

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



**ASSE STANDARD #1032-2004(R2011) - REVISED: 2011**  
**Dual Check Valve Type Backflow Preventers for**  
**Carbonated Beverage Dispensers – Post Mix Type**

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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: \_\_\_\_\_

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.



**SECTION I**

**1.0 General**

**1.1 Application**

Is this a dual check backflow preventer for carbonated beverage dispensers - post mix type?  Yes  No

**1.2 Scope**

**1.2.1 Description**

Does this device conform to the product described in the Standard?  Yes  No

If no, explain: \_\_\_\_\_

Does this device have a check valve installed downstream of the independently acting check valves?  Yes  No

**1.2.2 Size**

Inlet: \_\_\_\_\_ in ( \_\_\_\_\_ mm)

Outlet: \_\_\_\_\_ in ( \_\_\_\_\_ mm)

**1.2.3 Working Pressure as indicated by manufacturer:**

\_\_\_\_\_ psi ( \_\_\_\_\_ kPa)

**1.2.4 Maximum temperature or temperature range as indicated by manufacturer:**

\_\_\_\_\_ °F or from \_\_\_\_\_ °F to \_\_\_\_\_ °F  
( \_\_\_\_\_ °C or from \_\_\_\_\_ °C to \_\_\_\_\_ °C)

**1.3 Limitation on Design**

**1.3.1 Flow Capacity**

Is the design and construction such that it is in reasonable compliance with the intent of this subsection?  Yes  No  Questionable

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

**1.3.2 Structural Strength**

Is the device in full compliance with the intent of this subsection?  Yes  No  Questionable

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

**1.3.3 Mechanical Function**

**1.3.3.1 Threaded Connection**

Is the female threaded connection constructed in such a manner as to prevent pipe penetration from restricting the flow to the device or interfere with the working parts?  Yes  No  Questionable

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

In compliance?  Yes  No

**1.3.3.2 Repairability**

Are the internal parts of the device accessible for inspection, repair or replacement?  Yes  No



**SECTION II**

**2.0 Test Specimens**

2.1 How many devices of each model and size were submitted by the manufacturer to the testing agency? \_\_\_\_\_

2.2 How many devices were utilized for full testing by the Laboratory? \_\_\_\_\_

2.3 Were assembly and installation drawings and other data that was needed to enable a testing agency to determine compliance with the standard submitted?  Yes  No

Were these reviewed by the laboratory personnel performing the tests?  Yes  No

**SECTION III**

**3.0 Performance Requirements and Compliance Testing**

**3.1 Hydrostatic Test of Complete Device**

What was the hydrostatic pressure applied? \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)  
The test time was for \_\_\_\_\_ minutes

Were there any leaks or damage?  Yes  No

In compliance?  Yes  No

If no, explain: \_\_\_\_\_

**3.2 Deterioration at Extremes of Manufacturer's Temperature Range Test**

**Hot Water Test:**

What was the water temperature used for this test? \_\_\_\_\_ °F ( \_\_\_\_\_ °C)

What was the pressure used for this test? \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)

What was the duration of the hot water test? \_\_\_\_\_ hours

What was the flow rate for this test? \_\_\_\_\_ GPM ( \_\_\_\_\_ L/s)

**Cold Water Test:**

What was the water temperature used for this test? \_\_\_\_\_ °F ( \_\_\_\_\_ °C)

What was the pressure used for this test? \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)

What was the duration of the cold water test? \_\_\_\_\_ hours

What was the flow rate for this test? \_\_\_\_\_ GPM ( \_\_\_\_\_ L/s)

**Repeat Section 3.1:**

What was the hydrostatic pressure applied? \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)  
The test time was for \_\_\_\_\_ minutes

Were there any leaks or damage?  Yes  No

In compliance?  Yes  No

If no, explain: \_\_\_\_\_

**3.3 Endurance Cycling Test**

What was the temperature of the preconditioning water? \_\_\_\_\_ °F ( \_\_\_\_\_ °C)

How long was the device submerged? \_\_\_\_\_ minutes

a. Water at a flow rate of \_\_\_\_\_ GPM ( \_\_\_\_\_ L/m)  
and temperature of \_\_\_\_\_ °F ( \_\_\_\_\_ °C)



and a pressure of \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)  
 was allowed to flow for \_\_\_\_\_ seconds.

b. A backpressure of \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)  
 was applied to the device for \_\_\_\_\_ seconds.

What was the number of cycles used? \_\_\_\_\_ cycles

Was there any leakage from the atmospheric port?  Yes  No

**3.4 Hydrostatic Leakage Test of Check Valve**

**Upstream Check Valve Test:**

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

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

Were there any leaks?  Yes  No

Was there any rise in the sight glass with the downstream check fouled?  Yes  No

**Downstream Check Valve Test:**

What was the pressure applied to the downstream side of the downstream check valve?  
 \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)

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

Were there any leaks?  Yes  No

Was there any rise in the sight glass with the upstream check valve fouled?  Yes  No

**3.5 Drip Tightness of Check Valves Test**

**Upstream Check Valve Test:**

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

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

What was the water level in the sight glass upstream of the upstream check valve?  
 \_\_\_\_\_ in ( \_\_\_\_\_ mm)

Were there any leaks?  Yes  No

**Downstream Check Valve Test:**

What was the pressure applied to the downstream side of the downstream valve?  
 \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)

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

What was the water level in the sight glass upstream of the downstream check valve?  
 \_\_\_\_\_ in ( \_\_\_\_\_ mm)



Were there any leaks?  Yes  No

In compliance?  Yes  No  Questionable

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

**3.6 Allowable Pressure Loss at Rated Flow Test**

What was the flow rate used? \_\_\_\_\_ GPM ( \_\_\_\_\_ L/s)

What was the maximum pressure loss observed up to and including the rated flow?  
\_\_\_\_\_ psi ( \_\_\_\_\_ kPa)

In compliance?  Yes  No  Questionable

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

**SECTION IV**

**4.0 Detailed Requirements**

**4.1 Materials**

Do any solders or fluxes containing in excess of 0.2% lead come in contact with the potable water supply?  Yes  No

Do springs in contact with potable water have a corrosion resistance at least equal to stainless steel Series 300?  Yes  No

Any metal to metal seating?  Yes  No

Are connections in compliance with either:

a. Threaded ASME B.20.1  Yes  No  
or

b. Flared SAE.J513 45 Degrees  Yes  No

**4.2 Instructions for Marking and Installation**

**4.2.1 List the markings shown on the device:**

(a) Manufacturer or trademark: \_\_\_\_\_

(b) Model of device:

(c) Direction of Flow: \_\_\_\_\_

Are markings visible in the installed position?  Yes  No

Are markings cast, stamped or engraved on the body of the device or on a durable metal plate or a corrosion resistant label securely attached to the device?  Yes  No

**4.2.2 Installation Instructions**

Are complete installation instructions packaged with the device?  Yes  No

Have the instructions shown the correct installation method?  Yes  No

For devices capable of being repaired in the field or maintained:  
Were complete detailed instructions furnished?  Yes  No



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

ADDRESS: \_\_\_\_\_

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

TEST ENGINEERS: \_\_\_\_\_

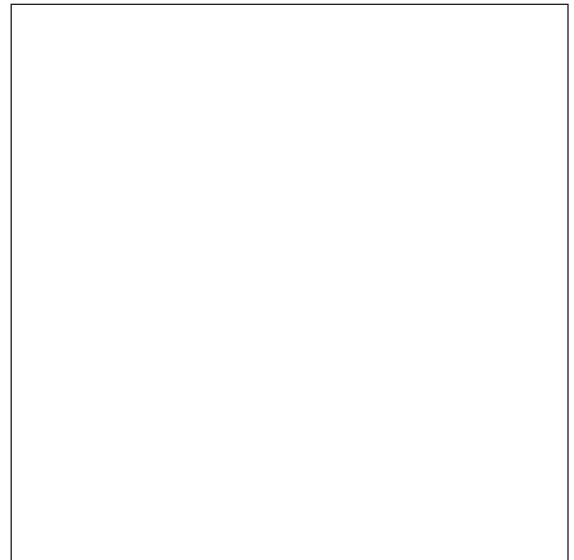
*We certify that the evaluations are based on our best judgement and that the test data recorded is an accurate record of the performance of the device on test.*

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:**