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CSA B125.70-15

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Performance Requirements for  
**Water Temperature  
Limiting Devices**



*An American National Standard*

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<b>Revised</b>	Preface
<b>New</b>	None
<b>Deleted</b>	None

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**Performance requirements for water  
temperature limiting devices**

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# Contents

ASME A112 Standards Committee on Plumbing Materials and Equipment v

ASSE Product Standards Committee vii

CSA Technical Committee on Plumbing Fittings viii

ASME/ASSE/CSA Harmonization Task Group on Plumbing Fittings xi

Preface xiii

## Section I 1

### 1 Scope 1

## Section II 1

### 2 Reference publications and definitions 1

2.1 Reference publications 1

2.2 Definitions 2

## Section III 2

### 3 Design and general requirements 2

3.1 Rated pressure, flow rate, and temperature range 2

3.1.1 Rated pressure 2

3.1.2 Flow rate 3

3.1.3 Temperature range 3

3.2 Solder joints 3

3.3 Threads 3

3.4 Flared and ball sleeve (compression) tube fittings 3

3.5 Push-fit fittings 3

3.6 Function 3

3.7 Cross-flow 4

3.8 Toxicity and lead content 4

3.9 Devices incorporating electrical features 4

3.10 Servicing 4

## Section IV 5

### 4 Performance requirements and test methods 5

4.1 General 5

4.1.1 Preconditioning 5

4.1.2 Installation for testing 5

4.1.3 Test sequence 5

4.2 High-temperature conditioning test 5

4.2.1 Purpose 5

4.2.2 Procedure 5

4.2.3 Failure criteria 5

4.3 Working pressure and temperature test 5

4.3.1 General 5

4.3.2 Purpose 6

4.3.3	Procedure with the valve closed	6
4.3.4	Procedure with the valve opened and the outlet(s) blocked	6
4.3.5	Test temperatures and pressures	6
4.3.6	Failure criteria	6
4.4	Cross-flow test	6
4.4.1	Purpose	6
4.4.2	Procedures	6
4.4.3	Failure criteria	6
4.5	Life cycle test	7
4.5.1	Purpose	7
4.5.2	Procedure	7
4.5.3	Failure criteria	7
4.6	Pressure and temperature variation test	7
4.6.1	Data gathering	7
4.6.2	Procedure	7
4.6.3	Failure criteria	8
4.7	Cold water supply failure test	9
4.7.1	Purpose	9
4.7.2	Procedure	9
4.7.3	Failure criteria	9
4.8	Hydrostatic pressure test	9
4.8.1	Purpose	9
4.8.2	Procedure	9
4.8.3	Failure criteria	9

## **Section V** 9

### **5 Markings, packaging, instructions, and literature** 9

5.1	Product markings	9
5.2	Temperature control setting identification	10
5.3	Packaging	10
5.4	Installation and maintenance instructions	10
5.5	Rated flow	10
5.6	Water temperature	10

### **Annexes**

<b>A</b> (informative)	— Unit conversion and rounding criteria	12
<b>B</b> (informative)	— Verifying the time constant of the temperature-measuring equipment	13

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### **Figures**

<b>1</b>	— Set-up for high-temperature conditioning, pressure and temperature limit, and cold water supply failure tests	11
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## Δ *Preface*

This is the first edition of ASSE 1070/ASME A112.1070/CSA B125.70, *Performance requirements for water temperature limiting devices*. It

- (a) supersedes ASSE 1070:2004, *Performance requirements for water temperature limiting devices*; and
- (b) replaces the requirements for automatic temperature limiting devices in CSA B125.3, *Plumbing fittings*.

This Standard is considered suitable for use with conformity assessment within the stated scope of the Standard.

This Standard was prepared by the ASSE/ASME/CSA Harmonization Task Group on Plumbing Fittings, under the jurisdiction of the ASME A112 Standards Committee on Plumbing Materials and Equipment, the ASSE Product Standards Committee, and the CSA Technical Committee on Plumbing Fittings. The CSA Technical Committee operates under the jurisdiction of the CSA Strategic Steering Committee on Construction and Civil Infrastructure.

This Standard was formally approved by the ASME Standards Committee on Plumbing Materials and Equipment, the ASSE Product Standards Committee, and the CSA Technical Committee on Plumbing Fittings.

This Standard was approved as an American National Standard by the American National Standards Institute on October 30, 2015.

### **ASME Notes:**

- (1) *This standard was developed under procedures accredited as meeting the criteria for American National Standards and it is an American National Standard. The Standards Committee that approved the code or standard was balanced to assure that individuals from competent and concerned interests have had an opportunity to participate. The proposed Standard was made available for public review and comment that provides an opportunity for additional public input from industry, academia, regulatory agencies, and the public-at-large.*
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Secretary, A112 Standards Committee  
The American Society of Mechanical Engineers Two Park Avenue  
New York, NY 10016-5990  
A request for interpretation should be clear and unambiguous. The request should*
  - *cite the applicable edition of the Standard for which the interpretation is being requested.*
  - *phrase the question as a request for an interpretation of a specific requirement suitable for general understanding and use, not as a request for an approval of a proprietary design or situation. The inquirer may also include any plans or drawings, which are necessary to explain the question; however, they should not contain proprietary names or information.**ASME procedures provide for reconsideration of any interpretation when or if additional information that might affect an interpretation is available. Further, persons aggrieved by an interpretation may appeal to the cognizant ASME Committee.  
Interpretations are published on the ASME Web site under the Committee Pages at <http://cstools.asme.org/> as they are issued.*

### **CSA Notes:**

- (1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*

- (2) Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.
- (3) This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.
- (4) To submit a request for interpretation of this Standard, please send the following information to [inquiries@csagroup.org](mailto:inquiries@csagroup.org) and include “Request for interpretation” in the subject line:
  - (a) define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;
  - (b) provide an explanation of circumstances surrounding the actual field condition; and
  - (c) where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at [standardsactivities.csa.ca](http://standardsactivities.csa.ca).
- (5) This Standard is subject to review five years from the date of publication. Suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to [inquiries@csagroup.org](mailto:inquiries@csagroup.org) and include “Proposal for change” in the subject line:
  - (a) Standard designation (number);
  - (b) relevant clause, table, and/or figure number;
  - (c) wording of the proposed change; and
  - (d) rationale for the change.

#### **ASSE Notes:**

##### **(1) Requests for interpretation**

Requests for interpretation may be sent to any of the (3) standards organizations. All interpretations are reviewed and agreed upon by the ASSE International, ASME, and CSA prior to response. Requests for interpretations may be sent to:

Staff Engineering Group  
ASSE International  
18927 Hickory Creek Drive, Suite 220  
Mokena, IL 60448-8399

Requests must include:

- Name and contact information of the individual requesting the interpretation;
- Name of organization the individual represents (if any);
- Appropriate references to the standard's clauses that have a bearing on the issue cited in the request;
- A concise explanation of the issue requiring a technical interpretation;
- Any supporting documentation that will assist in understanding or describing the issue;
- Any recommendations the requestor would like to make concerning a possible technical interpretation, along with appropriate justification or comments.

Forms for requests or general guidance can be obtained by emailing [staffengineer@asse-plumbing.org](mailto:staffengineer@asse-plumbing.org).

##### **(2) Endorsement vs. Listing**

ASSE International does not endorse any product, but rather lists products that have successfully been applied for and meet the given standard. In exchange the manufacturer is allowed to place the ASSE Seal with the given standard number on their product for public recognition.

In order to apply for listing, visit [www.asse-plumbing.org/seal/listing\\_instructions.html](http://www.asse-plumbing.org/seal/listing_instructions.html).

##### **(3) Patent rights**

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##### **(4) Committee or Working Group Membership**

Each standard is developed by a working group and then approved by the Product Standards Committee and Board of Directors of ASSE International. In order to apply for membership on a working group or any committee, the applications are available at

[www.asse-plumbing.org/standards/WorkingGroupApp.pdf](http://www.asse-plumbing.org/standards/WorkingGroupApp.pdf).

# ASSE 1070-2015/ASME A112.1070-2015/ CSA B125.70-15

## ***Performance requirements for water temperature limiting devices***

### **Section I**

#### **1 Scope**

##### **1.1**

This Standard covers water temperature limiting devices intended to limit the hot or tempered water temperature supplied to fittings for fixtures such as sinks, bidets, lavatories, and bathtubs to reduce the risk of scalding. These devices are not designed to address thermal shock.

**Note:** *Unless otherwise specified in this Standard, water temperature limiting devices are referred to as "devices".*

##### **1.2**

In this Standard, "shall" is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; "should" is used to express a recommendation or that which is advised but not required; and "may" is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying sections do not include requirements or alternative requirements; the purpose of a note accompanying a section is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

##### **1.3**

SI units are the units of record in Canada. In this Standard, the inch/pound units are shown in parentheses.

The values stated in each measurement system are equivalent in application; however, each system is to be used independently. Combining values from the two measurement systems can result in non-conformance with this Standard.

All references to gallons are to U.S. gallons.

For information on the conversion criteria used in this Standard, see [Annex A](#).

### **Section II**

#### **2 Reference publications and definitions**

##### **2.1 Reference publications**

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.