

# IAPMO/ANSI Z1088-2019<sup>e1</sup>

## Pre-Pressurized Water Expansion Tanks



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# Preface

This is the second edition of IAPMO/ANSI Z1088, *Pre-Pressurized Water Expansion Tanks*. This Standard supersedes IAPMO/ANSI Z1088-2013, *Pre-Pressurized Water Expansion Tanks*.

This Standard was developed by the IAPMO Z1088 Technical Subcommittee and approved by the IAPMO Plumbing Standards Committee in accordance with the *ANSI Essential Requirements: Due process requirements for American National Standards* and the *IAPMO Policies and Procedures for Consensus Development of American National Standards*. This Standard was approved as an American National Standard on May 24, 2019.

This Standard was originally approved in May 2019 and editorially revised in August 2019 (Title to include ANSI).

## 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 it is an American National Standard. 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.*
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  - (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*
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  - (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;*
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  - (d) *the request for interpretation phrased in such a way that a "yes" or "no" answer will address the issue.*
- (7) *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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- (11) Participation by federal or state agency representative(s) or person(s) affiliated with industry is not to be interpreted as government or industry endorsement of this Standard.*

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# *IAPMO/ANSI Z1088-2019<sup>e1</sup>*

## ***Pre-Pressurized Water Expansion Tanks***

### **1 Scope**

#### **1.1 Scope**

This Standard covers pre-pressurized water expansion tanks intended for use in potable and non-potable water systems and specifies requirements for physical characteristics, performance testing, and markings.

#### **1.2 Alternative Materials**

The requirements of this Standard are not intended to prevent the use of alternative materials or methods of construction, provided such alternatives meet the intent and requirements 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 either 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.

#### **1.4 Units of Measurement**

SI units are the primary units of record in global commerce. In this Standard, the inch/pound units are shown in parentheses. The values stated in each measurement system are equivalent in application but each unit 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.