

IAPMO IGC 226-~~2019~~2026



PUBLIC REVIEW DRAFT

Industry Standard for

**Drinking Water Fountains with or
without Chiller or Heater**



IAPMO Standard

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Drinking Water Fountains with or without Chiller or Heater

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Drinking Water Fountains with or without Chiller or Heater

1 Scope

1.1 General

This Standard -covers drinking water fountains with or without chiller or heater and specifies requirements for materials, physical characteristics, performance testing, and markings.

1.2 Alternative Materials

The requirements of this Standard are not intended to prevent the use of any alternative materials or methods of construction provided any 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 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. All references to gallons are to U.S. gallons.

1.5 Amendments

Proposals for amendments to this Standard will be processed in accordance with the standards-writing procedures of IAPMO.

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.~~

CSA B45.5/ANSI Z124	Plastic Plumbing Fixtures
ASME A112.18.1/CSA B125.1-2024	Plumbing Supply Fittings
ASME A112.18.2/CSA B125.2-2020 (R2025)	Plumbing Waste Fittings
ASME A112.19.1/CSA B45.2-2024	Enamelled cast iron and enamelled steel plumbing fixtures
ASME A112.19.2/CSA B45.1-2024	Ceramic Plumbing Fixtures
ASME A112.19.3/CSA B45.4-2022	Stainless steel plumbing fixtures
ASTM A240/A240M-26	Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
ASTM B26/B26M-25	Aluminum – Alloy Sand Casting
CSA B45.5/ANSI Z124-2022	Plastic Plumbing Fixtures
CSA B45.8/ANSI Z403-2023	Terrazzo, Concrete, Composite Stone, and Natural Stone Plumbing Fixtures
NSF/ANSI 61-2025	Drinking Water System Components – Health Effects
UL 399-2017	Drinking Water Coolers

3 Definitions and Abbreviations

This section is reserved for later use.

4 General Requirements

4.1 Materials

Enamelled cast iron and enamelled steel water fountains shall comply with ASME A112.19.1/CSA B45.2. Ceramic water fountains shall comply with ASME A112.19.2/CSA B45.1. Stainless steel water fountains shall comply with ASME A112.19.3/CSA B45.4.

4.1.1 Bowls

Drinking water fountains covered by this Standard and made of:

- Stainless steel shall be minimum 304 type that complies with ASTM A240.
- Copper or brass alloy shall be at least 56% by weight copper content.
- Terrazzo, granite, marble, composite stone, natural stone, and concrete shall comply with the requirements of Section 4.1.3, Different materials and 4.5.5, Surface finish of CSA B45.8/ANSI Z403.
- Plastic shall comply with the requirements in Section 4.1.4, Different materials of CSA B45.5/ANSI Z124
- Aluminum shall comply with Table 1, Chemical Composition Limits of ASTM B26.

4.2 Coatings

Coated parts shall comply with Section 5.2, Coating of ASME A112.18.1/CSA B125.1 or Section 4.1.3, Coated Parts of CSA B45.5/IAPMO Z124.

4.3 Finishes

The finishes of drinking water fountains and employing:

- (a) Metallic bowls shall comply with the requirements in Section 5.2.2, Corrosion of ASME A112.18.1/CSA B125.1.
- (b) Granite, Terrazzo, Concrete and Marble bowls shall comply with the requirements in Section 5.3, Point Impact Load Test of CSA B45.8/ANSI Z403.
- (c) Plastic bowls shall comply with the requirements in Section 5, Test Requirements of CSA B45.5/ANSI Z124

4.4 Design of Bowl**4.4.1 Bowl Construction**

Drinking fountains shall have an integral bowl with beveled or rounded corners or edges and be designed for minimal splashing of water at the place where the jet falls on the basin. The nozzle head base shall be above the level of the overflow point of bowl rim.

4.4.2 Basin Drain Design

The bowl shall include a basin drain which shall be constructed of a smooth, durable, corrosion-resistant, and impervious material which will continue to be impervious and will retain a smooth, easily cleanable surface under normal use conditions.

4.5 Toxicity

4.5.1 . Materials and components of Drinking water fountains with or without chiller or heater intended to convey or dispense water for human consumption through drinking or cooking shall comply with the applicable requirements of NSF/ANSI 61.

4.5.2 Solders and fluxes in contact with potable water shall not exceed, by mass, 0.2% lead content.

4.6 Fixture Fittings

Drinking fountain fittings shall comply with the applicable requirements of ASME A112.18.1/CSA B125.2. Fixtures shall be permitted to have integral strainers.

4.7 Bubble Nozzle and Guard

The bubbler nozzle and guard shall comply with the requirements in Section SA2, Bubbler Nozzle and Guard of UL 399.

4.8 Air Gap

When provided, the air gap shall comply with the requirements in Section SA3, Air Gap of UL 399.

4.9 Gaskets

The gaskets for enclosures or covers shall comply with the requirements in Section 86, Accelerated Aging Tests on Gaskets, Sealing Compounds, and Adhesives of UL 399.

4.10 Waste Fittings

Waste Fittings shall comply with the applicable requirements of ASME A112.18.2/CSA B125.2.

4.11 Door and Panels

Water fountain door and panels for enclosures shall comply with the requirements in Sections 12.2, Doors and Covers of UL 399.

4.12 Electrical Components

When provided, fountains containing electrical components and cooler and/or heater pump to chill or heat water shall comply with the applicable requirements of UL 399.

5 Testing Requirements**5.1 Stability Test in Free Standing Units.****5.1.1 Test Procedure**

Drinking water units shall be tested in accordance with section 69, Stability Test of UL 399.

5.1.2 Performance Requirements

Drinking water units shall comply with the performance requirements in Section 69.1 of UL 399.

5.2 Static Loading Test.**5.2.1 Test Procedure**

Drinking water units shall be tested in accordance with section 70, Static Load Testing of UL 399.

5.2.2 Performance Requirements

Drinking water units shall comply with the performance requirements in Section 70.1 of UL 399.

5.3 Nozzle Flow Control Test.

The valve or valves provided to control water flow through the nozzle shall comply with Section SA5, Nozzle Flow Control Test of UL 399.

6 Markings and Accompanying Literature**6.1 Markings**

Drinking fountains complying with this Standard shall be marked with the:

- (a) Manufacturer's name or trademark.
- (b) Model number.

6.2 Visibility

Each unit shall be permanently and legibly marked so as to be visible after installation.



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