

## TEST REPORT

**CLIENT:** Dema Engineering Co  
10020 Big Ben Blvd.  
Saint Louis, MO 63132

**Attention:** Pete Smith

<b>Test Report No:</b> 654:004360R1	<b>Date:</b> June 15, 2007
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**REFERENCE:** Letter

**SUBJECT:** Evaluation of Air Gap Proportioners for compliance to ASME A112.1.3-2000 (Air Gap Fittings for Use with Plumbing Fixtures, Appliances, and Appurtenances).

**SAMPLE ID:** Two samples identified by client as Dema Blend Safe Model Number 662-639AG were received on 4/13/07 in good condition.

**PROCEDURE:** The unit was evaluated in accordance with ASME A112.1.3-2000. No revisions to this report will be allowed after 90 days of the report date.

**TEST DATE:** 4/26/07

**RESULTS:** See Below

**CONCLUSION:** The unit does comply with the requirements of ASME A112.1.3-2000.

**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.**

Clint Whittiker  
Hydro Mechanical Dept. Supervisor

S. Scott Parkhurst  
Hydro Mechanical Dept. Manager

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**Test Procedure and Results**

**5.1 Critical Level Pass**

The fittings were evaluated in accordance with the procedure from section 5.1.2.

Sample ID:	Critical Level Measured	Critical Level Marked on Device	Requirement
Green Air Gap Proportioner (164 AG)	1/8" (0.125") Below Window Top	0.1385"	Measured Critical Level must be at or below the Critical Level marked
White Air Gap Proportioner (163 AG)	9/16" (0.5625) Below Window Top	0.5665"	Measured Critical Level must be at or below the Critical Level marked

**5.2 Back Siphonage NA**

**5.3 Back Siphonage Cross Flow Test for Fittings with Multiple Inlets Pass**

The device was evaluated in accordance with the procedure from section 5.3.1.

There was no entrance of water in the sight tube when tested with the appropriate procedure.

**5.4 Back Pressure Test NA**

**6.0 Markings Pass**

The air gap fittings are permanently marked with the following information:

Manufacturer's Name: Dema  
Manufacturer's Model Number: 164AG / 163AG  
Manufacturer's Critical Level: Yes  
Flow Direction: Yes

**7.0 Installation Instructions Pass**

Installation instructions that included the maximum rated flow were provided with the device.

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**END OF REPORT**