stages of pressure?

1st: \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)

2nd: \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)

3rd: \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)

3.3 (Continued)

For the low temperature procedure the device was conditioned at \_\_\_\_\_ °F ( \_\_\_\_\_ °C)  
for a period of \_\_\_\_\_ hours

The device was then subjected to a vacuum of \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)  
for \_\_\_\_\_ cycles



Each cycle consisted of \_\_\_\_\_ seconds open  
 and \_\_\_\_\_ seconds closed

Retest to Section 3.1 and record the results below:

3.1

Pressure test of Complete Device

What was the length of the pipe on which the device was installed? \_\_\_\_\_ inches ( \_\_\_\_\_ cm)

What was the initial pressure applied to the device? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)

What was the intermediate pressure applied to the device? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)

How long was each pressure state held? \_\_\_\_\_ minutes

What was the pressure loss during the first two (2) intervals of pressure? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)

What was the pressure loss during the final pressure stage? \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)

When the device is installed at 15° orientation from vertical, what was the pressure loss of each of three (3) stages of pressure?

- 1st: \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)
- 2nd: \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)
- 3rd: \_\_\_\_\_ inches of WC( \_\_\_\_\_ mm of WC)

Was the device in completed compliance with all the performance requirements of this standard?  Yes  No

Section IV

4.0 Detailed Requirements

4.1 Materials

List the metallic parts used in the construction of this device: \_\_\_\_\_

Were the metals close to each on the electromotive scale so as to reduce the corrosion potential?  Yes  No

Were internal metallic parts of a corrosion resistance at least equal to Stainless Steel Series 300?  Yes  No

List the ASTM standards or other industry standards to which the material make-up of this device were manufactured: \_\_\_\_\_



4.2

Instructions for Marking and Installation

List the markings shown on the device: \_\_\_\_\_

How were these markings applied? \_\_\_\_\_

Did the packaging contain:

- |   |                          |            |                          |           |
|---|--------------------------|------------|--------------------------|-----------|
| a) name of manufacturer or trademark?         | <input type="checkbox"/> | <b>Yes</b> | <input type="checkbox"/> | <b>No</b> |
| b) model number or description of the device? | <input type="checkbox"/> | <b>Yes</b> | <input type="checkbox"/> | <b>No</b> |
| c) drainage pipe size and capacity?           | <input type="checkbox"/> | <b>Yes</b> | <input type="checkbox"/> | <b>No</b> |

Were installation instructions provided with the device?  **Yes**  **No**

Did the installation instructions include:

- |  |                          |            |                          |           |
|--|--------------------------|------------|--------------------------|-----------|
| a) installation limitations?   | <input type="checkbox"/> | <b>Yes</b> | <input type="checkbox"/> | <b>No</b> |
| b) proper venting methods?   | <input type="checkbox"/> | <b>Yes</b> | <input type="checkbox"/> | <b>No</b> |
| c) a statement regarding the device is not a substitute for all conventional venting situations? | <input type="checkbox"/> | <b>Yes</b> | <input type="checkbox"/> | <b>No</b> |
| d) sizing of the device?   | <input type="checkbox"/> | <b>Yes</b> | <input type="checkbox"/> | <b>No</b> |

Did these instructions include requirements for air movement, installation orientations, a open stack vent and the prohibition of using this device to relieve positive pressure?  **Yes**  **No**



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**TESTING AGENCY:**

**ADDRESS:**

**PHONE:**

**FAX:**

**TEST ENGINEERS:**

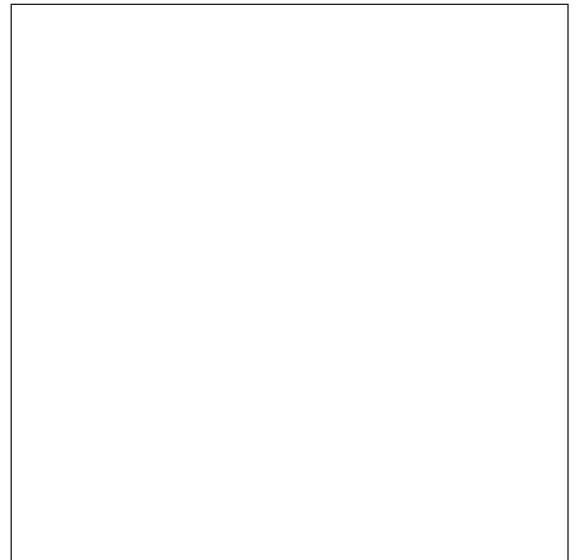
*We Certify that the evaluations are based on our best judgements and that the test data recorded is an accurate record of the performance of the device on test.*

**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**

\*To insert images into document (PE seal and signatures)

**Adobe Acrobat Pro users:** At the top of the page, go to: Tools > Advanced Editing > TouchUp Object Tool. Once you have selected TouchUp Object Tool, right click within the document and select Place Image. Choose the image you want to place (PE seal or signature) and then select Open. Once the image is in the document, move and re-size the image accordingly. Save and send to ASSE.

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**COMMENTS:**