

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

ASSE Standard #1071 • Revised: October 2012
Temperature Actuated Mixing Valves for Plumbed Emergency Equipment

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 device comply with the application of this standard?

- Yes
 No
 Questionable

If questionable, explain:

1.2 Scope

1.2.1 Description

Does the device have a hot water inlet connection, a cold water inlet connection and a mixed water outlet connection?

- Yes
 No

Does the device have a temperature controlling element and a means for adjusting the mixed water outlet temperature while in service?

- Yes
 No

What provisions were made so that the temperature cannot be inadvertently adjusted?

1.2.2 Connections

Size and type of connections:

Inlets:

Outlet:

1.2.3 Minimum Flow

What is the minimum flow as stated by the manufacturer? GPM (L/m)

1.2.4 Maximum Working Pressure

What is the maximum working pressure as stated by the manufacturer? psi (kPa)

1.2.5 Temperature Range

What are the hot water and cold water inlet temperature ranges as stated by the manufacturer?

Hot Water: °F to °F (°C to °C)

Cold Water: °F to °F (°C to °C)

What is the outlet water temperature range as stated by the manufacturer?

°F to °F (°C to °C)

1.2.6 Did the manufacturer provide their by-pass flow rate at 30.0 psi (206.9 kPa) pressure differential?

- Yes
 No

Section II

2.0 Test Specimens

2.1 Samples Submitted for Test

Was the proper production unit size and model furnished for the testing?

- Yes
 No
 Questionable

If questionable, explain:

How many assemblies of each size and model were submitted?

2.2 Samples Submitted for Test

How many units were utilized during the laboratory evaluation?

2.3 Drawings

Were assembly drawings and other data necessary to determine compliance provided and were these reviewed by the testing agency?

- Yes
 No
 Questionable

If questionable, explain:

Section III

3.0 Performance Requirements & Compliance Testing

3.1 Conditioning Test

What was the water temperature as recorded at T3? °F (°C)
What was the water pressure as recorded at P3? psi (kPa)
What was the length of time that this conditioning test was run? hours seconds

Was any design feature of this device disabled for the purposes of this test? Yes
 No

Were there any visible leaks, distortion or damage from or to this device? Yes
 No

Was this device in full compliance with Section 3.1? Yes
 No

3.2 Temperature Control Test

What was the temperature of the water at the hot water inlet? °F (°C)
What was the temperature of the water at the cold water inlet? °F (°C)

Was the cold water supply temperature maintained within 3.0°F (1.7°C) throughout this test?
 Yes
 No

Was it necessary to adjust the high temperature limit stop on this device? Yes
 No

After flowing water for 1 minute per Section 3.2.2a, what were the temperatures at:

T1: °F (°C)
T2: °F (°C)
T3: °F (°C)

And pressures at:

P1: psi (kPa)
P2: psi (kPa)
P3: psi (kPa)

What was the flow rate? GPM (L/m)

After reducing the water flow per Section 3.2.2b, what were the temperatures at:

T1: °F (°C)
T2: °F (°C)
T3: °F (°C)

And pressures at:

P1: psi (kPa)
P2: psi (kPa)
P3: psi (kPa)

What was the flow rate? GPM (L/m)

After increasing the temperature of the hot water supply per Section 3.2.2c, what were the temperatures at:

T1: °F (°C)
T2: °F (°C)
T3: °F (°C)

And pressures at:

P1: psi (kPa)
P2: psi (kPa)
P3: psi (kPa)

What was the flow rate? GPM(L/m)

After reducing the water flow per Section 3.2.2d, what were the temperatures at:

T1: °F (°C)
T2: °F (°C)
T3: °F (°C)

And pressures at:

P1: psi (kPa)
P2: psi (kPa)
P3: psi (kPa)

What was the flow rate? GPM (L/m)

After fully opening valve V2 per Section 3.2.2e, what were the temperatures at:

T1: °F (°C)
T2: °F (°C)
T3: °F (°C)

And pressures at:

P1: psi (kPa)
P2: psi (kPa)
P3: psi (kPa)

What was the flow rate? GPM (L/m)

In each portion of this test, did the device comply with the permissible temperature variations for flows and pressure differentials as shown in Table 1? Yes No

Did the device at any time exceed an outlet temperature of 100°F (37.8°C)? Yes No

Did the device meet the manufacturer's rated flow at 30.0 psi (206.9 kPa) differential pressure? Yes No

Was the device in full compliance with Section 3.2? Yes No

3.3 Hot Water Shut-Off Test

After the device was adjusted to re-establish a 30.0 psi (206.9 kPa) pressure differential between the cold water inlet and the device's outlet per Section 3.3.2, what was the flow rate?

GPM (L/m)

For devices rated less than 20.0 GPM (75.7 L/m), was the flow less than 1.5 GPM (5.7 L/m) or less than the manufacturer's stated by-pass flow at 30 psi (206.9 kPa) differential pressure?

- Yes
 No

For devices rated 20.0 GPM (75.7 L/m) or higher, was the flow less than 15.0 GPM (75.7 L/m) or less than the manufacturer's stated by-pass flow at 30 psi (206.9 kPa) differential pressure?

- Yes
 No

Was the device in full compliance with Section 3.3?

- Yes
 No

3.4 Maximum Outlet Temperature Test

After initial test conditions were re-set as in Section 3.2.2 and valve V2 was opened, what were temperatures at:

T1: °F (°C)
T2: °F (°C)
T3: °F (°C)

What was the temperature at T3 after adjusting the device to its maximum limit setting?

T3: °F (°C)

Did the device at any time exceed an outlet temperature of 100°F (37.8°C)?

- Yes
 No

3.5 Cold Water Shut-Off Test

When the cold water inlet supply was shut-off, did the outlet temperature at T3 ever exceed 100°F (37.8°C) prior to a reduction of the flow to the values listed in Table 1 for 'Maximum Allowable Flow with Cold Water Shut-Off'?

- Yes
 No

What was the maximum temperature recorded prior to the flow reduction per Table 1?

°F (°C)

3.6 Cross Flow Test

Was there any leakage from the opposite port in excess of 0.013 gpm (50 cc/min.) when a water pressure of 5.0 psi (34.5 kPa) was applied to the cold water or hot water ports?

- Yes
 No

3.7 Hydrostatic Pressure Test

What was the water pressure used for this test?

psi (kPa)

What was the water temperature used for this test?

°F (°C)

Was there any leakage through the valve body?

- Yes
 No

Section IV

4.0 Detail Requirements

4.1 Installation and Maintenance Instructions

Were installation, adjustment, testing and maintenance instructions provided with the device?

- Yes
 No

Did installation instructions include the following information:

- Inlet and outlet connection sizes
- Maximum working pressure
- Manufacturer's stated flow at 30.0 psi (206.9 kPa) differential pressure
- Manufacturer's stated cold water by-pass flow at 30.0 psi (206.9 kPa) differential pressure
- Manufacturer's minimum stated flow
- Procedure for setting the high temperature limit stop (if applicable)
- Manufacturer's maximum stated flow with cold water shut-off

Did the instructions indicate that the installation and field adjustments of the device are the responsibility of the installer?

- Yes
- No

Did instructions indicate that the installer shall verify that no single emergency fixture supplied by this device has a minimum flow rate less than 1.5 GPM (5.7 L/m)?

- Yes
- No

Did the instructions indicate that if shut-off valves are installed, provisions shall be made to prevent unauthorized shut-off?

- Yes
- No

4.2 Identification and Markings

What markings were found on the device?

How were the markings applied?

TESTING AGENCY _____

ADDRESS _____

PHONE _____ FAX _____

TEST ENGINEER(S) _____

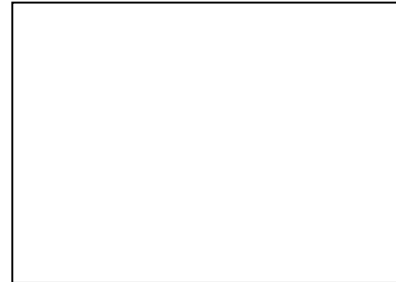
We certify that the evaluations are based on our best judgments and that the test data recorded is an accurate record of the performance of the device on test.

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



PE Seal

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