

# IAPMO/ANSI Z1157-2014

## Ball Valves



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# Preface

This is the first edition of IAPMO/ANSI Z1157, *Ball Valves*. This Standard supersedes IAPMO IGC 157-2013<sup>e2</sup>, *Ball Valves*.

This Standard was developed by the IAPMO Z1157 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 November 24, 2014.

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- (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.*
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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;*
  - (c) *an explanation of circumstances surrounding the actual field conditions; and*
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# *IAPMO/ANSI Z1157-2014*

## ***Ball Valves***

### **1 Scope**

#### **1.1**

This Standard covers ball valves in sizes NPS-1/8 to NPS-4, with minimum rated working pressures of 860 kPa (125 psi) at 23 °C (73°F), intended for use in water supply and distribution systems and specifies requirements for materials, physical characteristics, performance, testing, and markings.

#### **1.2**

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**

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 from the text explanatory or informative material. Notes to tables and figures are considered part of the table or figure and can be written as requirements.

#### **1.4**

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.

### **2 Reference Publications**

This Standard refers to the following publications, and where such reference is made, it shall be to the current edition of those publications, including all amendments published thereto.

#### **ASME (The American Society of Mechanical Engineers)**

ASME B1.20.1

*Pipe Threads, General Purpose (Inch)*