

American National Standard

ASSE/ANSI 1044-2023



Performance Requirements for
**Trap Seal Primer – Drainage Types
and Electric Design Types**

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Foreword

This foreword shall not be considered a part of the standard. However, it is offered to provide background information.

ASSE standards are developed in the interest of consumer safety. The ASSE Product Standards Committee encourages manufacturers to develop performance requirement standards and testing procedures for their products. These standards have the consensus of the manufacturers and others who have pertinent interests in plumbing systems and are acceptable to this organization.

For many years, the method of priming traps has been with the use of a water supply trap primer, which is activated by flow in the water supply piping. This method of priming utilizes primers that comply with ASSE 1018, *Performance Requirements for Trap Seal Primer Valves – Potable Water Supplied*. This standard addresses alternate methods to ASSE 1018 and addresses trap primers utilizing electric design and drainage-type trap seal primers.

Although many of the material specifications are detailed within Section 5.1 of this standard, it is the responsibility of the manufacturer and the installer to comply with the relevant jurisdictional requirements.

The ASSE 1044 working group, which developed this standard revision, was set up within the framework of the ASSE International Product Standards Committee.

Recognition is made of the time volunteered by members of the working group and of the support of the manufacturers, who also participated in the meetings for this standard.

This standard does not imply ASSE International's endorsement of a product that conforms to these requirements. Compliance with this standard does not imply acceptance by any code body.

It is recommended that these trap seal primers be installed, consistent with local codes, by qualified and trained professionals.

This standard was promulgated in accordance with procedures developed by the American National Standards Institute (ANSI).

2022 Product Standards Committee

Tsan-Liang Su, PhD – Chairman
Stevens Institute of Technology
Hoboken, NJ, USA

Karl Abrahamson
Saint Paul Department of Safety and Inspections
Cottage Grove, MN, USA

John Bertrand
Watts Water Technologies
Cleveland, OH, USA

Julia Briggs
NSF International
Ann Arbor, MI, USA

William Briggs Jr.
TSF Engineering
New York, NY, USA

Terry Burger (non-voting)
ASSE International
Cleveland, OH, USA

William Chapin
Professional Code Consulting, LLC
Cullman, AL, USA

Mark E. Fish
Zurn Industries, LLC
Cary, NC, USA

Fernando Fernandez
Toto USA Inc.
Ontario, CA, USA

Ron George
Plumb-Tech Design & Consulting Services LLC
Newport, MI, USA

Mark Gibeault
Kohler Company
Kohler, WI, USA

Daniel Gleiberman
Sloan Valve Company
Los Angeles, CA, USA

Brandon Gunnell
Precision Plumbing Products
Portland, OR, USA

Chris Haldiman
Watts Water Technologies
Springfield, MO, USA

John F. Higdon, P.E.
Supply Source Products
Matthews, NC, USA

Jim Kendzel
American Supply Association
Itasca, IL, USA

Ramiro Mata
ASPE
Mentor, OH, USA

Bob Neff
Delta Faucet
Pendleton, IN, USA

David Orton
NSF International
Ann Arbor, MI, USA

Thomas Pitcherello
Self
Bordentown, NJ, USA

Daniel Rademacher
Viega, LLC
Butte, MT, USA

Shabbir Rawalpindiwala
Self
Kohler, WI, USA

Billy Smith
ASPE
Montgomery, AL, USA

Chris Wright
Ontario Pipe Trades Council
Dundalk, ON, Canada

Chris White (non-voting)
ASSE International
Mokena, IL, USA

1044 Working Group

Robert Burnham
Zurn Industries, LLC
Erie, PA, USA

Terry Burger (non-voting)
ASSE International
Cleveland, OH, USA

Brandon Gunnell
Precision Plumbing Products
Portland, OR, USA

Mark Fish
Zurn Industries, LLC
Cary, NC, USA

Dan Gleiberman
Sloan Valve Company
Los Angeles, CA, USA

Kevin Hardwick
Precision Plumbing Products
Portland, OR, USA

Ramiro Mata
ASPE
Mentor, OH, USA

Jerry McDanal
Jay R. Smith Mfg. Co.
Montgomery, AL, USA

Anthony Staland
Jay R. Smith Mfg. Co.
Montgomery, AL, USA

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Trap Seal Primer – Drainage Types and Electric Design Types

1.0 General

1.1 Application

Trap seal primers are primarily designed to supply water to floor drain traps that have infrequent use and in which water evaporation would allow sewer gas to enter the premises.

The trap seal primers covered by this standard are designed to supply water to a drain trap to provide and maintain its water seal by using a supply from a fixture drain line, fill valve (ballcock), flushometer valve tailpiece or an electric trap seal primer. The rate of water flow to the trap shall be permitted to be fixed or adjustable.

1.2 Scope

1.2.1 Description

This standard covers trap primers used in conjunction with fill valves and flushometer valves, electrical trap primers and trap primer adapters, and specifies requirements for materials, physical characteristics, performance testing, and markings.

The trap seal primers are of 4 types:

- a) Those that are installed on waste line tail pieces from fixtures, such as lavatories, sinks and similar fixtures where grease is not normally generated;
- b) Those that are used in conjunction with fill valve (ballcock) assemblies;
- c) Those that receive flow from flushometer valves; and
- d) Those electric trap seal primers that discharge water automatically and are upstream of the air gap or vacuum breaker.

1.2.2 Working Pressure

Pressurized trap seal primers covered by this standard are designed for a working water pressure range of 25 to 125 psi (172 to 862 kPa).

1.2.3 Connections

1.2.3.1 Tapered pipe threads shall comply with ASME B1.20.1.

1.2.3.2 Dry seal pipe threads shall comply with ASME B1.20.3.

1.2.3.3 Compression assemblies shall comply with SAE J 512.

1.2.3.4 Solder connection fittings shall comply with ASME B16.18, ASME B16.22, ASME B16.23 or ASME B16.29.

1.3 Reference Standards

- ASME A112.1.2-2022, *Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)*
- ASME B1.20.1-2018, *Pipe Threads, General Purpose (Inch)*
- ASME B1.20.3-1976 (R2018), *Dryseal Pipe Threads (Inch)*
- ASME B16.18-2021, *Cast Copper Alloy Solder Joint Pressure Fittings*
- ASME B16.22-2021, *Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings*
- ASME B16.23-2021, *Cast Copper Alloy Solder Joint Drainage Fittings: DWV*