



ASME A112.18.2-2020/ CSA B125.2:20

National Standard of Canada
American National Standard



Plumbing waste fittings



Standards Council of Canada
Conseil canadien des normes

Legal Notice for Harmonized Standard Jointly Developed by ASME and CSA Group

Intellectual property rights and ownership

As between American Society of Mechanical Engineers (“ASME”) and Canadian Standards Association (Operating as “CSA Group”) (collectively “ASME and CSA Group”) and the users of this document (whether it be in printed or electronic form), ASME and CSA Group are the joint owners of all works contained herein that are protected by copyright, all trade-marks (except as otherwise noted to the contrary), and all inventions and trade secrets that may be contained in this document, whether or not such inventions and trade secrets are protected by patents and applications for patents. The unauthorized use, modification, copying, or disclosure of this document may violate laws that protect the intellectual property of ASME and CSA Group and may give rise to a right in ASME and CSA Group to seek legal redress for such use, modification, copying, or disclosure. ASME and CSA Group reserve all intellectual property rights in this document.

Disclaimer and exclusion of liability

This document is provided without any representations, warranties, or conditions of any kind, express or implied, including, without limitation, implied warranties or conditions concerning this document’s fitness for a particular purpose or use, its merchantability, or its non-infringement of any third party’s intellectual property rights. ASME and CSA Group do not warrant the accuracy, completeness, or currency of any of the information published in this document. ASME and CSA Group make no representations or warranties regarding this document’s compliance with any applicable statute, rule, or regulation.

IN NO EVENT SHALL ASME AND CSA GROUP, THEIR RESPECTIVE VOLUNTEERS, MEMBERS, SUBSIDIARIES, OR AFFILIATED COMPANIES, OR THEIR EMPLOYEES, DIRECTORS, OR OFFICERS, BE LIABLE FOR ANY DIRECT, INDIRECT, OR INCIDENTAL DAMAGES, INJURY, LOSS, COSTS, OR EXPENSES, HOWSOEVER CAUSED, INCLUDING BUT NOT LIMITED TO SPECIAL OR CONSEQUENTIAL DAMAGES, LOST REVENUE, BUSINESS INTERRUPTION, LOST OR DAMAGED DATA, OR ANY OTHER COMMERCIAL OR ECONOMIC LOSS, WHETHER BASED IN CONTRACT, TORT (INCLUDING NEGLIGENCE), OR ANY OTHER THEORY OF LIABILITY, ARISING OUT OF OR RESULTING FROM ACCESS TO OR POSSESSION OR USE OF THIS DOCUMENT, EVEN IF ASME OR CSA GROUP HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, INJURY, LOSS, COSTS, OR EXPENSES.

In publishing and making this document available, ASME and CSA Group are not undertaking to render professional or other services for or on behalf of any person or entity or to perform any duty owed by any person or entity to another person or entity. The information in this document is directed to those who have the appropriate degree of experience to use and apply its contents, and ASME and CSA Group accept no responsibility whatsoever arising in any way from any and all use of or reliance on the information contained in this document.

ASME and CSA Group have no power, nor do they undertake, to enforce compliance with the contents of the standards or other documents they jointly publish.

Authorized use of this document

This document is being provided by ASME and CSA Group for informational and non-commercial use only. The user of this document is authorized to do only the following:

If this document is in electronic form:

- load this document onto a computer for the sole purpose of reviewing it;
- search and browse this document; and
- print this document if it is in PDF format.

Limited copies of this document in print or paper form may be distributed only to persons who are authorized by ASME and CSA Group to have such copies, and only if this Legal Notice appears on each such copy.

In addition, users may not and may not permit others to

- alter this document in any way or remove this Legal Notice from the attached standard;
- sell this document without authorization from ASME and CSA Group; or
- make an electronic copy of this document.

If you do not agree with any of the terms and conditions contained in this Legal Notice, you may not load or use this document or make any copies of the contents hereof, and if you do make such copies, you are required to destroy them immediately. Use of this document constitutes your acceptance of the terms and conditions of this Legal Notice.



ASME/CSA Standard

ASME A112.18.2-2020/CSA B125.2:20 Plumbing waste fittings



®A trademark of the Canadian Standards Association and CSA America Inc., operating as "CSA Group"

*Published in June 2020 by CSA Group
A not-for-profit private sector organization
178 Rexdale Boulevard, Toronto, Ontario, Canada M9W 1R3
1-800-463-6727 • 416-747-4044*

Visit the CSA Group Online Store at store.csagroup.org

*The American Society of Mechanical Engineers (ASME)
Two Park Avenue
New York, NY 10016-5990, USA
1-800-843-2763*

Visit the ASME Online Store at www.asme.org

Commitment for Amendments

This Standard is issued jointly by the American Society of Mechanical Engineers (ASME) and the Canadian Standards Association (Operating as “CSA Group”). Amendments to this Standard will be made only after processing according to the Standards writing procedures of both ASME and CSA Group.

The American Society of Mechanical Engineers (ASME)
Two Park Avenue
New York, NY 10016-5990
USA
1-800-843-2763
Visit the ASME Online Store at
www.asme.org

ISBN 978-0-7918-7367-0

Copyright © 2020 by The American Society of Mechanical Engineers (ASME)

This Standard is available for public review on a continuous basis. This provides an opportunity for additional public input from industry, academia, regulatory agencies, and the public at large.

Published in April 2020 by
CSA Group
A not-for-profit private sector organization
178 Rexdale Boulevard
Toronto, Ontario, Canada
M9W 1R3
1-800-463-6727 or 416-747-4044
Visit the CSA Group Online Store at
store.csagroup.org

ISBN 978-1-4883-2644-8

ICS 23.040

© 2020 Canadian Standards Association

All rights reserved. No part of this publication may be reproduced in any form whatsoever without the prior permission of the publisher.

Contents

ASME A112 Standards Committee on Plumbing Materials and Equipment	4
ASME A112.18.2 Project Team on Fixture Waste Fittings	8
CSA Technical Committee on Plumbing Fixtures	11
CSA Harmonization Task Group on Plumbing Fittings	17
Preface	21
1 Scope	23
2 Reference publications	24
3 Definitions and abbreviations	25
3.1 Definitions	25
3.2 Abbreviations	27
4 General requirements	27
4.1 Materials	27
4.1.1 General	27
4.1.2 All waste fittings	27
4.1.3 Plastic tubular waste fittings	27
4.1.4 Plastic pipe and pipe fittings	28
4.1.5 Copper alloys	28
4.1.6 Cast iron	28
4.1.7 Ductile iron	28
4.1.8 Stainless steel	28
4.1.9 Elastomeric fittings	28
4.2 Installation	28
4.2.1 Connection to waste system	28
4.2.2 Protection of finish	29
4.2.3 Fixture seal	29
4.3 Threads	29
4.3.1 DWV plastic pipe and fittings	29
4.3.2 Metallic pipes and fittings	29
4.3.3 Compression and union nuts	29
4.3.4 Tapped bosses	29
4.4 Solder connections	29
4.5 Replacement parts	29
4.5.1 Use of standard tools	29
4.5.2 Replacement part design	29
4.6 Dimensions	30
4.6.1 Outlet size	30
4.6.2 Slip joints	30
4.6.3 Wall thickness	30
4.6.4 Sink strainer assemblies	30

4.6.5	Traps	31
4.6.6	Tubing stops	31
4.6.7	Subdrains for built-up shower pans	31
4.6.8	Grey water diverters	32
4.7	Mechanical stoppers	32
4.8	Additional requirements for linear shower drains	32
5	Performance requirements and test procedures	33
5.1	General	33
5.1.1	Preconditioning	33
5.1.2	Installation for testing	33
5.1.3	Testing sequence	33
5.2	Corrosion	33
5.2.1	Performance requirements	33
5.2.2	Test procedure	34
5.3	Thermal cycling	34
5.3.1	Performance requirements	34
5.3.2	Test procedure	34
5.4	Coatings	35
5.5	Shower drain strainers	35
5.5.1	Performance requirements	35
5.5.2	Load test procedure	35
5.6	Sink strainer assemblies	35
5.6.1	Performance requirements	35
5.6.2	Hot oil exposure	35
5.6.3	Water absorption	36
5.6.4	Point impact	36
5.7	Body and clamping rings of subdrains for built-up shower pans	36
5.8	Minimum flow rate	37
5.8.1	Performance requirements	37
5.8.2	Test procedure	37
5.8.3	Grey water diverters	37
5.9	Strength	37
5.9.1	Thread torque strength	37
5.9.2	Hydrostatic pressure	38
5.10	Life cycle	38
5.10.1	Performance requirements	38
5.10.2	Test procedure	38
5.11	Seals leakage	38
5.11.1	Waste fittings for drainage flow control	38
5.11.2	Other waste fittings	39
5.12	Leakage test for the seam between the bonding flange and membrane	39
5.12.1	Performance requirements	39
5.12.2	Test procedures	39
6	Markings, packaging, and installation instructions	39
6.1	General	39
6.2	Packaging	40
6.3	Instructions for elastomeric waste fittings	40

6.4	Grey water diverters	40
6.4.1	Markings	40
6.4.2	Instructions	40

Annex A (informative)	— Unit conversion and rounding criteria	53
-----------------------	---	----