



**INTERNATIONAL ASSOCIATION OF PLUMBING
AND MECHANICAL OFFICIALS**

**IAPMO GUIDE CRITERIA
FOR
WALL HYDRANTS WITH
ALTERNATE END CONNECTIONS**

IAPMO IGC 267-2011

1. SCOPE AND PURPOSE

- 1.1** This Standard covers wall hydrants with alternate end connections and specifies requirements for materials, physical characteristics, performance tests, and markings.
- 1.2** This Standard supplements the provisions of ASME A112.21.3, ASSE 1019, and ASSE 1053 by covering inlet end connections that are not covered in those standards.
- 1.3** The purpose of this Standard is to enhance health and safety by:
 - (a) specifying acceptable criteria for wall hydrants with alternate end connections to protect health and safety;
 - (b) serving as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors, and users; and
 - (c) promoting understanding regarding materials and manufacturing of wall hydrants with alternate end connections.
- 1.4** 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.
- 1.5** Amendments to this Standard will be made after processing according to 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.

ASME A112.21.3	Hydrants for Utility and Maintenance Use
ASME B16.18	Cast Copper Alloy Solder Joint Pressure Fittings
ASME B16.22	Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings
ASME B16.26	Cast Copper Alloy Fittings for Flared Copper Tubes

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ASSE 1019	Vacuum Breaker Wall Hydrants, Freeze Resistant, Automatic Draining Type
ASSE 1053	Dual Check Backflow Preventer Wall Hydrants – Freeze Resistant Type
ASSE 1061	Removable and Non-Removable Push-Fit Fittings
ASTM F1807	Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-Linked Polyethylene (PEX) Tubing
ASTM F1974	Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe
IAPMO IGC 188	Push Fit Fittings
IAPMO PS 117	Copper and Copper Alloy Tubing System Incorporating Press-Type or Nail-Type Connections

4. GENERAL REQUIRMENTS

4.1 Wall Hydrants

Wall hydrants shall comply with ASME A112.21.3, ASSE 1019, or ASSE 1053, as applicable.

4.2 Inlet End Connections

4.2.1 Press or Crimp Joints

Press or crimp joint connections to copper tubes shall comply with the testing requirements of Sections 5.1.4 (Bending Test) and 5.1.7 (Vibration Test) of IAPMO PS 117.

4.2.2 Push-Fit Fitting Connections

Push-fit fittings connections shall comply with the applicable requirements of ASSE 1061 or IAPMO IGC 188.

4.2.3 Metal Insert Connections

Metal insert connections to PEX tubing shall comply with the requirements of ASTM F1807. Metal insert connections to PE-AL-PE tubing or fittings or PEX-AL-PEX tubing shall comply with the requirements of ASTM F1974.

4.2.4 Soldered Joints

Solder joint ends for connection to copper tube shall comply with the dimensional requirements of ASME B16.18 or ASME B16.22.

4.2.5 Flared Connections

Flared connections to copper tube shall comply with the dimensional requirements of ASME B16.26.

4.2.6 Alternate Connections

Alternate connection methods not specified in this Standard shall be in accordance with a nationally recognized standard.

4.3 Push-Fit Hydrants without Backflow Preventers

Push-fit hydrants without backflow preventers shall comply with ASME A112.21.3.