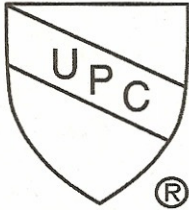


IAPMO RESEARCH AND TESTING, INC.

5001 East Philadelphia Street, Ontario, California 91761-2816 • (909) 472-4100 Fax (909) 472-4244 • www.iapmo.org



CERTIFICATE OF LISTING

IAPMO Research and Testing, Inc. is a product certification body which tests and inspects samples taken from the supplier's stock or from the market or a combination of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics below and is not to be constructed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

Effective Date: December 2007

Void After: December 2008

Product: Backflow Preventers (Hose Bibb)

Issued To: Arrowhead Brass Products, Inc.
5147 Alhambra Avenue
Los Angeles, CA 90032

File No. 2367

IDENTIFICATION: The body shall be cast, etched, stamped or engraved with the following: Manufacturer's name or trademark, model designation, "ASSE 1011", maximum rated working pressure and the maximum temperature. The product shall also bear the UPC® mark.

CHARACTERISTICS: Hose connection type vacuum breakers designed to be installed on the discharge side of the hose bibb, hydrant or faucet which is fitted with hose threads. To be installed in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code.

Products comply with the applicable sections of the latest edition of the Uniform Plumbing Code®. Manufactured in compliance with ASSE 1011-04.

Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

MODELS:

Model No.	Description
58 BFP	Factory attached to hose bibb
58 ABP	With break-a-way set screw for field attachment
59 ABP	Self draining vacuum breaker
261	No kink hose bib, 1/2" MIP x 3/4" Hose Connection
262CC	No kink hose bib, 1/2" or 3/4" Copper Sweat x 3/4" Hose Connection
263	No kink hose bib, 1/2" FIP x 3/4" Hose Connection
264CC	No kink hose bib, 1/2" Copper Compression x 3/4" Hose Connection
265	Solid Flange Sill Faucet, 1/2" FIP x 3/4" Hose Connection
361	No kink hose bib, 3/4" MIP x 3/4" Hose Connection
363	No kink hose bib, 3/4" MIP x 3/4" Hose Connection
365	Solid Flange Sill Faucet, 3/4" FIP x 3/4" Hose Connection


Chairman, Product Certification Committee


Executive Director



This listing is for the period indicated herein and is void after the date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Reproduction of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alternation of this certificate could be grounds for revocation of the listing.

American Society of Sanitary Engineering

FOR PLUMBING AND SANITARY RESEARCH



This certifies **Champion Arrowhead**
has listed a **Hose Connection Vacuum Breaker**
Model(s):

261 - 1/2" MIP x 3/4" Hose Connectio-w/ Integral VB, 262CC - 1/2" Nom. Copper or 3/4" OD Cop-w/ Integral VB, 264CC - 1/2" Copper Comp. x 3/4" Hose-w/ Integral VB, 263 & 265 - 1/2" Female pipe-, 361, 363, 365 - 3/4" female pipe-

was tested by **SGS United States Testing Company, Inc.**

and met the minimum requirements as stated by ASSE Standard **1011 - 2004**, is in compliance to the current edition of the *Seal Control Board Procedures* and has been granted permission by the Seal Control Board to display the ASSE Seal on **03/27/2008**

This authorization is issued for one (1) year from date hereon and is renewable annually or until such time as the standard has been revised or the product/s is found not in compliance. Display of the ASSE Seal is not a product endorsement.

The American Society of Sanitary Engineering has created the Seal Listing Program to encourage improvements in plumbing products and systems in the interests of greater protection of public health and safety.

ASSE Record Number: **1267**



London Ramin

ASSE Seal Control Board Chairperson

09/27/2007



American Society of Sanitary Engineering

FOR PLUMBING AND SANITARY RESEARCH

An ANSI Accredited Standards Developer and Product Certification Agency

901 Canterbury Road, Suite A • Westlake, Ohio 44145-1480

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April 08, 2008

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102 Abby Way
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REGION #8 - AT-LARGE

PAUL R. BLADDICK
LPB Company
379 Shotwell Ct.
White Lake, MI 48386-2358

Dear Ms Ibarra:

It is our pleasure to advise you of the Seal Control Board's authorization to display the ASSE Seal on **Champion Arrowhead**

model/s **261 - 1/2" MIP x 3/4" hose connection w/ Integral VB**

under ASSE Standard **1011**. **Champion Arrowhead is**

required to visibly display the ASSE Seal and the numerals indicating the appropriate

performance standard on the product (unless otherwise noted as per Section V of the current edition of the Seal Control Board Procedures).

Failure to display the ASSE Seal shall be cause for removing the product from the ASSE approved listing, the Seal List Book and the ASSE webpage.

Your authorization certificate is enclosed. If there are any discrepancies between your files and the information on the certificate, please contact ASSE as soon as possible.

Every year the authorization shall be renewed. A yearly renewal notice shall be forwarded.

The renewal shall include a letter stating the products/s have not changed or been modified without prior, written consent from the Seal Control Board in the past year, together with the applicable renewal fee.

Annually a factory audit shall be conducted. **As per the current edition of the Seal Control Board Procedures - Section 7.2B - your quality management system shall include a record of complaints and these records shall be available to ASSE or the ASSE auditor when requested. Should your manufacturing facility for the listed products have ISO 9001-2000 certification, a physical audit is not required. Forward a copy of the ISO certification to the ASSE International office with a list of local suppliers where ASSE can either purchase or review the product for compliance to the application documentation on file and the proper markings. This will result in significant savings as the expenses for a physical audit are billed directly to you.**

At ASSE's discretion, each ASSE "listed" product can be tested to confirm compliance to the applicable selected sections of the applicable standard and the current edition of the *Seal Control Board Procedures*. Per the Seal Control Board procedures, current edition **"The period for retesting shall not exceed seven (7) years."**

Display of the ASSE Seal is not a product endorsement. Display of the ASSE Seal is confirmation that the product has been submitted to an ASSE listed independent laboratory for testing to the applicable product performance standard/s, reviewed by the eligible, voting members of the Seal Control Board and found to be in compliance with the standard.

As the Listee, you agree to adhere to the provisions of the *Seal Control Board Procedures*, (latest edition), including the necessary product laboratory reevaluation, factory audit, annual renewals identified therein, quality control system procedures and applicable fees.

In no event shall the American Society of Sanitary Engineering (ASSE), its Board of Directors, the Seal Control Board, the Product Standards Committee and all agents, consultants and employees incur any obligation or liability for damages, including, but not limited to, consequential damages arising out of or in connection with displaying the ASSE Seal. Furthermore, in the event that any change or modification is made to the product/s, such as, but not limited to construction, material, design, shape, configuration or any other part of the product and the Seal Control Board was not advised of such changes prior to its distribution, the Listee to the fullest extent permitted by law and regulations shall indemnify and hold harmless the ASSE, including its Board of Directors, Seal Control Board, Product Standards Committee and all their agents, consultants and employees from and against all claims, damages, losses, and expenses, direct, indirect or consequential (including, but not limited to, fees and charges of engineers, attorneys, and other professionals and court and arbitration costs) arising out of or resulting from a failure of the product/s which results in bodily injury, sickness, disease or death or to injury or destruction of tangible property.

On behalf of the ASSE Board of Directors and the Seal Control Board, I want to congratulate you in your effort to provide the plumbing industry with a product that has earned the ASSE recognition.

If ASSE can provide any further information to you regarding this program, please do not hesitate to contact the ASSE International office.

Sincerely,



Linden Raimer

Seal Control Board Chairman

cc: ASSE Seal Control Board, Board of Directors

American Society of Sanitary Engineering

FOR PLUMBING AND SANITARY RESEARCH



This certifies **Champion Arrowhead**

has listed a **Vacuum Breaker Wall Hydrants, Frost Resistant, Automatic Draining Type**

Model:

425 BFP 1/2-14NPT & 3/4-11.5 Hose Thread Outlet – Type A

426 BFP 1/2-14NPT Inlet & 3/4-11.5 Hose Thread Outlet - Type A

460 Series (460, 465, 466, 469) 14" X 1/2" MNPT x 1/2" Sweat Inlet, 3/4" outlet- Type A

Was tested by: **SGS US Testing**

And met the requirements as stated by ASSE Standard **1019-2004**, is in compliance to the current edition of the Seal Control Board Procedures and has been granted permission by the Seal Control Board to display the ASSE Seal on **06/22/1987 amended 03/25/2008**

This authorization is issued for one (1) year from date hereon and is renewable annually or until such time as the standard has been revised or the product/s is found not in compliance. Display of the ASSE Seal is not a product endorsement.

The American Society of Sanitary Engineering has created the Seal Listing Program to encourage improvements in plumbing products and systems in the interests of greater protection of public health and safety.

ASSE Record Number: **156**

A handwritten signature in black ink that reads "Linden Palmer".

ASSE Seal Control Board Chairperson





1906 - 2006

American Society of Sanitary Engineering

FOR PLUMBING AND SANITARY RESEARCH

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PAUL R. BLADDICK
LPB Company
379 Shotwell Ct.
White Lake, MI 48386-2358

March 25, 2008

Champion Arrowhead

Chris Davey

5147 Alhambra Ave

Los Angeles, CA 90032

Dear Chris:

It is our pleasure to advise you of the Seal Control Board's authorization to display the ASSE Seal on **Champion Arrowhead's 460 Series (460, 465, 466, 469) under Standard #1019-2004. Champion Arrowhead is required to visibly display the ASSE Seal and the numerals indicating the appropriate performance standard on the product (unless otherwise noted as per Section V of the current edition of the Seal Control Board Procedures).** Failure to display the ASSE Seal shall be cause for removing the product from the ASSE approved listing, the Seal List Book and the ASSE webpage. For Listees, the artwork for the ASSE Seal can be downloaded from the ASSE webpage at <http://www.asse-plumbing.org>.

Your authorization certificate is enclosed. If there are any discrepancies between your files and the information on the certificate, please contact ASSE as soon as possible.

Every year the authorization shall be renewed. A yearly renewal notice shall be forwarded. The renewal shall include a letter stating the product/s have not changed or been modified without prior, written consent from the Seal Control Board in the past year, together with the applicable renewal fee.

Annually a factory audit shall be conducted. **As per the current edition of the Seal Control Board Procedures-Section 7.2B - your quality management system shall include a record of complaints and these records shall be available to the ASSE (or the ASSE auditor), when requested. Should your manufacturing facility for the listed product/s have ISO 9001-2000 certification, a physical audit is not required. Forward a copy of the ISO certification to the ASSE International Office with a list of local suppliers where ASSE can either purchase or review the product for compliance to the application documentation on file and the proper markings. This will result in significant savings as the expenses for a physical audit are billed directly to you.**

At ASSE's discretion, each ASSE "listed" product can be tested to confirm compliance to the applicable selected sections of the applicable standard and the current edition of the *Seal Control Board Procedures*. Per the *Seal Control Board Procedures*, current edition, **"The period for retesting shall not exceed seven (7) years."**

Display of the ASSE Seal is not a product endorsement. Display of the ASSE Seal is confirmation that the product has been submitted to an ASSE listed independent

PLAL-03/08/2007 Word -g drive/data/scb/application and approval information/
product listing approval letter

THE SOCIETY ASSUMES NO RESPONSIBILITY FOR ANY STATEMENT OF ANY OFFICER, MEMBER OR STAFF WHICH MAY BE CONSTRUED AS AN APPROVAL OR DISAPPROVAL OF ANY METHOD OR APPLIANCE UNLESS SUCH APPROVAL OR DISAPPROVAL HAS BEEN SANCTIONED BY RESOLUTION OR ACTION BY THE BOARD OF DIRECTORS.

laboratory for testing to the applicable product performance standard/s, reviewed by the eligible, voting members of the Seal Control Board and found to be in compliance with the standard.

As the Listee you agree to adhere to the provisions of the *Seal Control Board Procedures*, (latest edition), including the necessary product laboratory reevaluation, factory audit, annual renewals identified therein, quality control system procedures and applicable fees.

In no event shall the American Society of Sanitary Engineering (ASSE), its Board of Directors, the Seal Control Board, the Product Standards Committee and all agents, consultants and employees incur any obligation or liability for damages, including, but not limited to, consequential damages arising out of or in connection with displaying the ASSE Seal. Furthermore, in the event that any change or modification is made to the product/s, such as, but not limited to, construction, material, design, shape, configuration or any other part of the product and the Seal Control Board was not advised of such changes prior to its distribution, the Listee to the fullest extent permitted by law and regulations shall indemnify and hold harmless the ASSE, including its Board of Directors, Seal Control Board, Product Standards Committee and all their agents, consultants and employees from and against all claims, damages, losses, and expenses, direct, indirect, or consequential (including, but not limited to, fees and charges of engineers, attorneys, and other professionals and court and arbitration costs) arising out of or resulting from a failure of the product/s which results in bodily injury, sickness, disease or death or to injury or destruction of tangible property.

On behalf of the ASSE Board of Directors and the Seal Control Board, I want to congratulate you in your effort to provide the plumbing industry with a product that has earned the ASSE recognition.

If ASSE can provide any further information to you regarding this program, please do not hesitate to contact the ASSE International Office.

Sincerely,



Linden Raimer

Seal Control Board Chairman

cc: ASSE Seal Control Board; Board of Director

TEST REPORT



CLIENT: Arrowhead Brass Products
5147 Alhambra Ave.
El Sereno, CA 90032

Attention: Frank Enterante

Test Report No: 550475	Date: October 9, 2006
-------------------------------	------------------------------

REFERENCE: Letter

SUBJECT: ASSE 1011 Evaluation

SAMPLE ID: Three samples identified by client as “**Model No. 361 (Hose Connection Vacuum Breaker)**” were received on 2/28/06 in good condition.

PROCEDURE: The samples were evaluated in accordance with ASSE 1011-2004. No revisions will be made to this report ninety days after report date.

TEST DATE: 9/18/06 – 9/28/06

RESULTS: See test data on the following page.

CONCLUSION: The sample tested does comply with the requirements of ASSE 1011-2004

CERTIFICATION: The tests reported here were conducted under the continuous direct supervision of SGS U.S. Testing Company Inc., Tulsa, OK.

**SIGNED FOR AND ON BEHALF OF
SGS U.S. TESTING COMPANY INC.**

Scott Parkhurst
Hydro Mechanical Dept. Supervisor

Jerry Murray
Hydro Mechanical Dept. Manager

This report is issued by SGS U.S. Testing Company Inc. under its General Conditions for Testing Services, as printed on reverse side. SGS U.S. Testing's responsibility under this report is limited to proven negligence and will in no case be more than the amount of the testing fees. Except by special arrangement, samples are not retained by SGS U.S. Testing for more than 30 days. The results shown on this test report refer only to the sample(s) tested unless otherwise stated, under the conditions agreed upon. Anyone relying on this report should understand all of the details of the engagement. Neither the name, seals, marks nor insignia of SGS U.S. Testing may be used in any advertising or promotional materials without the prior written approval of SGS U.S. Testing. The test report cannot be reproduced, except in full, without prior written permission of SGS U.S. Testing Company Inc.

Test Procedure and Results

Section I

1.0 General

1.1 Application

Pass

Is the purpose of the device, as stated by the manufacturer, as stated in this section? Yes
The device does comply with this section.

1.2.1 Description

Pass

Does the device conform to the product described in the standard? Yes
The device does comply with this section.

1.2.2 Sizes

Pass

Size. 3/4 in. Inlet 3/4 in. Outlet

1.2.3 Pressure

Pass

What is the maximum working pressure? 125 p.s.i.
This pressure is in compliance with this section.

1.2.4 Temperature Range

Pass

Was the device designed for flowing temperatures 33°F to 180°F? Yes
The temperature range is compliance with this section.

1.2.5.1 Atmospheric Vent

Pass

Did the atmospheric vent open when the supply pressure, from section 3.7, was applied? Yes

1.2.6 Repairability

Pass

Device shall be permitted to be repairable or non-repairable. The device is non-repairable as stated by manufacturer.

Section II

2.0 Test Specimens

2.1 Samples Submitted for Test

Pass

Please state the quantity of units provided for the evaluation. 3
The quantity submitted is in compliance with this section.

2.2 Samples Utilized **Pass**

How many units were utilized during the laboratory evaluation? 2
The number of units utilized for testing is in compliance with this section.

2.3 Drawings **Pass**

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 valve? Yes
Were these drawings reviewed in the laboratory? Yes
The submitted drawings and installation instructions were in compliance with this section.

2.4 Rejection **NA**

Section III

3.0 Performance Requirements and Compliance Testing

3.1 Hydrostatic Test Pressure **Pass**

What was the supply pressure at the inlet? 250 p.s.i.
The test period was for 5 minutes.
Were there any external leaks or damage to the device? No
The device is in compliance with this section.

3.2 Water Flow Capacity and Pressure Loss Test **Pass**

What was the flow rate during the test? 8.5 GPM (Requirement: 6.0 GPM)
What was the pressure loss? 25 p.s.i.
The device is in compliance with this section.

3.3 Deterioration at Maximum Rated Temperature and Pressure **Pass**

What was the water temperature used for this test? 180°F
What was the supply pressure used for this test? 125 psi
The test period was for 10 days at 8 hours per day.
The device showed no signs of external leakage.

3.4 Life Cycle Test **Pass**

Number of cycles completed? 5000 cycles
Total time to complete this cycle test? 300 minutes
Was there any deterioration of performance upon the completion of five thousand (5000) cycles? No

3.5 Resistance to Bending Test **Pass**

With a 100lb load subjected to the outlet for 3 minutes was there any external leakage? No (Requirement: No Leakage)
The device is in compliance with this section.

3.6 Low Head Back Pressure Test **Pass**

With a 6 inch (152 mm) water column back pressure, is this section in compliance? Yes
With a 10 foot (3 m) water column back pressure, is this section in compliance? Yes

3.7 Atmospheric Vent Opening Test **Pass**

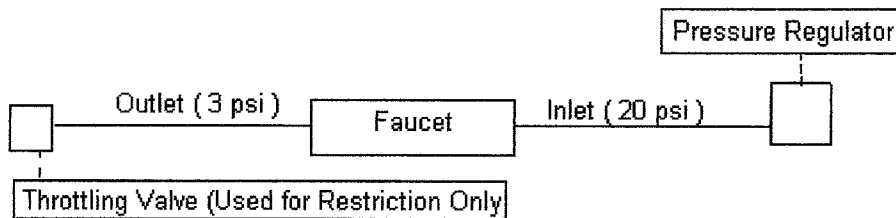
Did the device fully discharge the contents of the 25ft hose assembly? Yes
The device is in compliance with this section.

3.8 Leakage from Vent Ports Test **Pass**

Leakage at a pressure of less than 3 psi (20.7kPa)-Amount of leakage: 0 ml/min. (Requirement: Maximum of 118 ml/min)
Did the device have any leakage above 3 psi? No
The device is in compliance with this section.

***The test procedure was modified to accommodate a faucet with a built in vacuum breaker. The inlet pressure was set to 20 psi and the faucet was used to adjust the outlet pressure to 3 psi. With this configuration the device showed no signs of leakage.**

Configuration



3.9 Back Siphonage Test **Pass**

Gradually applied vacuum - In compliance? Yes
Rapidly applied alternating vacuum - In compliance? Yes
Check fouled as per Figure 9
The maximum rise of the meniscus in the sight glass was 0 inches. (Requirement: Maximum of 1/8in.)

Section IV

4.0 Detailed Requirements

4.1 Allowable Materials **NA**



- 4.1.1 Corrosion of Internal Parts** **Pass**
The metal parts (except for springs) that come in contact with the water supply are in compliance with this section.
- 4.1.2 Springs** **Pass**
The springs that come in contact with the water supply are equal to or greater than stainless steel series 300.
- 4.1.3 Seating** **Pass**
The seat and valve disc are of non-metallic materials which insure a pressure tight seating and reseating.
- 4.1.4 Hose Threads** **Pass**
Hose connections threads do conform to ANSI/ASME B1.20.7.
- 4.1.4.1 Inlet Connections** **Pass**
The inlet connections do provide a thread locking feature.
- 4.2 Markings**

 - 4.2.1 Identification** **Pass**
Identify the markings found on the test unit:
Name or trademark of Manufacture: Arrowhead Brass LLC
Model of device: 361
Maximum working pressure: 125 PSI
Maximum rated temperature: 180°F
 - 4.2.2 Method of Marking** **Pass**
Describe how these markings were made:
The markings were stamped into the vacuum breaker body per manufacturer drawings.
 - 4.3.1 Installation Instructions** **Pass**
Were instructions for installation and adjustment information submitted with the device? Yes
 - 4.3.2 Maintenance Instructions** **NA**

END OF REPORT