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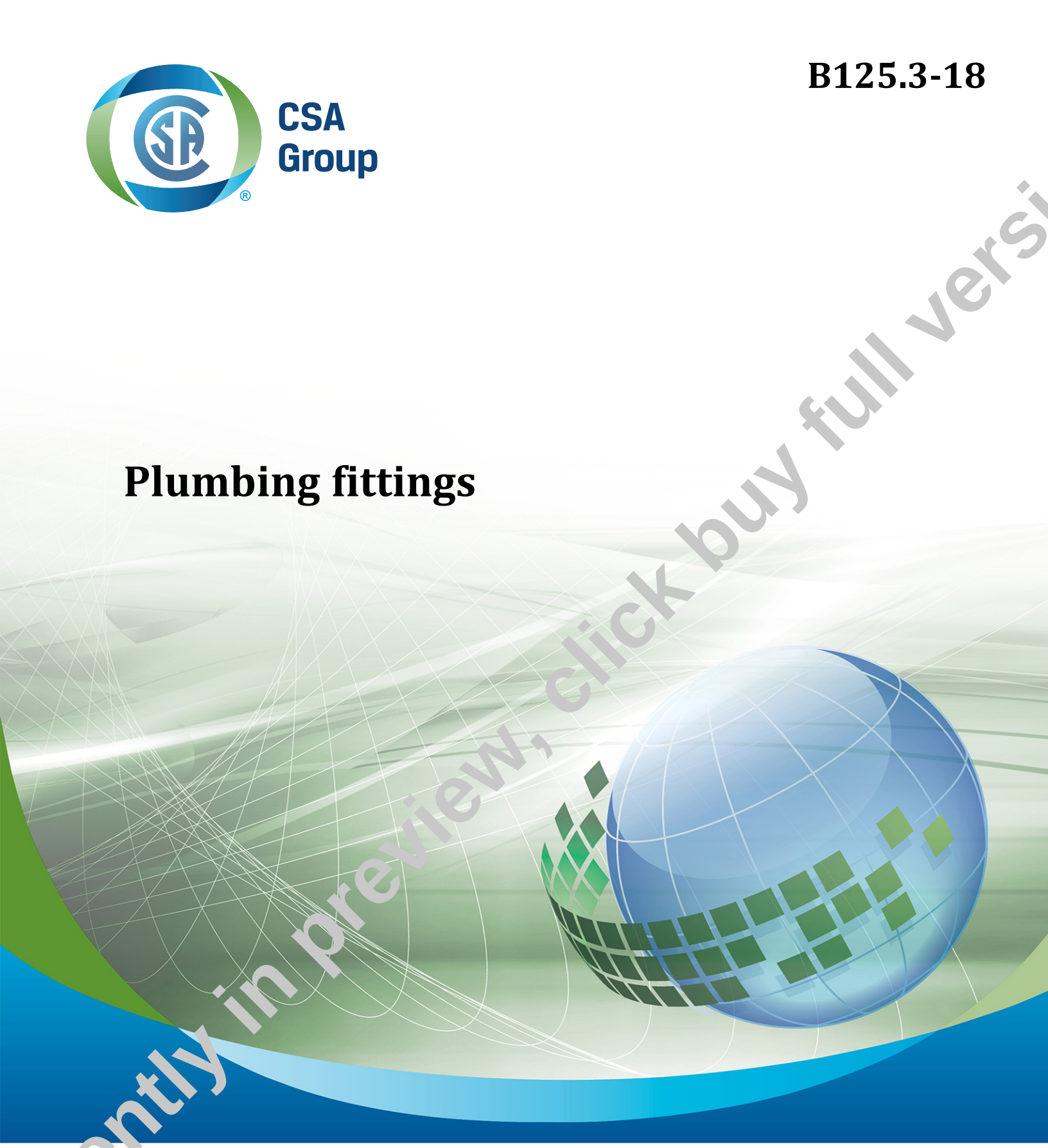
Plumbing fittings



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Plumbing fittings

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Preface

This is the fourth edition of CSA B125.3, *Plumbing fittings.* It supersedes the previous editions, published in 2012, 2011, and 2005.

Together with ASME A112.18.1/CSA B125.1, *Plumbing supply fittings,* ASME A112.18.2/CSA B125.2, *Plumbing waste fittings,* and ASME A112.18.6/CSA B125.6, *Flexible water connectors,* this Standard forms a series to cover plumbing fittings.

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

This Standard was prepared by the Technical Committee on Plumbing Fittings, under the jurisdiction of the Strategic Steering Committee on Construction and Civil Infrastructure, and has been formally approved by the Technical Committee.

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 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 within 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.*

B125.3-18
Plumbing fittings

1 Scope

1.1

This Standard covers plumbing fittings, including the following:

a) automatic compensating valves other than those for individual wall-mounted showering systems;
b) solenoid valves;
c) temperature-actuated in-line mixing valves;
d) thermal expansion relief valves; and
e) trap primers.

1.2

This Standard does not cover the following plumbing supply fittings and accessories, which are covered by ASME A112.18.1/CSA B125.1:

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 cover

a) plumbing waste fittings, which are covered by ASME A112.18.2/CSA B125.2;
b) flexible water connectors under continuous pressure, which are covered by ASME A112.18.6/CSA B125.6;
c) pipes and tubes or pipe and tube fittings;
d) flushometer valves which are covered by ASSE 1037/ASME A112.1037/CSA B125.37;
e) anti-siphon fill valves which are covered by ASSE 1002/ASME A112.1002/CSA B125.12;
f) automatic temperature-limiting devices which are covered by ASSE 1070/ASME A112.1070/CSA B125.70; and
g) supply line stops which are covered in ASME A112.4.14/CSA B125.14.

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 (nonmandatory) 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 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.

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 (The American Society of Mechanical Engineers)

A112.1.2-2017
Air Gaps in Plumbing Systems (for Plumbing Fixtures and Water-Connected Receptors)

A112.18.3-2017
Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings

B1.1-2003 (R2008)
Unified Inch Screw Threads, (UN and UNR Thread Form)

B1.20.1-1983 (R2006)
Pipe Threads, General Purpose, Inch

B1.20.7-1991 (R2008)
Hose Coupling Screw Threads, Inch

B16.18-2001 (R2005)
Cast Copper Alloy Solder Joint Pressure Fittings

B16.22-2001 (R2005)
Wrought Copper and Copper Alloy Solder Joint Pressure Fittings

