

# **Plumbing fittings**



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# Preface

This is the first edition of CSA B125.3, *Plumbing fittings*.

Together with ASME A112.18.1-2005/CSA B125.1-05, *Plumbing supply fittings*, and ASME A112.18.2-2005/CSA B125.2-05, *Plumbing waste fittings*, this Standard replaces CSA B125-01, *Plumbing fittings*. It covers devices, e.g., automatic compensating valves and anti-siphon fill valves, that were previously covered by CSA B125 but are not covered by ASME A112.18.1/CSA B125.1 or ASME A112.18.2/CSA B125.2. The design requirements of this Standard are generally similar to those of CSA B125.

This Standard was prepared by the Technical Committee on Plumbing Fittings, under the jurisdiction of the Strategic Steering Committee on Plumbing Products and Materials, and has been formally approved by the Technical Committee. It will be submitted to the Standards Council of Canada for approval as a National Standard of Canada.

June 2005

## 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 publication.*
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- (5) *All enquiries regarding this Standard, including requests for interpretation, should be addressed to Canadian Standards Association, 5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada L4W 5N6.*
  - Requests for interpretation should*
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    - (b) *provide an explanation of circumstances surrounding the actual field condition; and*
    - (c) *be phrased where possible to permit a specific “yes” or “no” answer.*

*Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are published in CSA’s periodical Info Update, which is available on the CSA Web site at [www.csa.ca](http://www.csa.ca).*

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# B125.3-05

## Plumbing fittings

### 1 Scope

#### 1.1

This Standard applies to plumbing fittings such as the following:

- (a) anti-siphon fill valves;
- (b) automatic compensating valves other than those for individual wall-mounted showering systems;
- (c) closet and urinal spuds;
- (d) flexible connectors;
- (e) flush valves;
- (f) temperature-actuated in-line mixing valves;
- (g) flushometer valves and solenoid valves;
- (h) supply line stops;
- (i) thermal expansion relief valves; and
- (j) trap primers.

**Note:** See [Clauses 1.2](#) and [1.3](#) for plumbing fittings not covered by this Standard.

#### 1.2

This Standard does not apply to plumbing supply fittings and accessories covered by ASME A112.18.1/CSA B125.1, as follows:

- (a) automatic compensating valves for individual wall-mounted showering systems;
- (b) bath and shower supply fittings;
- (c) bidet supply fittings;
- (d) clothes washer supply fittings;
- (e) drinking fountain supply fittings;
- (f) humidifier supply stops;
- (g) kitchen, sink, and lavatory supply fittings;
- (h) laundry tub supply fittings;
- (i) lawn and sediment faucets;
- (j) metering and self-closing supply fittings; and
- (k) supply stops.

#### 1.3

This Standard does not apply to plumbing waste fittings NPS-2 and smaller, which are covered by ASME A112.18.2/CSA B125.2.

#### 1.4

This Standard does not apply to pipes and tubes or pipe and tube fittings.

#### 1.5

In CSA Standards, “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. Legends to equations and figures are considered requirements.

## 1.6

The values given in SI (metric) units are the standard. The values given in parentheses are for information only.

All references to gallons are to US gallons.

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

## 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.

### **CSA (Canadian Standards Association)**

ASME A112.18.1-2005/CSA B125.1-05

*Plumbing supply fittings*

ASME A112.18.2-2005/CSA B125.2-05

*Plumbing waste fittings*

CAN/CSA-B45 Series-02

*Plumbing fixtures*

CAN/CSA-B64 Series-01

*Backflow preventers and vacuum breakers*

### **ASME International (American Society of Mechanical Engineers)**

A112.1.2-1991 (R2002)

*Air Gaps in Plumbing Systems*

ASME A112.18.1-2005/CSA B125.1-05

*Plumbing Supply Fittings*

ASME A112.18.2-2005/CSA B125.2-05

*Plumbing Waste Fittings*

A112.18.3-2002

*Performance Requirements for Backflow Devices and Systems in Plumbing Fixture Fittings*

B1.1-1989 (R2001)

*Unified Inch Screw Threads, UN and UNR Thread Form*

B1.20.1-1983 (R2001)

*Pipe Threads, General Purpose, Inch*

B1.20.7-1991 (R2003)

*Hose Coupling Screw Threads, Inch*

B16.18-2001

*Cast Copper Alloy Solder Joint Pressure Fittings*

B16.22-2001

*Wrought Copper and Copper Alloy Solder Joint Pressure Fittings*