IAPMO/ANSI/CAN Z1117-2022

Standard for

Press Connections

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Preface

This is the first edition of IAPMO/ANSI/CAN Z1117, Press Connections. This Standard supersedes IAPMO PS 117-2019, *Press Connections*.

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

This Standard was developed by the IAPMO Z1117 Technical Subcommittee and approved by the IAPMO Plumbing Standards Committee in accordance with the *ANSI Essential Requirements: Due process requirements for American National Standards*, *IAPMO Policies and Procedures for Consensus Development of American National Standards, SCC Requirements and Guidance - Accreditation of Standards Development Organizations,* and *IAPMO Policies and Procedures for Development of National Standards of Canada*. This Standard was approved as an American National Standard on April 21, 2022, and as a National Standard of Canada on April 19, 2022.

Notes:

(1) The use of the singular does not exclude the plural (and vice versa) when the sense allows.

(2) This standard was developed in accordance with the IAPMO procedures accredited as meeting the criteria for American National Standards and as a National Standard of Canada. The IAPMO Standards Committee that approved this Standard was balanced to assure that individuals from competent and concerned interests had an opportunity to participate. During its development, this Standard was made available for public review, thus providing an opportunity for additional input from industry, academia, regulatory agencies, and the public at large.

(3) This Standard was developed by consensus, which is defined as substantial agreement; consensus implies much more than a simple majority, but not necessarily unanimity. It is consistent with this definition that a member of the relevant IAPMO Standards Committee can be included in the committee roster and yet not be in full agreement with all sections of this Standard.

(4) 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.

(5) The significant portion of the subject matter in this standard can be grouped in the International Classification for Standards (ICS 23.040.60, Flanges, couplings and joints)

(6) IAPMO Standards are subject to periodic review at a maximum of 4 years from the date of approval. Suggestions for their improvement will be referred to the relevant IAPMO Standards Committee. To submit a proposal for change to this Standard, you may send the following information to the International Association of Plumbing and Mechanical Officials, Attention Standards Department, at standards@IAPMOstandards.org or, alternatively, at 4755 East Philadelphia Street, Ontario, California, 91761, and include "Proposal for change" in the subject line:

(a) standard designation (number);

(b) relevant section, table, or figure number, as applicable;

(c) wording of the proposed change, tracking the changes between the original and the proposed wording; and

(d) rationale for the change.

(7) Requests for interpretation should be clear and unambiguous. To submit a request for interpretation of this Standard, you may send the following information to the International Association of Plumbing and Mechanical Officials, Attention Standards Department, at standards@IAPMOstandards.org or, alternatively, at 4755 East Philadelphia Street, Ontario, California, 91761, and include "Request for interpretation" in the subject line:

(a) the edition of the standard for which the interpretation is being requested;

(b) the definition of the problem, making reference to the specific section and, when appropriate, an illustrative sketch explaining the question;

(c) an explanation of circumstances surrounding the actual field conditions; and

(d) the request for interpretation phrased in such a way that a "yes" or "no" answer will address the issue.

(8) Interpretations are processed in accordance with IAPMO's accredited standards development procedures. IAPMO issues written replies to inquiries concerning interpretation of technical aspects of this Standard.

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IAPMO/ANSI/CAN Z1117-2022
Press Connections

1 Scope

1.1 Scope

1.1.1 This Standard covers press connections made with:
(a) copper or copper alloy fittings and Type K, L, and M copper tube;
(b) carbon steel fittings and Schedule 10 and 40 carbon steel pipe;
(c) stainless steel fittings and Schedule 5, 10, and 40 stainless steel pipe; or
(d) stainless steel fittings and stainless steel pipe complying with the dimensions specified in Table 1.

1.1.2 This Standard specifies requirements for materials, physical characteristics, performance testing, and markings.

1.1.3 Products covered by this standard include fittings, tube, and pipe with press connection ends combined with other types of connections (e.g., threaded, soldered, and push-fit).

1.1.4 Carbon steel fittings and pipe covered by this standard are not intended to be used in potable water supply systems.

1.2 Alternate Materials

The requirements of this Standard are not intended to prevent the use of alternate materials or methods of construction provided such alternates meet the intent of this Standard.

1.3 Terminology

In this Standard,
(a) “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy to comply with the standard;
(b) “should” is used to express a recommendation, but not a requirement;
(c) “may” is used to express an option or something permissible within the scope of the standard; and
(d) “can” is used to express a possibility or a capability.

Notes accompanying sections of the standard do not specify requirements or alternative requirements; their purpose is to separate explanatory or informative material from the text. Notes to tables and figures are considered part of the table or figure and can be written as requirements.