

**ASSE International
Product (Seal) Listing Program**

ASSE 1062-2017

Temperature Actuated, Flow Reduction (TAFR) Valves for Individual Supply Fittings

Manufacturer: _____

Contact Person: _____ **E-mail:** _____

Address: _____

Laboratory: _____ **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 sample? _____

Were all tests performed at the selected laboratory? Yes 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

1.1 Application

Did the device comply with the application of this standard? Yes No Questionable

If questionable, explain: _____

Is the device intended for use by people with disabilities? Yes No Questionable

If questionable, explain: _____

If yes, does it comply with ICC/ANSI Standard A117.1? Yes No

1.2 Scope

1.2.1 Description

Did the device comply with the description noted in this standard? Yes No Questionable

If questionable, explain: _____

1.2.2 Size Range: _____ inches (_____ DN)

1.2.3 Flow Rates Before Actuation

(a) If the device is to be integrated into a supply fitting, does the flow rate comply with ASME A112.18.1/CSA B125.1? Yes No

(b) If the device is not to be integrated into a supply fitting, but it is to be used with a supply fitting that has a specified minimum flow rate in the ASME A112.18.1-2005 /CSA B125.1-2005 standard, what is the flow rate prior to actuation? _____ GPM (_____ L/min)

Is the minimum flow rate prior to actuation greater than the 0.5GPM (1.9 L/min) requirement of ASME/ANSI A112.18.1/CSA B125.1? Yes No

In compliance? Yes No

Note: If the device is to be used with a fixture fitting that has a specified maximum flow rate, no other maximum flow rate requirement is necessary unless the device is used to limit flow.

1.2.4 Pressure Range

What is the maximum working pressure of the device as noted by the manufacturer?

_____ psi (_____ kPa) to _____ psi (_____ kPa)

In compliance? Yes No

1.2.5 Temperature Range

What is the working temperature range as noted by the manufacturer? _____ to _____ °F (_____ to _____ °C)

Section II

2.0 Test Specimens

2.1 State the number of units provided for the laboratory evaluation. _____

2.2 How many units were utilized during the laboratory evaluation? _____

2.3 Drawings

Were assembly drawings, installation instructions and other data furnished which are required to determine compliance with this standard? Yes No Questionable

If questionable, explain: _____

Were the drawings reviewed in the laboratory? Yes No

Section III

3.0 Performance Requirements and Compliance Testing

3.1 Hydrostatic Pressure Test

What inlet supply pressure was used for this test? _____ psi (_____ kPa)

Note: The pressure shall be twice the manufacturer's rated working pressure or twice the working pressure noted in the standard (whichever is greater).

What was the water temperature? _____ °F (_____ °C)

The test period was for _____ minutes.

Was there any indication of leakage or evidence of damage? Yes No

In compliance? Yes No

3.2 Deterioration at Extremes of Manufacturer's Temperature and Pressure

What water temperature was used for this test? _____ °F (_____ °C)

What water pressure was used for this test? _____ psi (_____ kPa)

The test period was for _____ minutes.

Was there any indication of leakage or evidence of damage? Yes No

In compliance? Yes No

3.3 Flow Rate Test

Devices Integrated Into Fixture Fittings

What water temperature was used for this test? _____ °F (_____ °C)

What was the adjusted inlet water pressure? _____ psi (_____ kPa)

Was the inlet water pressure in accordance with the ASME A112.18.1/CSA B125.1 requirements?
 Yes No

What was the flow rate? _____ GPM (_____ L/min)

Was the flow rate in compliance with ASME A112.18.1/CSA B125.1? Yes No

In compliance? Yes No

3.4 TAFR Reduction and Reset Test

(See Table 1 for type of fixture supply and flow rates)

3.4.2 Was the mixing valve in the test set-up capable of making temperature changes within five (5) seconds? Yes No

(a) At an initial water temperature of 104.0°F ± 5.0°F (40.0°C ± 2.8°C):

What was the adjusted flow rate before reduction? _____ GPM (_____ L/min)

(b) After the inlet water temperature stabilizes at 104.0°F ± 5.0°F (40.0°C ± 2.8°C) reset the mixing valve to 135.0°F (57.2°C) within five (5) seconds.

What was the water temperature at the inlet of the device on test _____°F (_____°C)

What was the supply pressure? _____psi (_____kPa)

When the temperature reaches 120.0°F(48.9°C) record the time it took for the flow to reduce to 0.25 GPM (1.0 L/min) per table 1. _____ seconds

What was the supply pressure after flow reduction? _____ psi (_____kPa)

- (c) With the inlet temperature at 135.0°F ± 5.0°F (57.2°C ± 2.8°C), reset the mixing valve to 90.0°F (32.2°C) within five (5) seconds. When the temperature reaches 90.0°F + 5.0°F/-0°F (32.2°C + 2.8°C/-0°C) record the time elapsed for the device to automatically or manually reset. _____ seconds.
- (d) After the inlet water temperature stabilizes at 104.0°F ± 5.0°F (40.0°C ± 2.8°C) reset the mixing valve to 125.0°F (51.7°C) within five (5) seconds. [Repeat tests 3.4(b) and (c) using 125.0°F (51.7°C) as the basis.]

What was the water temperature at the inlet of device on test? _____°F (_____°C)

What was the supply pressure? _____psi (_____kPa)

When the temperature reaches 120.0°F (48.9°C), record the time it took for the flow to reduce to 0.25 GPM (1.0 L/min) per Table 1. _____ seconds

What was the supply pressure after flow reduction? _____ psi (_____ kPa)

With the inlet temperature at 125.0°F ± 5.0°F (51.7°C ± 3.0°C), reset the mixing valve to 90.0°F (32.2°C) within five (5) seconds. When the temperature reaches 90.0°F +5.0°F/-0°F (32.2°C + 2.8°C/-0°C) record the time elapsed for the device to automatically or manually reset. _____ seconds

- (e) After the inlet water temperature stabilizes at 104.0°F ± 5.0°F, (40.0°C ± 2.8°C) reset the mixing valve to 130.0°F (54.4°C) within five (5) seconds. [Repeat tests 3.4(b) and (c) using the 130.0°F (54.4°C) as the basis.]

What was the temperature at the inlet of the device on test? _____°F (_____°C)

What was the supply pressure? _____GPM (_____L/min)

When the temperature reaches 120.0°F (48.9°C), record the time it took for the flow to reduce to 0.25 PGM (1.0 L/min) per Table 1. _____ seconds

What was the supply pressure after flow reduction? _____ psi (_____ kPa)

With the inlet temperature at 130.0°F ± 5.0°F (54.4°C ± 3.0°C), reset the mixing valve to 90.0°F (32.2°C) within five (5) seconds. When the temperature reaches 90.0°F +5.0°F/-0°F (32.2°C + 2.8°C/-0°C), record the time elapsed for the device to automatically or manually reset. _____ seconds

- (f) After the inlet water temperature stabilizes at 104.0°F ± 5.0°F (40.0°C ± 2.8°C) reset the mixing valve to 140.0°F (60.0°C) within five (5) seconds. [Repeat tests 3.4(b) and (c) using 140.0°F (60.0°C) as the basis]

What was the temperature at the inlet of the device on test? _____°F (_____°C)

What was the supply pressure? _____GPM (_____L/min)

When the temperature reaches 120.0°F (48.9°C), record the time it took for the flow to reduce to 0.25 GPM (1.0L/min) per Table 1. _____ seconds

What was the supply pressure after flow reduction? _____ psi _____ kPa

With the inlet temperature at 140.0°F ± 5.0°F (60.0°C ± 3°C), reset the mixing valve to 90.0°F (32.2°C) within five (5) seconds. When the temperature reaches 90.0°F + 5.0°F/-0°F (32.2°C + 2.8°C/-0°C) record the time elapsed for the device to automatically or manually reset. _____ seconds

- 3.4.3 Did the device automatically reduce the discharge flow as indicated in Table 1 within five (5) seconds after the water temperature at the inlet exceeded 120.0°F (48.9°C)?
 Yes No

Did the device automatically or manually reset to full flow within ten (10) seconds after the inlet water temperature was reduced to 90.0° + 5.0°F/-0°F (32.2°C + 2.8°C/-0°C)?
 Yes No

In compliance? Yes No

3.5 Life Cycle Test

Total number of cycles to which the device was subjected: _____

Cycle speed used: _____ cycles/minute

What was the temperature of the:

- 1) Warm water supply? _____°F (_____°C)
- 2) Cold water supply? _____°F (_____°C)
- 3) Hot water supply? _____°F (_____°C)

What was the pressure used on the hot water supply? _____ psi (_____ kPa)

Was the device retested to Section 3.4 after the conclusion of the life cycle test?
 Yes No

In compliance? Yes No

3.6 Hydrostatic Pressure Test

What hydrostatic pressure was used? _____psi (_____kPa)

How long was the test conducted? _____ minutes

Was there any indication of leakage through the device? Yes No

WAS THE DEVICE IN COMPLETE COMPLIANCE WITH ALL THE TEST CRITERIA OF THIS STANDARD?

Yes No

Section IV

4.0 Detailed Requirements

4.1 Materials

What is the lead content of the solders and fluxes? _____%

What is the lead content of metal alloys in contact with potable water? _____%

For fittings intended to convey or dispense water for human consumption through drinking or cooking, what is the weighted average lead content when evaluated in accordance with the test method specified in NSF 372? _____%

For fittings covered by this standard and that are in contact with drinking water intended for human injection, do they comply with NSF/ANSI 61? Yes No Questionable N/A

If questionable, explain: _____

4.2 Coatings

Do all coatings comply with the requirements of A112.18.1/CSA B125.1?

Yes No

4.3 Markings

4.3.1

List the markings which appear on the device (for devices not integrated into a supply fixture):

- (a) Name of manufacturer of trade mark: _____
- (b) Model number: _____
- (c) Maximum actuation temperature for which the device is designed: _____°F (_____°C)
- (d) Other _____

4.3.2

List the packaging or installation instructions submitted (for devices not integrated into a supply fixture):

- (a) Maximum rated working pressure: _____psi (_____kPa)
- (b) Nominal device size: _____inches (_____mm)
- (c) Direction of flow: _____
- (d) Fitting classification: _____
- (e) Minimum flow rate prior to actuation: _____
- (f) Other _____

4.3.3

List the markings which appear on the installation instructions (for devices that are integrated into a supply fixture):

- (a) Name of manufacturer of trade mark: _____
- (b) Model number: _____
- (c) Maximum actuation temperature for which the device is designed: _____°F (_____°C)
- (d) Other _____

4.3.4

List the information marked on the packaging of the supply fitting (for devices that are integrated into a supply fixture):

- (a) Was there an indication that the supply fitting contains a temperature actuated flow reduction valve? Yes No
- (b) Was the maximum actuation temperature noted? Yes No

4.3.5 How were the markings applied to the device? _____

Were the markings clear, permanent and visible in the installed position?

Yes No

4.4 Installation Instructions

Were the manufacturer's instructions for installation included?

Yes No

Did they include the tested & approved installation position(s) of the device?

Yes No

4.5 Maintenance

Were complete instructions for field maintenance and field repair included?

Yes No

4.6 Field Testing

Were manufacturer's recommendations for field testing furnished?

Yes No

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: _____