ASSE International Product (Seal) Listing Program

ASSE 1052-2016

Performance Requirements for Hose Connection Backflow Preventers

Manufacturer:			
Contact Person:	E-mail:		
Address:			
	Laboratory File Number:		
Model # Tested:			
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 sample?			
Were all tests performed at the selected laboratory? ○ Yes ○ No			
f offsite, identify location:			

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 Control Board. The Seal Control 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	Gene	ral Application
		Is the purpose of the device, as described by the manufacturer, as stated in this section?
		☐ Yes ☐ No ☐ Questionable
		If no or questionable, explain
	1.2	Scope 1.2.1 Description
		Does the device conform to the product described in this standard?
		☐ Yes ☐ No ☐ Questionable
		If no or questionable, explain
		1.2.2 Size Range Inlet: inches (mm) Outlet: inches (mm)
		Does the device have a non-removable feature?
		☐ Yes ☐ No ☐ Questionable
		If no or questionable, explain
		1.2.3 Pressure Range What is the operating pressure range of the device as noted by the manufacturer? psi (kPa) to psi (kPa)
		Is the device in compliance with this section?
		☐ Yes ☐ No ☐ Questionable
		If no or questionable, explain
		1.2.4 Temperature Range What is temperature range of the device as noted by the manufacturer?°F (°C) to°F (°C)
		Is the device in compliance with this section?
		☐ Yes ☐ No ☐ Questionable
		If no or questionable, explain
Sect	ion II	
2.0	Test	Specimens
	2.1	How many units were submitted by the manufacturer?
	2.2	How many models were utilized during testing?
	2.3	Drawings 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 devices?
		☐ Yes ☐ No

Were the drawings	reviewed	by the laboratory?
	Yes	□ No

Section III

Performance Requirements and Compliance Testing

3.1	Hydrostatic Test of Complete Device What was the supply pressure used for this test? psi (kPa) How long was the pressure held for? minutes		
	Was there any indication of external leakage? ☐ Yes ☐ No ☐ Questionable If yes or questionable, explain		
	Is the device in compliance with this section? Yes Down Questionable If no or questionable, explain		
3.2	Water Flow Capacity and Pressure Loss What was the supply pressure used for this test? psi (kPa) At a 25 psi (172.4 kPa) pressure differential across the device, what was the flow rate? GPM (L/s)		
	Is the device in compliance with this section? Yes Questionable If no or questionable, explain		
Deterioration at Maximum Rated Temperature and Pressure What was the water temperature used for this test?°F (°C) What was the supply pressure used for this test? psi (kPa) What was the duration of the test? hours/day for days			
	Was there any indication of external leakage? — Yes — No — Questionable If yes or questionable, explain ————————————————————————————————————		
	Is the device in compliance with this section? Yes No Questionable If no or questionable, explain		
3.4	Life Cycle Test What was the water temperature used for this test?°F (°C) What was the supply pressure used for this test? psi (kPa) How many cycles was the device subjected to? cycles. What was the cycling speed? cycles/minute		
	Is the device in compliance with this section? ☐ Yes ☐ No ☐ Questionable If no or questionable, explain		

3.5	.5 Resistance to Bending What torque was created for this test? ft-lbf How long was the load held for? minutes What was the device pressurized to for this test? psi (kPa)		
	Were there any visible external leaks during the test? Yes No Questionable If yes or questionable, explain		
	Is the device in compliance with this section? Yes No Questionable If no or questionable, explain		
3.6	Tightness of Outlet Check Valve What was the initial height of water in the sight glass? inches (mm) What was the final height of water in the sight glass? inches (mm) What was the duration of the test? minutes		
	Is the device in compliance with this section? Yes No Questionable If no or questionable, explain		
3.7	Tightness of Inlet Check Valve What was the initial height of water in the sight glass? inches (mm) What was the final height of water in the sight glass? inches (mm) What was the duration of the test? minutes		
	Is the device in compliance with this section? Yes No Questionable If no or questionable, explain		
3.8	Leakage from Vent Ports At what inlet pressure did the highest rate of discharge occur? psi (kPa) What was the rate of leakage flow at the above inlet pressure? ounces/minute (ml/minute) Was there any leakage at or above a pressure of 3 psi (20.7 kPa)? Yes No Questionable If yes or questionable, explain		
	Is the device in compliance with this section? ☐ Yes ☐ No ☐ Questionable If no or questionable, explain		
3.9	Backflow Through Inlet Check Valve At 6 inches (152.4 mm) water column: How long was the water level held for? minutes Was there any loss of water level in the sight glass or leakage through the inlet check valve?		
	☐ Yes ☐ No ☐ Questionable If yes or questionable, explain		

	At 10 feet (3.0 meters) water column: How long was the water level held for? minutes Was there any loss of water level in the sight glass or leakage through the inlet check valve? Yes No Questionable If yes or questionable, explain
	ii yes oi questionable, explain
	Is the device in compliance with this section? Yes Questionable If no or questionable, explain
3.10	Backflow Through Outlet Check Valve At 6 inches (152.4 mm) water column: How long was the water level held for? minutes Was there any loss of water level in the sight glass or leakage through the outlet check valve at the atmospheric vent? Yes No Questionable If yes or questionable, explain
	At 10 feet (3.0 meters) water column: How long was the water level held for? minutes Was there any loss of water level in the sight glass or leakage through the outlet check valve at the atmospheric vent? Yes No Questionable If yes or questionable, explain
	At 125 psi (861.9 kPa) or the manufacturer's maximum rated working pressure, if greater. How long was the pressure held for? minutes Was there any loss of water level in the sight glass or leakage through the outlet check valve at the atmospheric vent? Yes No Questionable If yes or questionable, explain
	Is the device in compliance with this section? Yes No Questionable If no or questionable, explain
3.11	Backsiphonage What vacuum was applied and held? inches (mm) of mercury How long was this vacuum held for? minutes
	During the slowly applied vacuum, what was the vacuum raised to? inches (mm) of mercury During the slowly applied vacuum, what was the vacuum reduced to? inches (mm) of mercury
	During the surge effect, what was the applied vacuum? inches (mm) of mercury

	What was the maximum rise of the meniscus in the sight glass? inches (mm)			
	Is the device in compliance with this section? ☐ Yes ☐ No ☐ Questionable			
	If no or questionable, explain			
3.12	Backsiphonage and Back Pressure With the inlet check valve fouled: What was the supply pressure during the test? psi (kPa) What vacuum was applied and held? inches (mm) of mercury How long was this vacuum held for? minutes			
	During the slowly applied vacuum, what was the vacuum raised to? inches (mm) of mercury During the slowly applied vacuum, what was the vacuum reduced to? inches (mm) of mercury			
	During the surge effect, what was the applied vacuum? inches (mm) of mercury			
	Was there any indication of flow of water from the outlet of the device into the inlet piping? ☐ Yes ☐ No ☐ Questionable			
	If yes or questionable, explain			
	With the outlet check valve fouled: What was the supply pressure during the test? psi (kPa) What vacuum was applied and held? inches (mm) of mercury How long was this vacuum held for? minutes			
	During the slowly applied vacuum, what was the vacuum raised to? inches (mm) of mercury During the slowly applied vacuum, what was the vacuum reduced to? inches (mm) of mercury			
	During the surge effect, what was the applied vacuum? inches (mm) of mercury			
	Was there any indication of flow of water from the outlet of the device into the inlet piping? ☐ Yes ☐ No ☐ Questionable			
	If yes or questionable, explain			
	Did the device comply with this section? ☐ Yes ☐ No ☐ Questionable			
	If no or questionable, explain			
3.13	Relief of Intermediate Chamber Pressure Did the atmospheric vents open?			
	☐ Yes ☐ No ☐ Questionable If no or questionable, explain			

		Did the device comply with this section? Yes Questionable If no or questionable, explain			
	3.14	Non-Removable Feature Was the device removed without damage to the hose threaded connection? Yes No Questionable If yes or questionable, explain			
		Did the device comply with this section? Yes Questionable If no or questionable, explain			
Sec	tion IV				
4.0	Detai 4.1	Materials 4.1.1 Metallic Parts Do metal parts, except springs, in contact with water flowing through the device have a corrosion resistance at least equal to a copper allow of not less than 58%? Yes No Questionable If no or questionable, explain			
		4.1.2 Springs Do springs have a corrosion resistance at least equal to chrome nickel 300-series stainless steel? Yes No Questionable If no or questionable, explain			
		4.1.3 Atmospheric Vent Ports Are the atmospheric vent ports a non-standard plumbing size? Yes No Questionable If no or questionable, explain			
		4.1.4 Metal to Metal Seating Is there metal to metal seating of check valves and atmospheric vents? Yes No Questionable If yes or questionable, explain			
		Are the seat and/or valve disc made of non-metallic materials that provide pressure tight seating and reseating? ———————————————————————————————————			

4.2	Instructions for Marking		
	State the information marked on the device:		
(a) Name or trademark of manufacturer:			
	(b) Model number:		
	How were the markings applied?		
4.3	Installation Instructions		
	Were instructions for installing, field testing and field repairing submitted with the		
	device?		
	☐ Yes ☐ No ☐ Questionable		
	If no or questionable, explain		

LISTED LABORATORY:			
ADDRESS:			
	FAX:		
TEST ENGINEER(S):			
If applicable:			
OUTSOURCED LABORATORY:			
ADDRESS:			
PHONE:	FAX:		
TEST ENGINEER(S):			
Scope of outsourced testing:			
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 listed laboratory:			
,	Signature		
Title of the official:	Date:		