ASSE International Product (Seal) Listing Program

ASSE 1001-2021

Performance Requirements for Atmospheric Type Vacuum Breakers

Manufacturer:				
Contact Person:	E-mail:			
Address:				
Laboratory:				
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 of	damages:			
Prototype or production sample?				
Were all tests performed at the selected laboratory?	O Yes O 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 General 1.2 Does this device conform to the scope stated in the standard? O No O Questionable O Yes If no or questionable, explain _____ The device's size is: _____ NPS (DN) 1.2.2 This device can be characterized as: Pipe-applied Flushometer-applied Integrally-applied If none of these, explain: Is the device deck-mounted? • Yes • No • Questionable If questionable, explain: 1.2.3 Minimum and maximum working pressures as stated by the manufacturer's specification Minimum: _____ psi (_____ kPa) Maximum: ____ psi (____ kPa) 1.2.4 This device is designed for: O Cold water service O Hot & cold water service O Questionable If questionable, explain _____ 1.3 Limitation on Design Are female threaded pipe connections constructed such that it will not restrict flow or interfere with working parts? O Yes O No Questionable O N/A If no or questionable, explain Section II 2.0 Test specimens How many samples were received? ______ 2.1 Section III 3.0 Performance Requirements and Compliance Testing 3.1 Deterioration at Extremes of Manufacturer's Temperature and Pressure Range Test 3.1.2 Procedure

Manufacturer's maximum rated temperature: _____ °F (_____ °C).

Water temperature during test: _____ °F (_____ °C). Water pressure during test: _____ psi (_____ kPa).

Did the	e air inlet valve ret	ırn to its fully opened positio	n when system returned to	atmospheric pressure,
	after hour 8,	O Yes O No		
	after hour 16,	O Yes O No		
	after hour 24,	O Yes O No		
	after hour 32,	O Yes O No		
	after hour 40,	O Yes O No		
	after hour 48,	O Yes O No		
	after hour 56,	O Yes O No		
	after hour 64,	O Yes O No		
	after hour 72,	O Yes O No		
	after hour 80,	O Yes O No		
	minute(s)	after the test, water at	_ °F (°C) was circu	lated for hour(s).
	Next_water at	°F (°C) was circ	ulated	
		vas increased to: psi		ained for minutes
	rrater precedite	por	(na a). na mao mame	<u></u>
	For pipe-applied	devices: post-test test press	sure psi (kP	a)
	3.1.3 Criteria			
	Any leak	s observed?		
	O Yes	O No O Question	onable	
	If yes or	questionable, explain:		
3.2	Allowable Press	re Loss at Rated Flow Test		
	The average flow	rate through the device wa	ns: gpm (L/se	c)
	The dynamic inle	t pressure was: psi (_	kPa)	
	The dynamic pre	ssure loss through the devic	e was: psi (k	Pa)
	In comp	ance?	O Yes O No	Questionable
	If no or o	uestionable, explain:		
3.3	Examination of A	ir Inlet Shield		
0.0			uctions, does the air inlet	shield extend to the bottom
		opening or lower?	,	
	O Yes	O No O Question	onable	
	If auesti	onable, explain:		
	·	· •		
	What is the min	mum clearance between the	e air inlet and the shield? _	in (mm)
3.4	Air Flow Test			
	3.4.2 Procedu	re		
	3.4.2.1. P	ocedure for check valve		
		moving member held fully	open?	
		O No O Questio		

If questionable, explain:
Was the air inlet valve held fully closed? O Yes O No O Questionable If questionable, explain:
The vacuum in the tank was dissipated from: in-Hg (kPa) to in-Hg (kPa)
The time to dissipate the vacuum was: Trial 1: sec Trial 2: sec Trial 3: sec These values shall be at least 10 seconds, or the test bench needs to be modified.
3.4.2.3. Or 3.4.2.4 Procedure for air vent Was the check or moving member held fully closed? O Yes O No O Questionable If questionable, explain:
Was the air inlet valve held fully open? O Yes O No O Questionable If questionable, explain:
The vacuum in the tank was dissipated from: in-Hg (kPa) to in-Hg (kPa) The time to dissipate the vacuum was: Trial 1: sec Trial 2: sec Trial 3: sec
3.4.3 Is the device in compliance? • Yes • No • Questionable If no or questionable, explain
Backsiphonage Test 3.5.2 Procedure The wire diameter used for fouling was in (mm) The type of check most closely resembles Figure in the standard. Describe any unique properties:
Describe now the rouning wire was placed.
Initial height from device's critical level to the fluid level in receptacle: in (mm) Precision of measuring instrument (e.g. distance between graduations): in (mm)

3.5

3.5.2.1. Data collection

<u>Trial 1</u>				
a)	Instantly applied constant vacuum of _	in-Hg (kPa) for sec	:
b)	Instantly applied vacuum of in-H	g (kPa) for	sec on and _	sec off.
	Instantly applied vacuum of in-H	g (kPa) for	sec on and _	sec off.
	Instantly applied vacuum of in-H			
	Instantly applied vacuum of in-H	g (kPa) for	sec on and _	sec off.
	Instantly applied vacuum of in-H	g (kPa) for	sec on and _	sec off.
c)	Slowly apply vacuum from in-Hg			
	to in-Hg			
	and back to in-Hg	(kPa), over	sec.	
	Maximum rise of water column during	any test: in	(mm)	
Trial 2				
a)	Instantly applied constant vacuum of _	in-Hg (kPa) for sec	
b)	Instantly applied vacuum of in-H	g (kPa) for	sec on and _	sec off.
	Instantly applied vacuum of in-H	g (kPa) for	sec on and _	sec off.
	Instantly applied vacuum of in-H	g (kPa) for	sec on and _	sec off.
	Instantly applied vacuum of in-H			
	Instantly applied vacuum of in-H	g (kPa) for	sec on and _	sec off.
c)	Slowly apply vacuum from in-Hg	(kPa)		
	to in-Hg	(kPa)		
	and back to in-Hg		sec.	
	Maximum rise of water column during	any test: in	(mm)	
Trial 3				
a)	Instantly applied constant vacuum of _	in-Hg (_ kPa) for sec	:
b)	Instantly applied vacuum of in-H			
	Instantly applied vacuum of in-H	g (kPa) for	sec on and _	sec off.
	Instantly applied vacuum of in-H	g (kPa) for	sec on and _	sec off.
	Instantly applied vacuum of in-H			
	Instantly applied vacuum of in-H	g (kPa) for	sec on and _	sec off.
c)	Slowly apply vacuum from in-Hg	(kPa)		
	to in-Hg	(kPa)		
	and back to in-Hg	(kPa), over	sec.	
	Maximum rise of water column during	any test: in	(mm)	

<u>Trial 4</u>				
a)	Instantly applied constant vacuum of	in-Hg (kPa) for sec	
b)				sec off.
	Instantly applied vacuum of in-Hg			
	Instantly applied vacuum of in-Hg			
	Instantly applied vacuum of in-Hg	(kPa) for	sec on and	sec off.
	Instantly applied vacuum of in-Hg			
c)	Slowly apply vacuum from in-Hg (kPa)		
	to in-Hg (kPa)		
	and back to in-Hg (kPa), over	sec.	
	Maximum rise of water column during a	ny test: in	(mm)	
<u>Trial 5</u>				
a)	Instantly applied constant vacuum of	in-Hg (kPa) for sec	
b)	, <u>——</u>			
	Instantly applied vacuum of in-Hg	(kPa) for	sec on and	sec off.
	Instantly applied vacuum of in-Hg	(kPa) for	sec on and	sec off.
	Instantly applied vacuum of in-Hg	(kPa) for	sec on and	sec off.
	Instantly applied vacuum of in-Hg	(kPa) for	sec on and	sec off.
c)	Slowly apply vacuum from in-Hg (kPa)		
	to in-Hg (
	and back to in-Hg (sec.	
	Maximum rise of water column during a	ny test: in	(mm)	
Were c	corrections made for test lab's elevation?	O Yes O No)	
	3.5.3 Is the device in compliance?	Yes O No	Questionable	
	If no or questionable, explain:			
	· · · · · · · · · · · · ·			
3.6	Evaluation of Female Threaded Connecti	ons		
		- -		
	Does the device have female threaded co	onnections?	O Yes O No O Q	uestionable
	If questionable, explain:			
	,			
	Is the device in compliance? • Yes	s ONo O	Questionable O N	′ A
	If no or questionable, explain:			
3.7	Hydrostatic Test of the Complete Davise			
5./	Hydrostatic Test of the Complete Device			
	Device filled to a pressure of: psi (
	Pressure maintained for: minutes			
	le the device in consultance O	- ON- O	Ougationak!-	
	Is the device in compliance? • Yes			
	If no or questionable, explain:			

Section IV

4.0	Detailed Requirements
1.1	Materials Are there any metal-to-metal sealing members on the device? O Yes O No O Questionable If no or questionable, explain
1.2	Pipe Threads
	Are taper threads incompliance with ASME B1.20.1 • Yes • No • Questionable • N/A If no or questionable, explain:
	Are dryseal pipe threads incompliance with ASME B1.20.3 O Yes O No O Questionable O N/A If no or questionable, explain:
	Are other connections to external components in compliance with their appropriate standards? O Yes O No O Questionable O N/A If no or questionable, explain:
	State the relevant standards:
1.3	Markings Is the method of marking information on the product in compliance with the standard? • Yes • No • Questionable If no or questionable, explain:
	4.3.1 Marking of Pipe-Applied Devices Section is: • Applicable • N/A
	State the information given on the product: Manufacturer's name or trademark: Model number:
	Rated working pressure: Nominal valve size: Direction of water flow:
	Critical level: O Yes O No O Questionable O N/A The words "Deck Mounted": O Yes O No O Questionable O N/A
	4.3.2 Marking of Integrally Applied and Flushometer-Applied Devices Section is: O Applicable O N/A
	State the information given on the product: Manufacturer's name or trademark: Model number:
	Critical level: O Yes O No O Questionable O N/A The words "Deck Mounted": O Yes O No O Questionable O N/A

1.3	Is the d	I level ritical level present: O Yes evice incorporated in an outlet t s the critical level marked on th ritical level appropriately located	ube: O Ye e outside o	es (of device:	O No O Questional O Yes O No O Qu	uestionable O N/A	
	Is the	device in compliance?	Yes O	No O	Questionable		
1.4	Installa 4.4.1	ation and Maintenance Instruct Included items within Installa		ctions			
		items are a part of the installat awings or sketches of proper in If no or questionable, explain:	stallation i • Yes	included? • No		O N/A	
	Are sta	tements that describe that: The device shall be installed i code. The device shall not be install normal functioning causes da The device shall be installed s	ed where mage.	the ventir	ng of water from the o	device during its	
		Included? If no or questionable, explain:	O Yes	O No	O Questionable	O N/A	_
		statement, "This atmospheric v ere than twelve (12) hours"	acuum bre	eaker shal	not be subjected to	continuous pressui	e
		Included? If no or questionable, explain:		O No		O N/A	_
	4.4.4	Repair Instructions Is the device capable of being If no or questionable, explain:	O Yes	O No	O Questionable	O N/A	

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:		