

*American Society of Sanitary Engineering*  
PRODUCT (SEAL) LISTING PROGRAM



ASSE STANDARD #1064-2006 (R2011) - REVISED: 2011  
Backflow Prevention Assembly Field Test Kits

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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): \_\_\_\_\_

DATE MODELS RECEIVED BY LABORATORY: \_\_\_\_\_ DATE TESTING BEGAN: \_\_\_\_\_

DATE TESTING WAS COMPLETED: \_\_\_\_\_

IF MODELS WERE DAMAGED DURING SHIPMENT, DESCRIBE DAMAGES: \_\_\_\_\_

PROTOTYPE OR PRODUCTION: \_\_\_\_\_

WERE ALL TESTS PERFORMED AT THE SELECTED LABORATORY?  Yes  No

If offsite, identify location and tests involved: \_\_\_\_\_

**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 I**

1.0

**General**

1.1

**Application**

Does this application apply to portable field testing kits for backflow prevention assemblies (BFTK)?

Yes  No

1.2

**Scope**

Are these analog dial type and/or digital instrumentation type BFTK?

Yes  No

1.2.1

**Description**

Are these kits portable?

Yes  No

Do these kits, as a minimum, include all necessary gauges, hoses, valves and fittings as required for field testing purposes?

Yes  No

1.2.2

**BFTK Accuracy Requirements**

1.2.2.1

**Differential Pressure Gauge Accuracy Requirements**

Do the differential pressure gauges comply with the accuracy called for in this section?

Yes  No

1.2.2.2

**Line Pressure Gauge Accuracy Requirements**

Do the pressure gauges for indicating line pressure on a BFP comply with the ASME 40.100 accuracy, grade C or better?

Yes  No

1.2.3

**Pressure Range**

Do the BFTK's comply with the full scale pressure reading and the line pressure reading of the maximum range noted in this section?

Yes  No

1.2.4

**Temperature Range**

State the water temperature range of the BFTK:

\_\_\_\_\_ °F ( \_\_\_\_\_ °C) to \_\_\_\_\_ °F ( \_\_\_\_\_ °C)

1.2.5

**Gauge Resolution**

1.2.5.1

**Differential Pressure Test Kit**

Is the test kit able to resolve 0.1 psi (0.7 kPa) or finer accuracy?

Yes  No

1.2.5.2

**Line Pressure Gauges**

Are the pressure gauges able to resolve 5.0 psi (34.5 kPa)?

Yes  No

1.2.6

**Working Pressure**

State the test kit's minimum working pressure rating as noted by the manufacturer:

\_\_\_\_\_ psi ( \_\_\_\_\_ kPa)

Is the BFTK in compliance (i.e., a minimum working pressure rating of 200.0 psi (1,379.0 kPa))?

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 Did one device fail?  Yes  No  
 NOTE: Failure of one BFTK shall result in a rejection of that model.

**SECTION III**

3.0 **Performance Requirements And Compliance Testing**  
 Was the BFTK tested as a complete assembly?  Yes  No  
 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): \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)
- (4) At 7.0 psi (48.3 kPa): \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)
- (5) At 5.0 psi (34.5 kPa): \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)
- (6) At 2.0 psi (13.8 kPa): \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)
- (7) At 1.0 psi (6.9 kPa): \_\_\_\_\_ psi ( \_\_\_\_\_ 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): \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)
- (6) At 7.0 psi (48.3 kPa): \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)
- (7) At 5.0 psi (34.5 kPa): \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)
- (8) At 2.0 psi (13.8 kPa): \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)
- (9) At 1.0 psi (6.9 kPa): \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)
- (10) At 0.0 psi (0.0 kPa): \_\_\_\_\_ psi ( \_\_\_\_\_ 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 3.3?  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? \_\_\_\_\_ psig ( \_\_\_\_\_ kPa)

What was the pressure in the accumulator? \_\_\_\_\_ psig ( \_\_\_\_\_ 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? \_\_\_\_\_ psig ( \_\_\_\_\_ kPa)

What was the pressure in the accumulator? \_\_\_\_\_ psig ( \_\_\_\_\_ 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**

**4.1**

**Materials**

**4.1.1**

**Toxic Material**

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

4.4 **Manufacturer's Instructions**  
Were complete operating instructions, including information on periodic calibration, packaged with the BFTK?  Yes  No



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TESTING AGENCY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

TEST ENGINEERS: \_\_\_\_\_

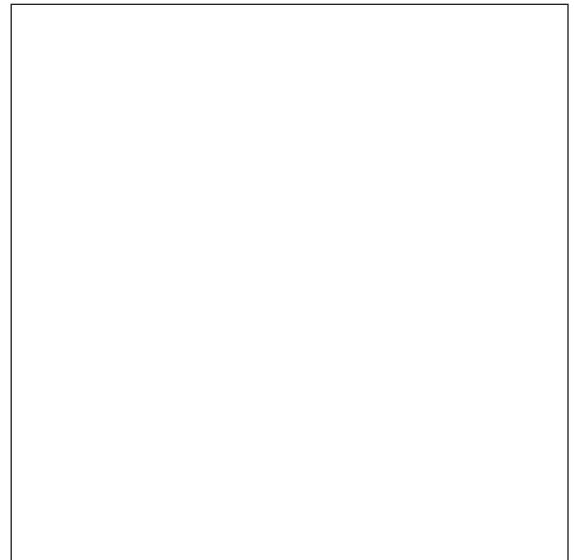
*We certify that the evaluations are based on our best judgement and that the test data recorded is an accurate record of the performance of the device on test.*

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: \_\_\_\_\_



**PE SEAL**

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

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**COMMENTS:**