American Society of Sanitary Engineering PRODUCT (SEAL) LISTING PROGRAM



ASSE STANDARD #1047 - REVISED: 2011 Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

Separate, complete laboratory evaluation report forms for each alternate orientation much be	e submitted t	o ASSE for review.
MANUFACTURER:		
CONTACT PERSON: E-MAIL:		
ADDRESS:		
LABORATORY FILE NUMBER:		
MODEL # TESTED:		
MODEL SIZE:		
ADDITIONAL MODELS REPORT APPLIES TO:		
ADDITIONAL MODEL INFORMATION (i.e. orientation, series, end connections, shut-off valves):		O RPDA
	O HORIZ	ONTAL
DATE MODELS RECEIVED BY LABORATORY:		CAL FLOW UP
DATE TESTING BEGAN:	O VERTI	CAL FLOW DOWN
DATE TESTING WAS COMPLETED: OTHI	ER O	
IF MODELS WERE DAMAGED DURING SHIPMENT, DESCRIBE DAMAGES:		
PROTOTYPE OR PRODUCTION:		

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 Board. The Seal 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 1 1.0 General

1.1	Application Does the purpose of the device agree with that of the stall f questionable, explain: NOTE: This standard applies to single as well as manifold.			O Questionable
1.2.1	Description Does the device conform to the product described in the	standard?	_	Yes O No Questionable
	If questionable, explain:			
	Is the assembly a RPDA or a RPDA-II?		O RPDA	O RPDA-II
	Identify the by-pass device on this assembly?			
1.2.2	Size		inches (mm)
1.2.3	Pressure Range What is the maximum working pressure of the mainline a	•	•	
	What is the maximum working pressure of the by-pass as		stated by th	ne manufacturer? kPa)
1.2.4	Temperature Range What is the temperature range as stated by the manufac °F to °F (°C	turer: C to	°C)	
1.3.2.1	Relief Valve Connections Indicate shape of discharge port. Can a threaded pipe, a screwed fitting or a tubing be cordischarge port? If questionable, explain:	O Yes	O No	ternally to the O Questionable
1.3.2.2	Were female pipe threaded connections so constructed to pipe into them far enough to restrict the flow through the parts? If questionable, explain:	e assembly O Yes	or interfere	
1.3.2.3	Is the assembly repairable and seats replaceable without	removing t	he assembly O No	from the line?
	If questionable, explain:			
1.3.2.5	Were test cocks properly located? If questionable, explain:	O Yes	O No	O Questionable
1.3.2.6	List the inlet and outlet thread size(s) for the test cocks. Inlet thread size: Outlet thread size:		inches (inches (mm)





	1.3.2.7	State the manufacturer, size and model number of all shut-off valves tested values that shut-off: #1 Shut-off: #2 Shut-off:		
		By-Pass Line Shut-off valves:		
		Provide the UL or FM Listing number, or other approval for use in fire protect	ion systems	3:
	1.3.2.8	Was the assembly equipped with an air gap device? If yes, did it comply with ASME A112.1.3?	O Yes O Yes	O No O No
	1.3.3	Was the by-pass line equipped with a water meter or alarm signaling device? O Yes O No		stionable
		If questionable, explain:		
		Is the by-pass a listed product to the ASSE 1013 Standard?	Oyes	O No
		State the manufacturer's size and model numbers of all meters used:		
SEC1	ΓΙΟΝ ΙΙ Test Spec	zimens		
0	2.1	State the quantity of units provided for the evaluation of the orientation requ	ested:	
	2.2	How many units were utilized during the laboratory evaluation?		
	2.3	Drawings Were assembly drawings, installation drawings and other technical data whice able a testing agency to determine compliance with this standard submitted to the standard submitted submitted to the standard submitted submitt		
		Were these drawings reviewed by the laboratory?	O Yes	O No
		Alternate Orientation:		
		Has an alternate orientation, other than that marked on page 1 of this laborare report form been requested?	tory evaluat O Yes	ion O No
		If yes, were the required additional samples submitted per Section 2.1? NOTE: Separate, complete laboratory evaluation report forms must be submitternate orientation. The correct number of devices specified in the standard forientation must be submitted to the testing facility for evaluation to this standard.	or each inte	
	2.5	Manifold Device	_	_
		Is this a manifold assembly type backflow preventer? If yes, were the individual devices that constitute the manifold tested to each standard in their intended orientation based on the pipe size for each individue Yes No	al device?	O No the stionable
		If questionable, explain:		suoriable





SECT	ION III					
3.0		ce Requirements and Compliance Testing				
	3.1	Independence of Components				
			Drawing			
) Physical) Other	cyclin	g of com	oonents
		In Compliance?		 In	O Ques	tionable
		If questionable, explain:				
	3.2	Hydrostatic Test of Complete Assembly				
		The assembly was pressurized to:		psi	(kPa
		The test period was for: minutes				
		Were there any leaks or indications of damage to the assembly	? O Yes(O No	O Ques	tionable
		If questionable, explain:				
	3.3	Seat Leakage Test for Shut-Off Valves				
		What was the pressure applied to the inlet side of the #1 shut-o	off valve?	nsi	(kPa)
		How long was the pressure held? minutes		рог		
		What was the pressure applied to the outlet side of the #1 shut	t-off valve	?		
					(kPa)
		How long was the pressure held? minutes				
		Was the sealing mechanism different between the #1 shut-off v	valve and t	he #2	shut-off	valve?
		3			Yes	O No
		If yes:				
		What was the pressure applied to the inlet side of the #2 shut-	off valve?	nci	(kPa)
		How long was the pressure held? minutes		psi		KFa
		The vierng was the pressure held.				
		What was the pressure applied to the outlet side of the #2 shut	t-off valve	?		
		Llauriana voca the masseum held?		psi		kPa
		How long was the pressure held? minutes) v	\bigcirc N
		Was there any leakage from the shut-off valve(s)?) Yes	O No
	3.4	Hydrostatic Backpressure Test of Bypass Check (For RPDA-II or				
		(for assemblies with a bypass check around the 2nd check only	/)			
		The bypass check was pressurized to:		psi	·	kPa
		The test period was for minutes				
		Were there any leaks or indications of damage to the bypass ch			O -	
					O Ques	tionable
		If questionable, explain:				
	3.5	Hydrostatic Backpressure Test of Checks				
				psi		kPa
		How long was the pressure held? minutes				\circ
		Was there any leakage from the relief valve?) Yes	O No
		What was the pressure applied through test cock #3?		psi	(kPa
		How long was the pressure held? minutes		_	_	
		Was there any leakage at the inlet or the #2 test cock?		() Yes	O No





3.6	Was the a	ssembly insta	at Rated Flow lled per Figure	1?		O Yes	О No
	What was	the supply pr	ter flow for the	or this test?	GPM		L/s) kPa)
	What pres	sure loss thro	ugh the piping	ı system (if any) v	/as deducted? psi	(kPa)
			loss observed				
	GPM	L/s	psi	(kPa)			
	05.0	0.32					
	10.0	0.63					
	15.0	0.95					
	20.0	1.26					
	25.0	1.58					
	30.0	1.89					
	35.0	2.21					
	40.0	2.52					
	45.0	2.84					
	50.0	3.15					
	200% of I What was	Rated Flow Rated Flow the maximum nd descending	•	s observed at flow	gsi psi s from (0) GPM to rat psi	ed flow (b	kPa) kPa) oth as- kPa)
	Was there	any discharge	e from the reli	ef valve during the	e flow test?	O Yes	O No
					to a flow of 50.0 GPN highest value at any p		
	Was there	any damage	or permanent	deformation of the	e internal components	of the ass	sembly?
	Was the a	ssembly on te	st in complete	compliance with	the criteria of Section	3.6? O Yes	O No
3.7	When test	ow Detection valve #4 was test valve #4	•	the flow regulated	, record the flow on t	he flow m	
		asuring tank u ord the flow:	sed?		GPM	O Yes	
		iPM (L/s) did t ne bypass line	_	the flow meter/co	ollection tank exceed t GPM	_	on the L/s)





	Did the wa	ter meter or	alarm device in	dicate flow at			L/s)?	.
	If question	able, explain	:			O No	O Ques	stionable
3.8	Relief Valve Was the as gauge bety	e Opening To ssembly insta veen test co		1 with a bypas	s line with a n		e and diffe O Yes	rential O No
	The test sy	vstem was p	ressurized to			psi	(kPa)
	did the firs	t drop of wa	was opened to ter come out of as returned to a	the relief valv	e?	psi	(kPa)
	flowed thro	ough the ass	embly, what wa	as the different	ial pressure ac	cross the fi psi		
	<u> </u>		ord the above o		g supply press 7	sures of:		
	psi 20	(kPa)	psi	kPa	-			
	30	137.9			-			
	40	275.8			-			
	50	344.8			-			
	60	413.7			-			
	70	482.7			-			
	80	551.6			-			
	90	620.6			-			
	100	689.5			-			
	110	758.5			-			
	120	827.4			-			
	130	896.4			-			
	140	965.3			-			
	150	1034.3			-			
	160	11034.3			-			
	170	1172.2			-			
	180	1241.2			-			
	190	1310.1			-			
	200	1379.1			-			
	200	1373.1			J			
	At the time	e of the oper	ning of the relief	valve, were a	II readings 2.0	psi (13.8	kPa) or gre O Yes	ater?
	Did the reli	ef valve clos	se drip tight at e	ach pressure s	egment?		O Yes	O No
	Was the as	ssembly on t	est in complete	compliance wi	th the criteria	of Section	3.8?O Ye	s O No
3.9			al Pressure Relie			psi	(kPa)





	Amount o	_	om the relief #2	•	ning and closing to		
3.10		tness of First		ntial across the	first check for the	e following line pre	ssures:
	psi	(kPa)	psi	kPa	7		
	20	137.9			7		
	30	206.9					
	40	275.8					
	50	344.8					
	60	413.7		_			
	70	482.7					
	80	551.6		_			
	90	620.6		_			
	100	689.5		_			
	110	758.5		_			
	120	827.4		_			
	130	896.4		_			
	140	965.3		_			
	150	1034.3		_			
	160	1103.2		_			
	170	1172.2		_			
	180	1241.2					
	190	1310.1		_			
	200	1379.1					
3.11	tial betwe determine Drip Tight	een the inlet lined in Section 3	ne pressure al 3.8? econd Check	nd the zone pres	ssure required to c	an the pressure ditapen the relief valv O Yesinches (e as O No
	Indicate t	he initial heigh	nt of water in	the sight glass a	at test cock #4: _	inches (mm)
		s the final heig		minutes. in the water lev		sight glasses at tes inches (
3.12				RPDA-II Assem in the first sight	blies) glass in the bypa		
	What was	s the initial he	ight of water	in the second si	ght glass in the b	inches (ypass line? inches (
	What was	s the final heig	ght difference	between the sig	ght glasses?	inches (mm)
	The test p	period was for	:	minutes.			





	In Compliance? If questionable, explain:	O Yes	○ No	O Que:	stionable ———
3.13	Relief Valve Discharge Test with Atmospheric Supply What was the rated flow (per table 2) through the rel		he size of th	ne device	on test?
	at mad the nation here (per table 2, through the re-		GPM		
	What was the supply pressure?		psi	(kPa)
	What was the intermediate chamber pressure?		psi	(kPa)
	What was the recorded discharge flow rate from the	relief valve?_	GPM	(L/s)
3.14	Relief Valve Discharge With Positive Supply Pressure What was the rated flow (per table 2) through the rel		he size of th		
	What was the supply pressure?		psi	(kPa)
	What was the intermediate chamber pressure?		psi	(kPa)
	What was the recorded discharge flow rate from the	relief valve?_	GPM	(L/s)
3.15	Backpressure/Backsiphonage Test Attach test results from USC Protocol for backpressu Was there any indication of damage or permanent de Was there any evidence of water being drawn into th	formation to t	he assembly (ansparent c	y? O Yes	O No tube? O No
3.16	Relief Valve vs. Supply Pressure Fluctuation Test With the assembly in a static condition and the inlet p to 115 psi (792.9 kPa) record the leakage from the re				
	When the supply pressure reduced from 115.0 psi (7 the leakage from the relief valve:		100 psi (689 GPM		
	Was there any discharge from the relief valve?		(O Yes	O No
3.17	Air Gap Device Backsiphonage Test (Only applies to Assemblies supplied with an Air Gap Measure and record the quantity of water that is carr discharge port(s):			into the r	
	Was there any evidence of water in the air gap device discharge port(s)?	e carrying the		ne relief va O Yes	_
3.18	Deterioration at Manufacturer's Extremes of Tempera Temperature range as noted by the manufacturer: °F to °F (ture and Pres	_	5	
	Maximum rated pressure as noted by the manufactur	er:	psi	(kPa)





	Water at: was circul at a flow	_	the assembly at:			_ °F (_psi (BPM (°C) kPa) L/s)
	for:			hours			
		at temperat PDA-II Assen		shall be reto	ested to Sections 3.	8, 3.10 a	nd 3.11, and
Retest Sed	Was the a	ween test co	alled per Figure 1 ck #2 and #3?		ss line with a needle	valve and O Ye	
	The test s	system was p	ressurized to			_psi (kPa)
					asing differential pres e?		
	flowed th	rough the ass	sembly, what was	the different	n after a small amou tial pressure across t ———————————————————————————————————	he first ch _psi (eck?
	psi	(kPa)	psi	kPa			
	20	137.9	poi	Ki u	-		
	30	206.9			1		
	40	275.8			1		
	50	344.8			1		
	60	413.7			1		
	70	482.7			1		
	80	551.6			1		
	90	620.6			1		
	100	689.5			1		
	110	758.5			1		
	120	827.4			1		
	130	896.4]		
	140	965.3]		
	150	1034.3]		
	160	1103.2]		
	170	1172.2]		
	180	1241.2]		
	190	1310.1					
	200	1379.1]		
					– II readings 2.0 psi (1		. 5





Was the assembly on test in complete compliance with the criteria of Section 3.8?

O No

Retest Section 3.10

What was the static pressure differential across the first check for the following line pressures:

psi	(kPa)	psi	kPa
20	137.9		
30	206.9		
40	275.8		
50	344.8		
60	413.7		
70	482.7		
80	551.6		
90	620.6		
100	689.5		
110	758.5		
120	827.4		
130	896.4		
140	965.3		
150	1034.3		
160	1103.2		
170	1172.2		
180	1241.2		
190	1310.1		
200	1379.1		

tial between the inlet line pressure and the zone pressure required to open the relief valve as O Yes determined in Section 3.8? Retest Section 3.11 Indicate the initial height of water in the sight glass at test cock #3: inches (mm) Indicate the initial height of water in the sight glass at test cock #4: inches (mm) The test period was for: minutes. What was the final height difference in the water levels between the sight glasses at test cocks inches (mm) #3 and #4? Retest Section 3.12 What was the initial height of water in the first sight glass in the bypass line? inches (mm) What was the initial height of water in the second sight glass in the bypass line? inches (mm) What was the final height difference between the sight glasses?_____ inches (_____ mm)

Were these pressure differentials at least 3.0 psi (20.7 kPa) greater than the pressure differen-

The test period was for: minutes.





	In Complia	ance? nable, explaii	າ:		O Yes	○ No	O Que	stionable
3.18 con		npletion of th	e 100 hours ar	nd the retesting of °C) was circulat	Sections 3.8	3, 3.10, 3.1 the assemb	1 & 3.12 lv.	water at:
	Once the 3.2 and 3	assembly rea		temperature, the a				tions
Retest Se	ction 3.2							
		nbly was pre				psi	(kPa)
	Were ther	e any leaks o	or indications o	minutes of damage to the a		Yes ON	o O Que	stionable
Retest Se	ction 3.5							
		•		igh test cock #4?		psi	(kPa)
			ssure held? from the relie	minutes ef valve?			O Yes	O No
	What was	the pressur	e applied throu	igh test cock #3?		psi	(kPa)
				minutes r the #2 test cock?	?		O Yes	O No
3.18 conf	Upon com water at: was circu	lated through	n the assembly	nt water temperat for: to Sections 3.8, 3	hours	°F nd 3.12:	(°C)
Retest Se	ction 3.8							
		ween test co	alled per Figur ock #2 and #3	re 1 with a bypass ?	line with a		e and diffe	erential O No
		system was p	oressured to			psi	(kPa)
				to show a decreas of the relief valve	•	ial pressure psi		•
				a static condition was the differentia		cross the fi		?
	Reneat th	e test and re	cord the above	e data when using	sunnly nres	sures of		
	psi	(kPa)	psi	kPa	Supply pics	34103 01.		
	20	137.9						
	30	206.9						
	40	275.8						
	50	344.8						
	60	413.7						





70	482.7	
80	551.6	
90	620.6	
100	689.5	
110	758.5	
120	827.4	
130	896.4	
140	965.3	
150	1034.3	
160	1103.2	
170	1172.2	
180	1241.2	
190	1310.1	
200	1379.1	

At the time of the opening of the relief valve, were all readings 2.0 psi (13.8 kPa) or greater?

O Yes

No

Did the relief valve close drip tight at each pressure segment?

Value of Section 3.8?

O Yes

O No

Retest Section 3.10

What was the static pressure differential across the first check for the following line pressures:

psi	(kPa)	psi	kPa
20	137.9		
30	206.9		
40	275.8		
50	344.8		
60	413.7		
70	482.7		
80	551.6		
90	620.6		
100	689.5		
110	758.5		
120	827.4		
130	896.4		
140	965.3		
150	1034.3		
160	1103.2		
170	1172.2		
180	1241.2		
190	1310.1		
200	1379.1		





Were these pressure differentials at least 3.0 psi (20.7 kPa) greater than the pressure differential between the inlet line pressure and the zone pressure required to open the relief valve as determined in Section 3.8? Retest Section 3.11 Indicate the initial height of water in the sight glass at test cock #3: inches (mm) Indicate the initial height of water in the sight glass at test cock #4: inches (mm) The test period was for: minutes. What was the final height difference in the water levels between the sight glasses at test cocks #3 and #4? inches (mm) Retest Section 3.12 What was the initial height of water in the first sight glass in the bypass line? inches (mm) What was the initial height of water in the second sight glass in the bypass line? What was the final height difference between the sight glasses?_____ inches (_____ mm) The test period was for: minutes. O Yes O No O Questionable In Compliance? If questionable, explain: 3.18 continued Was the assembly on test in complete compliance with the criteria of Section 3.18? O No 3.19 Cycle Test (a) Flow water at 25% of the rated flow (see Table 1 for size and rated flow) What was the flow rate? L/s) psi (kPa) What was the supply pressure? The test period was for seconds (b) What was the static pressure? kPa) seconds The test period was for (c) What was the backpressure (while at static pressure above)? psi (The test period was for seconds (d) What was the supply pressure? kPa) The test period was for (e) The supply pressure was fluctuated from 175.0 psi (1206.7 kPa) down to 100 psi (689.5 kPa) for (f) Steps (a) through (e) were repeated times. Retest assembly to Sections 3.8, 3.10, 3.11 and 3.12:





Retest Section 3.8

Was the assembly installed per Figure 1 with a bypass line			
gauge between test cock #2 and #3?	O Yes	O No	
If no, explain:			
The test system was pressured to	psi (kPa)	
When the needle valve was opened to show a decreasing did the first drop of water come out of the relief valve?	•	pressure kPa)	
When the assembly was returned to a static condition aftor flowed through the assembly, what was the differential po			
	psi \	Ki u/	

Repeat the test and record the above data when using supply pressures of:

psi	(kPa)	psi	kPa
20	137.9		
30	206.9		
40	275.8		
50	344.8		
60	413.7		
70	482.7		
80	551.6		
90	620.6		
100	689.5		
110	758.5		
120	827.4		
130	896.4		
140	965.3		
150	1034.3		
160	1103.2		
170	1172.2		
180	1241.2		
190	1310.1		
200	1379.1		

At the time of the opening of the relief valve, were all readings 2.0 psi (13.8)	kPa) or great	ter?
	O Yes	O No
Did the relief valve close drip tight at each pressure segment?	O Yes	O No
Was the assembly on test in complete compliance with the criteria of Section		
	O Yes	O No

Retest Section 3.10

What was the static pressure differential across the first check for the following line pressures:

psi	(kPa)	psi	kPa
20	137.9		
30	206.9		
40	275.8		





O No

O Yes

50	344.8	
60	413.7	
70	482.7	
80	551.6	
90	620.6	
100	689.5	
110	758.5	
120	827.4	
130	896.4	
140	965.3	
150	1034.3	
160	1103.2	
170	1172.2	
180	1241.2	
190	1310.1	
200	1379.1	

	tial between the inlet line pressure and the zone pressure required to	pen the	relief valv	
	determined in Section 3.8?		O Yes	O No
Retest Sec	tion 3.11			
	Indicate the initial height of water in the sight glass at test cock #3: _	ir	nches (mm)
	Indicate the initial height of water in the sight glass at test cock #4:	ir	nches (mm)
	The test period was for: minutes. What was the final height difference in the water levels between the	siaht ala	sses at te	st cocks
	#3 and #4?		nches (
Retest Sec	tion 3.12 What was the initial height of water in the first sight glass in the bypa	ass line?		
			nches (mm)
	What was the initial height of water in the second sight glass in the b	ypass lir	ne?	
		ir	nches (mm)
	What was the final height difference between the sight glasses?	ir	nches (mm)
	The test period was for: minutes.			
	In Compliance?	O No	O Que	stionable
	If questionable, explain:			
3.19 conti				
	(g) With the relief valve open to atmosphere, a backpressure of: was applied for	minutes	psi	(kPa)
	Was there any dripping from the vent?		O Yes	O No
	(h) With the relief valve open to atmosphere, a backpressure of:		psi	(kPa)
		minutes	-	

Was there any dripping from the vent?



Retest Section 3.6



(i) Retest assembly to Sections 3.6:

	Was the a If no, expl	•	alled per Figure	1?			O Yes	O No
			ater flow for the ressure used fo	•		GPM _psi	(L/s) kPa)
	What pres	sure loss thre	ough the piping	system (if any)	was deducted?	psi	(kPa)
	What was	the pressure	loss observed	at flows of:				
	GPM	L/s	psi	(kPa)				
	05.0	0.32						
	10.0	0.63						
	15.0	0.95]			
	20.0	1.26						
	25.0	1.58						
	30.0	1.89						
	35.0	2.21]			
	40.0	2.52						
	45.0	2.84						
	50.0	3.15]			
	150% of F 200% of F What was	the pressure Rated Flow Rated Flow the maximum and descendin	m pressure loss	observed at flo	ws from (0) GPM	psi psi to rate psi	ed flow (b	kPa) kPa) oth as- kPa)
	Was there	any discharç	ge from the relie	ef valve during t	he flow test?		O Yes	O No
	a maximur Was there	n total down any damage	ward deviation or permanent o	of 10% from the	p to a flow of 50.0 ne highest value at the internal composite th the criteria of Se	any p nents ection	oint?O Y of the ass O Yes 3.6?	es O No sembly? O No
3.19 conti							O Yes	O No
		ISC FCCC & ach the test r	-	est protocol use	ed for the cycle tes	t?	O Yes	O No
	Was the a	ssembly on t	est in complete	compliance wit	th the criteria of Se		3.19? O Yes	O No





	3.20	Body Strength Test What was the pressure used for this test? The pressure was held for	psi _ minutes	(kPa)
		Was there any structural failure that would cause leakage? Yes If questionable, explain:	O No	O Questic	nable
	3.21	Seat Adhesion Test Did the adhesion test meet all of the requirements of Section 18 of O Yes If questionable, explain:	the UL Sta	indard 312? O Questic	nable
		Attach those test results.			
	3.22	High Velocity Test What was the flow velocity used for this test? This velocity was maintained for	ft/sec _ minutes	(n	n/sec)
		Was there any damage or permanent deformation to any of the inte assembly?		O Yes (O No
		Did any portion of the assembly become dislodged or restrict flow d			? O No
		Was the assembly (or assemblies) used for testing of Sections 3.1 t compliance with the criteria of this standard?	hrough 3.2	22 in complet	
SECT 4.0	ON IV Detailed Re	esults Materials			
		Did the manufacturer provide evidence that the materials make-up of successfully in similar applications for at least one (1) year?		\sim	used O No
	4.1.1	Materials in Contact with Water Did any solder and fluxes in contact with the potable water supply of Yes	exceed 0.2 O No	% lead conte	
		If questionable, explain:			
	4.1.2	Elastomers and Polymers Did all of the elastomers and polymers in contact with the water co of the U.S. Code of Federal Regulations (CFR) Title 21, Section 177	'?	the requirem	
		If questionable, explain:			
	4.1.3	Did all ferrous cast parts conform to ASTM A126 for gray iron or Affor ductile iron? O Yes If questionable, explain:	O No	O Questio	
	4.1.4	Were all ferrous cast parts in contact with the water flowing throug against corrosion by epoxy coating or other equivalent methods? C If questionable, explain:	Yes O No	o O Questic	nable
	4.1.5	Were all stainless steel components in contact with water of Series		O Yes O	O No
		If questionable, explain:			





4.1.6	Were all non-ferrous wetted parts of a corrosion resistance of at least equal to an alloy of 79% copper? O Yes O No O Questionable of Test of the company of the copper
4.1.7	Were all internal non-cast parts of a corrosion resistance of at least equal to an alloy of 79% copper? O Yes O No O Questionable of the company of the company of the copper of the
4.1.8	Were all springs in contact with the water flowing through the assembly of a corrosion resistance of at least equal to stainless steel series 300? O Yes O No O Questionable If questionable, explain:
4.1.9	Were all flexible non-metallic parts of a design to withstand all the criteria of this standard without change in their physical characteristics? O Yes No O Questionable fly questionable, explain:
4.1.10	Were check or relief valve seats of a metal to metal seating? O Yes O No O Questionable If questionable, explain:
	Identify seating material: #1 Check: #2 Check: Relief Valve:
4.1.12	Were the seat rings of a corrosion resistance of at least equal to an alloy of 79% copper? O Yes O No O Questionable
4.1.13	Were the test cocks of a corrosion resistance of at least equal to an alloy of 79% copper. O Yes O No O Questionable If questionable, explain:
4.1.14	Do all pipe flanges conform to ASME B16.24 for bronze flanges and ASTM A126 for cast iron flanges? O Yes O No O Questionable flanges and ASTM A126 for cast iron flanges?
4.1.15	Do all pipe threads conform to ASME B1.20.1 for taper pipe threads and ASME B1.20.3 for dryseal? O Yes O No O Questionable If questionable, explain:
4.1.16	Do inlet and outlet grooved connections comply with AWWA C606? O Yes O Questionable
4.2 4.2.1	Marking Instructions Marking of Devices Identify and list the markings found on the test assembly: (a) Manufacturer's name or trademark: (b) Type (RPDA or RPDA-II): (c) Model number of the assembly: (d) Model number of the bypass check or bypass assembly: (e) Maximum rated pressure: (f) Maximum rated temperature:





	(g) Serial number consistent with the manufacturer's standard practice:(h) Nominal valve size:	
	(i) The direction of water flow:(j) Each shut-off valve shall be marked with the manufacturer's name or trademark and mode	
	number:	JI
4.2.2	Was marking of the RPDA Bypass Assembly per ASSE 1013? O Yes	No
4.2.3	Identify and list the markings found on the RPDAII Bypass check: (a) Name of manufacturer or trademark: (b) Model number of the bypass check: (c) The direction of water flow: (d) Each shut-off valve shall be marked with the manufacturer's name or trademark and mode number:	 el
4.2.4	Identify and list the markings found on the manifold assemblies: (a) Manufacturer's name or trademark: (b) Type (RPDA or RPDA-II): (c) Nominal valve size:	
4.2.5	Describe how these markings were made:	
4.3 4.3.1	Installation and Maintenance Instructions Were instructions for installation submitted with the device? O Yes O No O Questionally Questionable, explain:	ble
4.3.2	Did the installation instructions indicate the tested and approved installation orientation of the assembly? O Yes No O Questional questionable, explain:	
4.3.3	Was the assembly capable of being maintained or repaired while in-line? O Yes O Questionable	No
	If questionable, explain:	
4.4 4.4	Maintenance Were maintenance instructions furnished? O Yes No Questional	ble
4.5 4.4.4	Field Testing Were field testing instructions furnished? O Yes O No O Questional f questionable, explain:	ble



ESTING AGENCY:	
ADDRESS:	
PHONE:	FAX:
TEST ENGINEERS:	
We Certify that the evaluations are based on our best judge accurate record of the performance of the device on test.	ments and that the test data recorded is an
SIGNATURE OF THE OFFICIAL OF THE AGENCY:	
TITLE OF THE OFFICIAL:	DATE:
SIGNATURE AND SEAL OF THE REGISTERED PROFESSIONAL ENGINEER SUPERVISING THE LABORATORY EVALUATION:	
SIGNATURE:	
	PE SEAL

*To insert images into document (PE seal and signatures)

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COMMENTS: