



**ASME A112.4.2-2015/
CSA B45.16:15**
(reaffirmed 2020)

Personal hygiene devices for water closets



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Contents

ASME A112 Standards Committee on Plumbing Materials and Equipment *iv*

CSA Technical Committee on Plumbing Fixtures (B45) *vi*

CSA/ASME Harmonization Task Group on Plumbing Fixtures (B45-JHTG) *ix*

Preface *x*

1 Scope 1

2 Reference publications 1

3 Definitions 2

4 General requirements 2

- 4.1 Water closets 2
- 4.2 Backflow prevention 2
- 4.3 Electrical components 3
- 4.4 Plastic toilet seats 3
- 4.5 Bidet sprayers 3
- 4.6 Source of water 3
- 4.7 Automatic seat cover dispensers 3
- 4.8 Temperature safety device 3

5 Performance requirements and test procedures 3

- 5.1 Order of tests 3
- 5.2 Bidet spray pressure tests 3
 - 5.2.1 Flowing pressure test 3
 - 5.2.2 Static pressure test 4
- 5.3 Temperature tests 4
 - 5.3.1 Normal operating temperature test 4
 - 5.3.2 Maximum shutoff temperature for safety devices 4
- 5.4 Bidet sprayer life cycle test 4
 - 5.4.1 Test procedure 4
 - 5.4.2 Performance requirements 5
- 5.5 Atmospheric vacuum breaker test 5
 - 5.5.1 Test procedure 5
 - 5.5.2 Performance requirements 5
- 5.6 Seat cover dispenser test 5
 - 5.6.1 Test procedure 5
 - 5.6.2 Performance requirements 5
- 5.7 Bidet sprayer self-cleaning test 5
 - 5.7.1 Test procedure 5
 - 5.7.2 Performance requirements 5

6 Markings and packaging 5

Preface

This is the first edition of ASME A112.4.2/CSA B45.16, *Personal hygiene devices for water closets*.

This joint Standard was developed in response to an industry request for testing that would be acceptable in both Canada and the United States. Its coverage is restricted to personal hygiene devices. Harmonized standards for plumbing fixtures made of other materials are also available or under development.

This Standard replaces the previous edition of ASME A112.4.2, *Water Closet Personal Hygiene Devices*, published in 2009 and 2003.

This Standard was prepared by the ASME/CSA Joint Harmonization Task Group on Plumbing Fixtures, under the jurisdiction of the ASME Standards Committee A112 on Plumbing Materials and Equipment and the CSA B45 Technical Committee on Plumbing Fixtures. The CSA Technical Committee operates under the jurisdiction of the CSA Strategic Steering Committee on Plumbing Products and Materials. This Standard has been formally approved by the ASME Standards Committee A112 and the CSA Technical Committee. This Standard was approved as an American National Standard by the American National Standards Institute on June 18, 2015.

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- *cite the applicable edition of the Standard for which the interpretation is being requested.*
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- (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 publication.*
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 - (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.*

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ASME A112.4.2-2015/CSA B45.16-15

Personal hygiene devices for water closets

1 Scope

1.1

This Standard covers personal hygiene devices for water closets and specifies requirements for materials, construction, performance, testing, and markings.

1.2

Products covered by this Standard include bidet sprayers and other retrofit personal hygiene devices intended

- (a) for water closets and water closet seats; and
- (b) to be used with hot and cold water or cold water only.

1.3

The provisions of this Standard are not intended to prevent the use of alternative materials or methods of construction, provided such alternatives meet the intent and requirements of this Standard.

1.4

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.

1.5

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 may result in non-conformance with this Standard.

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

2 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.

ASME International/CSA Group

A112.19.2-2013/CSA B45.1-13

Ceramic plumbing fixtures