

American National Standard
ASSE 1030-2021



Performance Requirements for
**Positive Pressure Reduction Devices
for Sanitary Drainage Systems**

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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.

In the interest of consumer safety, this standard was originally issued in October 2009; accepted by the American National Standards Institute (ANSI) in 2010 and revised in 2013 and 2016.

ASSE International considers product performance standards to be of great value in the development of improved plumbing systems.

A positive air pressure reduction device for sanitary drainage systems is a device specifically designed to protect water trap seals against unwanted positive pressure transients in sanitary drainage systems.

The ASSE 1030 working group, which developed this standard, 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 manufacturers, who also participated in 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 devices 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).

2020 Product Standards Committee

Tsan-Liang Su, PhD, Chairperson

*Stevens Institute of Technology
Hoboken, NJ*

Karl Abrahamson

*Saint Paul Department of Safety and
Inspections
Cottage Grove, MN*

Brian Andersen

*Plumbers' JAC LU130
Chicago, IL*

William Briggs Jr.

*MGJ Associates
New York, NY*

Terry Burger (non-voting)

*ASSE International
Cleveland, OH*

William Chapin

*Professional Code Consulting, LLC
Cullman, AL*

Mark E. Fish

*Zurn Industries, LLC
Cary, NC*

Ron George

*Plumb-Tech Design & Consulting Services LLC
Newport, MI*

Mark Gibeault

*Kohler Company
Kohler, WI*

Daniel Gleiberman

*Sloan Valve Company
Los Angeles, CA*

Brandon Gunnell

*Precision Plumbing Products
Portland, OR*

Chris Haldiman

*Watts Water Technologies
Springfield, MO*

John F. Higdon, P.E.

*Supply Source Products
Matthews, NC*

Jim Kendzel

*American Supply Association
Minneapolis, MN*

Ramiro Mata

*American Society of Plumbing
Engineers (ASPE)
Mentor, OH*

Bob Neff

*Delta Faucet
Pendleton, IN*

David Orton

*NSF International
Ann Arbor, MI*

Thomas Pitcherello

*State of New Jersey
Bordentown, NJ*

Daniel Rademacher

*Viega, LLC
Butte, MT*

Shabbir Rawalpindiwala

*Kohler Company
Kohler, WI*

Billy Smith

*American Society of Plumbing
Engineers (ASPE)
Montgomery, AL*

Chris White (non-Voting)

*ASSE International
Mokena, IL*

1030 Working Group

Steven Cole, Chairperson

*IPS Corporation
Collierville, TN*

Steven White

*Studor Incorporated
East Essex
United Kingdom*

Conrad L. Jahrling (non-voting)

*ASSE International
Chicago, IL*

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Performance Requirements for Positive Pressure Reduction Devices for Sanitary Drainage Systems

Section I

1.0 General

1.1 Application

Positive pressure reduction devices (herein referred to as “device”) are to be used in building drainage waste and vent (DWV) systems. They are intended to reduce the impact of short duration air pressure transients that arise in DWV networks through use. They are not intended to have any effect on long duration or steady-state offsets in air pressure.

1.2 Scope

1.2.1 Description

See Figure 1 for a simple arrangement of components. The device consists of a variable volume reservoir contained within a ventilated rigid outer casing with an inlet connection by which the reservoir inflates when subjected to positive pressure. In its inactive state, the flexible reservoir is deflated. Expansion only occurs in response to an increase in line pressure at the entrance to the device. This expansion provides a variable volume reservoir for air. The device connects to the drainage network via an airtight seal to prevent the diversion of airflow from entering the reservoir. As a result, the reservoir becomes an integral part of the drainage network.

Figure 1 — Components

