American Society of Sanitary Engineering Seal (Certification) Program Laboratory Evaluation Report for: Dual Check Type Backflow Preventer Tested under ASSE Standard 1024 • Revised: February, 2004 Laboratory File #		
Manufacturer	-	
 General information and instructions for the testing engineer: Within the text there may be items which are only advisory to conditions which experience indicates could be troublesome. It is not for evaluation related to acceptance of the product. There may be other 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 item involved. Documentation of material compliance must be furnished by the manufacturer. He 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. 		

Product Name		
Model Number		Size(s)
Date Submitted for Review	Date Review Complete	
Were the test units production models?	Yes	No
or prototypes?	Yes	□ No

Section I

1.0	Genera	al
	1.1	Application.
		is the purpose of the device, as described by the manufacturer, as stated in this section?
		If questionable, explain:
	1.2	Scope
		1.2.1 Description. Does the device conform to the product described in the standard?
		□ No
		If questionable, explain:
		1.2.2 Size. Did the product comply with the sizes stated?
		1.2.3 Working Pressure. The maximum working pressure as stated by the
		manufacturer psi (kPa)
		1.2.4 Temperature Range.
		(a) Cold water service range as stated by the manufacturer.
		°F to°F (°C to°C).
		(b) Hot water service range as stated by the manufacturer.
		°F to °F (°C to°C).

		In compliance?		Yes No
		If questionable, explain:		Questionable
Sectio	on II			
2.0	Test S	pecimens		
	2.1	State the quantity of units provided for the evaluation.		
	2.2	How many units were utilized during the laboratory evaluation? _ If more than one (1) unit was used, explain:		
	2.3	Drawings. Were assembly drawings, installation drawings and o are needed to enable a testing agency to determine compli- submitted with the valve?	ther iance	technical data which with this standard
				☐ Yes ☐ No
		Were these drawings reviewed in the laboratory?		☐ Yes ☐ No
Section	on III			
3.0	Perform	nance Requirements and Compliance Testing		
	3.1	Connection Torque		
		What was the pressure used during the torque test? ps	i (kPa)
		What was the torque applied? Lbs-inch (N•m)		
		The torque was applied forminutes. In compliance?		Yes No Questionable
		If questionable, explain:		
	3.2	Hydrostatic Test of Complete Device		
		What was the pressure used for this test?psi (k	Pa)	
		The test period was forminutes.		
		Were there any external leaks or other damage?		☐ Yes ☐ No

3.3 Hydrostatic Leakage Tests of Check Valves

	What was the pressure applied to the downstream side of th individually? psi (kPa)	e upstream check valve
	What was the pressure on the upstream side? psi (kPa)
	What was the pressure applied to the downstream side of the do	wnstream check valve?
	psi (kPa)	
	What was the pressure on the upstream side? psi (kPa)
	The test period on each check valve was for minutes.	
	Were there any leaks or rise in the water level of the sight glass?	☐ Yes ☐ No
3.4	Flow and Pressure Loss	
	What was the rated flow used? GPM (L/s)	
	What was the maximum pressure loss observed up to and includ	ling the rated flow?
	psi (kPa) In compliance?	Yes No Questionable
	If questionable, explain:	
3.5	Drip Tightness of Check Valves	
	3.5.2 Drip Tightness of Inlet Check Valve	
	What was the beginning level of the water in the sight glass?	inches
	(mm)	
	The test period was for minutes.	
	What was the final level of the water in the sight glass?	inches
	(mm) In compliance?	Yes No
	If questionable, explain:	
	3.5.3 Drip Tightness of Outlet Check Valve	

What was the beginning level of the water in the sight glass? $_$	inches
(mm)	
The test period was for minutes.	
What was the final level of the water in the sight glass?	_ inches
(mm)	
In compliance?	🗌 Yes
	🗌 No
	Questionable
If questionable, explain:	

3.6 Deterioration at Extremes of Manufacturer's Temperature and Pressure

3.6.2.1 Cold Water Devices.		
What was the temperature of the test? °F (°C)	
The test period was for hours.		
What was the supply pressure? psi (kPa) In compliance?		Yes No Questionable
3.6.2.2 Hot Water Devices.		
What was the temperature of the test? °F (°C)	
The test period was for hours.		
What was the supply pressure? psi (kPa) In compliance?		Yes No Questionable
Check Valve Operation	_	
In compliance?		Yes No Questionable
····		

3.7

3.8 Dual Check Valve Integrity at Maximum Intermittent Rated Flow

What is the pressure used for this test? psi (kPa)	
The test period was for minutes.	
Were there any external leaks or other indications of damage?	□ Yes □ No
Indicate the flow rate:GPM (L/min)	
After this test was completed, was the device retested to Section 3.5?	🗌 Yes
In compliance?	

Section IV

4.0 Detailed Requirements

4.1 Materials

Did the	e solder and fluxes used contain more than 0.2% lead? ny metal alloys contain over 8% of lead?	☐ Yes☐ No☐ Yes☐ No
4.1.1	Were non-ferrous cast parts in compliance?	☐ Yes ☐ No
4.1.2	Were bodies and non-cast parts in compliance?	☐ Yes ☐ No
4.1.3	Were springs in compliance?	☐ Yes ☐ No
4.1.4	Were flexible and non-metallic parts in compliance?	☐ Yes ☐ No
4.1.5	Were the metal to metal seating in compliance?	☐ Yes ☐ No
4.1.6	Are seat rings in compliance?	☐ Yes ☐ No
4.1.7	Are end connections in compliance?	☐ Yes □ No
	4.1.7.1 Are tapered threads (if applicable) in compliance?	Yes □No
	4.1.7.2 Are dryseal threads (if applicable) in compliance?	☐ Yes ☐ No

	4.1.7.3 Are flange connections (if applicable) in compliance?			☐ Yes
	4.1.7.4 Other connections (if applicable)			L NO
	4.1.7.4 Other connections (ir applicable)			
	Do these connections comply with an industry approve	stand	dard?	☐ Yes ☐ No
4.2	Reparability	_		
	(a) Are the internal parts of the device accessible?		Yes	
			No	
			Ques	tionable
	If questionable, explain:			
	(b) Are all replaceable parts of the same size and model interce part?	hange	eable w	rith the original
			Yes	
			No	
			Ques	tionable
	If questionable, explain:			
	a			
	Are the markings visible in the installed position?			☐ Yes
	4.3.1.2 How were the markings applied?			
4.3.2	Installation Instructions			
	4.3.2.1 Were complete instructions for installation and drawing are required for the correction installation packaged with the de	s or s vice?	chema	tics, which Yes No
	4.3.2.2 Were field repair instructions submitted?		Yes No	
	If a contract here whet		Ques	tionable
	If questionable, explain:			

4.3

TESTING AGENCY	
ADDRESS	
PHONE: FAX:	
TEST ENGINEER(S)	
We certify that the evaluations are based on our best judgments and accurate record of the performance of the device on test.	I 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	Seal
	Seal