ASSE International Product (Seal) Listing Program

ASSE 1014-2020

Performance Requirements for Backflow Prevention Devices for Hand-held Showers

Manufacturer:			
	E-mail:		
Address:			
	Laboratory File Number:		
Model # Tested:			
Model Size:			
Additional models report applies to:			
			Date models received by laboratory:
Date testing was completed			
If models were damaged during shipment, describe damages:			
Prototype or production sample?			
Were all tests performed at the selected lab	oratory? ○ Yes ○ No		
If 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	Gener	al					
1.1	Applic	ation					
	Does the device meet the application?						
				O Questionable			
	If no o	r questionable, explain					
1.2	Scope and Purpose						
	1.2.1	Description					
	Does this device conform to this section?						
		O Yes	O No	O Questionable			
		If no or questionable, explain					
	1.2.3	Minimum Working Press What inlet working press		vice designed to withstand? psi (kPa)			
	1.2.4	to°C)		signed to function at?°F to°F (°C)			
	1.2.5	Connections					
	Do connections for non-integral devices conform to ASME A112.18.1 / CSA B125.1?						
		○ Yes If no or questionable, exp		O Questionable			
	1.2.6	Two Check Valves					
		Do devices with two check valves in series comply with ASME A112.18.3 as a fitting with internal backflow prevention devices?					
		O Yes If no or questionable, exp		O Questionable			

Section III

3.0	Perfor	mance Requirements and Compliance Testing	
3.1	Deteri	ration at Extremes of Temperature and Pressure Test	
	3.1.2	Procedure	
	0.1.1	b. What pressure was water through the device flowed at? psi (kPa)	
		c. What was the inlet water temperature adjusted to?°F (°C)	
		How long was water flowed for? minutes	
		d. What was the water temperature increased to?°F (°C)	
		How long was water flowed for? minutes	
		e. Perform the Pressure and Temperature Test for Static and Dynamic Seals in ASME	
		A112.18.1 / CSA B125.1:	
		Procedure with the valve closed	
		Was the test conducted in an ambient environment of $20 \pm 5^{\circ}$ C ($68 \pm 9^{\circ}$ F)?	
		O Yes O No O Questionable	
		If no or questionable, explain	
		a) What was the test temperature?°F (°C)	
		What was the test pressure? psi (kPa)	
		How long was the device tested for? minutes	
		b) What was the test temperature?°F (°C)	
		What was the test pressure? psi (kPa)	
		How long was the device tested for? minutes	
		c) What was the test temperature?°F (°C)	
		What was the test pressure? psi (kPa)	
		How long was the device tested for? minutes	
		d) What was the test temperature?°F (°C)	
		What was the test pressure? psi (kPa)	
		How long was the device tested for? minutes	
		Procedure with the outlet(s) blocked	
		Was the test conducted in an ambient environment of 20 ± 5 °C (68 ± 9 °F)?	
		O Yes O No O Questionable	
		If no or questionable, explain	
		a) What was the test temperature?°F (°C)	
		What was the test pressure? psi (kPa)	
		How long was the device tested for? minutes	
		b) What was the test temperature?°F (°C)	
		What was the test pressure? psi (kPa)	
		How long was the device tested for? minutes	
		c) What was the test temperature?°F (°C)	
		What was the test pressure? psi (kPa)	
		How long was the device tested for? minutes	
		d) What was the test temperature?°F (°C)	
		What was the test pressure? psi (kPa)	
		How long was the device tested for? minutes	
	3.1.3	Criteria	
		Was there any indication of external leakage?	
		O Yes O No O Questionable	
		If ves or questionable, explain	

		Is the device in compliance with this section?						
		O Yes O No O Questionable						
		If no or questionable, explain						
3.2	Life Cycle Test							
·	-	Procedure						
		a. For devices integral to a handheld shower assembly:						
		What was the flowing pressure? psi (kPa)						
		For non-integral devices:						
		What flow rate was established? GPM (L/min)						
		What was the flowing pressure? psi (kPa)						
		b. What was the cycling rate? cycles/hour						
		What was the pressure range of the cycles? psi to psi (kPa to kPa)						
		The incoming water temperature was alternated between°F (°C) and°F (°C) every cycles.						
		c. How many cycles was the device subjected to? cycles						
		d. For devices integral to a handheld shower assembly:						
		What was the flowing pressure? psi (kPa)						
		How long was water flowed for? minutes						
		For non-integral devices:						
		What flow rate was established? GPM (L/min)						
		What was the flowing pressure? psi (kPa)						
		How long was water flowed for? minutes						
		e. What static pressure was maintained on the inlet of the device? psi (
		kPa)						
		f. How long was the static pressure maintained? minutes						
	3.2.2	Criteria						
		Was there any indication of external leakage after the test when the gauge pressure of						
		125.0 psi (861.9 kPa) is applied with the shut-off valve in a closed position?						
		O Yes O No O Questionable						
		If yes or questionable, explain						
		Is the device in compliance with this section?						
		O Yes O No O Questionable						
		If no or questionable, explain						
3.3	Contin	nuous Capacity						
	3.3.2	Procedure						
	3.3.2	a. What was the length of the handheld shower hose? inches (mm)						
		d. How far above the centerline of the device was the discharge end of the shower						
		hose raised to? inches (mm)						
		e. How long was water in the shower hose held for? minutes						
		f. How far above the centerline of the device was the discharge end of the shower						
		hose raised to? inches (mm)						
		How long was water in the shower hose held for? minutes						

	3.3.3	Criteria					
		Was there any indication of leakage?					
		O Yes O No O Questionable					
		If yes or questionable, explain					
		Is the device in compliance with this section?					
		O Yes O No O Questionable					
		If no or questionable, explain					
3.4	Racksi	phonage Test					
J. T							
	3.4.2	2 Procedure a. What was the diameter of the wire used to foul the inlet check valve?					
		inches (mm)					
		b. What was the inside diameter of the sight glass connected to the discharge end of					
		the shower hose? inches (mm)					
		c. For Steps c and d, fill out the table below with the vacuum applied, and how long					
		the vacuum was held for.					
		Vacuum Applied Time Vacuum was Held For					
		in-Hg (kPa) seconds					
		in-Hg (kPa)seconds					
		in-Hg (kPa) seconds					
		in-Hg (kPa) seconds					
		in-Hg (kPa) seconds					
		e. A vacuum was alternated between in-HG and in-HG (kPa and					
		kPa) for cycles.					
	2.4.2						
	3.4.3 Criteria						
		What was the maximum rise of water in the sight glass? inches (mm)					
		Is the device in compliance with this section?					
		O Yes O No O Questionable					
		If no or questionable, explain					
Secti	ion IV						
4.0	Detail	ed Requirements					
4.1	Materials						
7.1	What is the lead content of the solder and fluxes in contact with potable water?%						
	Are there any metal alloys in contact with potable water?						
	O Yes O No O Questionable						
	If questionable, explain						
		what is the lead content of the metal alloys in contact with potable water?%					
	,,						
4.2	Install	ation Instructions					
	Were	instructions for installation packaged with the device?					
		O Yes O No O Questionable					
	It aues	stionable, explain					

	Were instructions for maintenance of field repairable devices and testing for field testable devices packaged with the device?				
	O Yes O No O Questionable				
	If questionable, explain				
	Check all those that were found on the installation instructions: Inlet and outlet connection sizes. Maximum working pressure. Minimum and maximum flow rate. Minimum stated flow.				
.3	Markings				
	4.3.1				
	Does the device have the following marked?				
	☐ The name of manufacturer or trademark on the device.				
	☐ The type or model number on the device or in the installation instructions.				
	4.3.2				
	Are markings cast, etched, stamped, or engraved on the body of the device?				
	O Yes O No O Questionable O N/A				
	If questionable, explain:				
	Do labels comply with UL 969 for permanence?				
	O Yes O No O Questionable O N/A				
	If no or questionable, explain:				

LISTED LABORATORY.		
LISTED LABORATORY:		
ADDRESS:		
PHONE:	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:	