B125.3-05

Plumbing fittings

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CONSOLIDATED MAILING LIST
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Contents

Technical Committee on Plumbing Fittings *vi*

Preface *viii*

Foreword *ix*

1 Scope *1*

2 Reference publications *2*

3 Definitions and abbreviations *3*
3.1 Definitions *3*
3.2 Abbreviations *5*

4 Design requirements *5*
4.1 Rated pressure *5*
4.2 Rated temperatures *5*
4.3 Seating members *5*
4.4 Servicing *5*
4.5 Solder joints *5*
4.6 Threads *6*
4.7 Flared and ball sleeve (compression) tube fittings *6*
4.8 Accessible design *6*
4.9 Flexible connectors *6*
4.9.1 General *6*
4.9.2 Water heater connectors *6*
4.10 Flushometer valves *6*
4.11 Temperature-actuated mixing valves *6*
4.12 Backflow prevention *6*
4.13 Automatic compensating valves *6*
4.14 Cover plates and escutcheons *6*
4.15 Materials *6*
4.16 Toxicity *7*
4.17 Trap primers *7*
4.18 Fittings incorporating electrical features *7*
4.19 Dimensions *7*
4.19.1 Water closet tank flush valves *7*
4.19.2 Anti-siphon fill valves *7*
4.19.3 Water closet and urinal spuds *7*
4.20 Cross-flow *8*

5 Performance requirements and test methods *8*
5.1 General *8*
5.1.1 Preconditioning *8*
5.1.2 Installation for testing *8*
5.2 Coatings *8*
5.3 Pressure and temperature *8*
5.3.1 Static and dynamic seals *8*
5.3.2 Burst pressure *8*
5.3.3 Cross-flow check valves *8*
5.3.4 Flexible connectors *9*

5.4 Flow rate *9*
5.4.1 Supply fittings *9*
5.4.2 Flushometer valves *9*
5.4.3 Flexible connectors — Flow rate and pressure drop *10*
5.4.4 Anti-siphon fill valves *10*
5.4.5 Non-hold-open flushometer valves for use with low-consumption or water-saver water closets *11*
5.4.6 Thermal expansion relief valves *11*
5.4.7 Trap primers *12*
5.5 Resistance to installation loading and use loading *12*
5.6 Operating requirements *12*
5.6.1 Manually operated controls *12*
5.6.2 Performance requirement *12*
5.6.3 Accessible design devices *12*
5.7 Automatic compensating valves *12*
5.7.1 Performance criteria *12*
5.7.2 Set-up *13*
5.7.3 Test procedure for pressure-compensating valves *13*
5.7.4 Test procedure for thermostatic-compensating valves *13*
5.7.5 Procedure for the supply line pressure-loss test *14*
5.8 Life cycle *14*
5.8.1 General *14*
5.8.2 Trap primers *14*
5.8.3 Flushometer valves *14*
5.8.4 Anti-siphon fill valves *15*
5.8.5 Automatic compensating valves *15*
5.8.6 Thermal expansion relief valves *15*
5.8.7 Flush valves *16*
5.8.8 Other devices *16*
5.9 Backflow prevention *16*
5.9.1 General *16*
5.9.2 Back siphonage test for anti-siphon fill valves *17*
5.9.3 Trap primers *18*

6 Markings *18*
6.1 General *18*
6.2 Fill valves *19*
6.3 Flushometer valves *19*
6.4 Thermal expansion relief valves *19*
6.5 Flexible connectors *19*
6.6 Temperature identification *19*
6.7 Packaging *19*
6.8 Installation instructions *19*
6.8.1 Trap primers *19*
6.8.2 Automatic compensating valves *19*
6.8.3 Fill valves *19*
6.8.4 Flushometer valves *19*

Annexes
A (informative) — Unit conversion criteria *29*

Tables
1 — Flow rates for supply fittings *20*
2 — Flow rate and pressure drop for flexible connectors *20*
3 — Valve-operating requirements *21*

4 — Allowable variations in discharge temperature for thermostatic compensating valves *21*
5 — Life cycle test *21*

Figures

1 — Water closet tank flush valve *22*
2 — Shank for water closet tank fill valve *22*
3 — Dimensions of regular water closet and urinal spuds *23*
4 — Dimensions of reducing water closet and urinal spuds *24*
5 — Anti-siphon fill valve test station *25*
6 — Location of critical level anti-siphon fill valves *26*
7 — Thermal expansion relief valves *27*
8 — Set-up for the life cycle test for automatic compensating valves *27*
9 — Typical trap primer *28*
10 — Set-up for back siphonage test for trap primers *28*

Technical Committee on Plumbing Fittings

A. Knapp	A. Knapp & Associates, Toronto, Ontario	*Chair*
B. Lagueux	Régie du bâtiment du Québec, Québec, Québec	*Vice-Chair*
W. Ball	Woodford Manufacturing Company, Colorado Springs, Colorado, USA	*Associate*
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I. Chang	Intertek ETL SEMKO, Coquitlam, British Columbia	*Associate*
A. Ciechanowski	NSF International, Ann Arbor, Michigan, USA	*Associate*
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J. Gunn	Roches Point, Ontario *Consumer Representative*	
E. Ho	IAPMO Research & Testing, Inc., Markham, Ontario	*Associate*
K.S. Hui	Ontario Ministry of Municipal Affairs and Housing, Toronto, Ontario	

N. Kummerlen	Moen Incorporated, North Olmsted, Ohio, USA	*Associate*
F. Lemieux	Health Canada, Ottawa, Ontario	
P.W. Meikle	PW Meikle & Associates Inc., Antioch, California, USA	*Associate*
L.A. Mercer	Moen Incorporated, North Olmsted, Ohio, USA	*Associate*
D. Myers	New Brunswick Community College, Saint John, New Brunswick	
P. Paré	Watts Industries (Canada) Inc., Burlington, Ontario	*Associate*
F. Pieters	Bélanger UPT, Dorval, Québec	
S. Rawalpindiwala	Kohler Co., Kohler, Wisconsin, USA	
S. Remedios	Delta Faucet Company, Indianapolis, Indiana, USA	*Associate*
P. Saeed	Powers (a division of Watts Water Technologies, Inc.), Des Plaines, Illinois, USA	
S. Sylvain	Ville de Montréal, Montréal, Québec	
D.W. Viola	Plumbing Manufacturers Institute, Schaumburg, Illinois, USA	*Associate*
G. West	Winnipeg, Manitoba *Consumer Representative*	
C. Wrigley-Thomas	Canadian Institute of Plumbing and Heating, Toronto, Ontario	*Associate*
A.I. Murra	CSA, Mississauga, Ontario	*Project Manager*

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.*

(4) *CSA Standards are subject to periodic review, and suggestions for their improvement will be referred to the appropriate committee.*

(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

(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) 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.*

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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