

**American Society of Sanitary Engineering
Seal (Certification) Program**

**Laboratory Evaluation Report For:
Backflow Prevention Assembly Field Test Kits**

Tested under ASSE Standard 1064 • Revised: April, 2006
Laboratory File Number: _____

Manufacturer _____

Model No. _____

Address _____

Serial No. _____

Other Identification Markings _____

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 Control Board. The Seal Control 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.

In compliance? Yes No

Section II

2.0 Test Specimens

- 2.1 How many BFTK's of each model were submitted? _____
- 2.2 How many BFTK's of each model were utilized for testing? _____
- 2.3 Was product literature and other data submitted for the BFTK's? Yes No
Were these items reviewed and utilized for the tests? Yes No
- 2.4 Failure of one device shall result in a rejection of the device.

Section III

3.0 Performance Requirements And Compliance Testing

NOTE: BFTK's shall be tested as a complete assembly.

3.1 Conditioning Test

Was the BFTK exposed to 150.0°F +0°/-5.0°F (65.5°C +0°C/-2.8°C) and 33.0°F - 0°F/+5.0°F (0.6°C +2.8°C/-0°C) for thirty minutes at each temperature prior to testing? Yes No

3.2 Accuracy Test

3.2.4 Procedure

With the inlet connection to the high side of the BFTK at various pressures and the outlet connection of the low side of the BFTK at atmospheric, record BFTK reading:

- (3) At 14.0 psi (96.5 kPa) _____ psid (_____ kPa)
- (4) At 7.0 psi (48.3 kPa): _____ psid (_____ kPa)
- (5) At 5.0 psi (34.5 kPa): _____ psid (_____ kPa)
- (6) At 2.0 psi (13.8 kPa): _____ psid (_____ kPa)
- (7) At 1.0 psi (6.9 kPa): _____ psid (_____ kPa)

At 0.0 psi (0.0 kPa), does the BFTK indicate a pressure reading? Yes No

- 3.2.5 Did any of the recorded readings fall outside the accuracy tolerances specified in Table I? Yes No
Was the BFTK in full compliance with Section 3.2.1 thru 3.2.5? Yes No

- 3.2.6 Additional Accuracy Test for Digital BFTK that use two pressure transducers to indicate pressure differential.

3.2.6.4 Procedure

With both the high and low sides of the BFTK at a nominal working pressure of 200.0 psi ±5.0 psi (13790 kPa ±34.5 kPa), record the BFTK reading

- (5) At 14.0 psi (96.5 kPa): _____ psid (_____ kPa)
- (6) At 7.0 psi (48.3 kPa): _____ psid (_____ kPa)
- (7) At 5.0 psi (34.5 kPa): _____ psid (_____ kPa)
- (8) At 2.0 psi (13.8 kPa): _____ psid (_____ kPa)
- (9) At 1.0 psi (6.9 kPa): _____ psid (_____ kPa)
- (10) At 0.0 psi (0.0 kPa): _____ psid (_____ kPa)

3.2.6.5 Did any of the recorded readings fall outside the accuracy tolerances specified in Table I?

Yes No

Was the BFTK in full compliance with sections 3.2.6.1 thru 3.2.6.5? Yes No

3.3 Hydrostatic Shell Test

Which option of testing was utilized? _____

What was the pressure that was applied to the inlet hose(s)? _____ psi (_____ kPa)

The test period was for _____ minutes.

Were there any leaks or indication of damage to the device or any of the components?

Yes No

Was the BFTK in compliance with Section 3.5? Yes No

3.4 Pressure Shock Test

3.4.2.1 High Side Pressure Shock Test

What was the pressure applied to the high side of the BFTK? _____ psi (_____ kPa)

What was the pressure in the accumulator? _____ psi (_____ kPa)

What were the number of cycles used? _____ cycles.

During the cycling period, did the pressure rise rate remain between 3000 and 4000 psi/sec (20,685.0 and 27, 580.0 kPa/sec)? Yes No

3.4.2.2 Low Side Pressure Shock Test

What was the pressure applied to the low side of the BFTK? _____ psi (_____ kPa)

What was the pressure in the accumulator? _____ psi (_____ kPa)

What were the number of cycles used? _____ cycles.

During the cycling period, did the pressure rise rate remain between 3000 and 4000 psi/sec (20,685.0 and 27, 580.0 kPa/sec)? Yes No

Was the BFTK in compliance with both the high side and low side pressure shock tests?
 Yes No

3.4.2.3 Repeat the Accuracy Test of Section 3.2.

Was the BFTK in compliance with Section 3.2 following the pressure shock tests of Section 3.4? Yes No

Did the pressure differential gauges maintain the accuracy shown in Section 1.2.2.1 after the pressure shock tests? Yes No

Section IV

4.0 Detailed Requirements

4.2 Materials

4.1.1 Toxic Material

Did any solders or fluxes or metal alloys in contact with the potable water supply exceed 0.2% or 8% Lead content respectively? Yes No

4.1.2 Wetted Test Kit Materials

List materials of construction and the conforming standard:

- Bronze: _____
- Stainless Steel: _____
- Non-cast bronze: _____
- Other: _____

4.1.3 Corrosion Resistance

Are bodies, external parts and fasteners constructed of materials having a corrosion resistance at least to non-ferrous alloys? Yes No

4.2 Markings

4.2.1 Markings Of Backflow Field Test Kits

List the markings shown on the kits:

- a) Manufacturer's name or trade mark: _____
- b) Model number: _____
- c) Serial number: _____
- d) Critical level markings: _____
- e) High and low connection's identifications: _____
- f) Maximum rated working pressure: _____ psi (_____ kPa)
- g) Maximum rated working water temperature: _____ °F (_____ °C)
- h) Usage orientation: _____

In compliance? Yes No

4.2.2 Method Of Markings

How were the markings made?

- Etched
- Cast
- Molded
- Stamped
- Engraved
- Corrosion resistant plate securely attached
- Printed on the dial plate
- Other: _____

In compliance? Yes No

4.3 Field Testing

Did the manufacturer furnish testing instructions conforming to ASSE/ANSI Series 5000 (2004)? Yes No

4.4 Manufacturers' Instructions

Were complete operating instructions included information on periodic calibration packaged with BFTK? Yes No

Were drawings or schematics furnished with these instructions? Yes No

TESTING AGENCY _____

ADDRESS _____

PHONE: _____ FAX: _____

TEST ENGINEER(S) _____

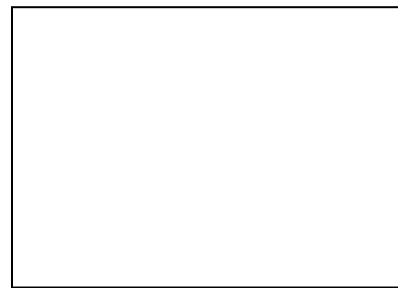
We certify that the evaluations are based on our best judgments and that the test data recorded is an accurate record of the performance of the device on test.

Signature of the official of the agency: _____

Title of the official: _____ Date: _____

Signature and seal of the Registered Professional Engineer
supervising the laboratory evaluation:

Signature



Seal