



**ASSE 1070-2020/
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CSA B125.70:20**
National Standard of Canada
American National Standard

Performance requirements for water temperature limiting devices



Standards Council of Canada
Conseil canadien des normes

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Preface

This is the second edition of ASSE 1070/ASME A112.1070/CSA B125.70, *Performance requirements for water temperature limiting devices*. It supersedes the previous edition published in 2015.

This Standard is considered suitable for use for 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 has been 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 has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

This Standard was approved as an American National Standard by the American National Standards Institute on July 17, 2020.

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.*
- 2) *ASME does not “approve,” “rate,” or “endorse” any item, construction, proprietary device, or activity.*
- 3) *ASME does not take any position with respect to the validity of any patent rights asserted in connection with any items mentioned in this document, and does not undertake to insure anyone utilizing a standard against liability for infringement of any applicable letters patent, nor assume any such liability. Users of a standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, is entirely their own responsibility.*
- 4) *Participation by federal agency representative(s) or person(s) affiliated with industry is not to be interpreted as government or industry endorsement of this standard.*
- 5) *ASME accepts responsibility for only those interpretations of this document issued in accordance with the established ASME procedures and policies, which precludes the issuance of interpretations by individuals.*
- 6) *ASME issues written replies to inquiries concerning interpretation of technical aspects of this Standard. All inquiries regarding this Standard, including requests for interpretations, should be addressed to:*
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 <https://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 publication 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 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.

- 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 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:

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.

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.

3) **Patent rights**

ASSE International complies with Section 3.1 of ANSI Essential Requirements — Inclusion of Patents in American National Standards. To understand what is and is not covered, visit www.ansi.org/essentialrequirements.

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.

ASSE 1070-2020/ ASME A112.1070-2020/ CSA B125.70:20 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 clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause 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](#).