

American National Standard

ASSE 1020-2020



Performance Requirements for **Pressure Vacuum Breaker Assemblies**

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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 International standards are developed in the interest of consumer safety. ASSE considers product performance standards to be of great value in the development of improved plumbing systems.

The working group that developed this standard was set up within the framework of the ASSE International Product Standards.

This standard was approved by the Product Standards Committee to extend the ASSE portfolio of standards for backpressure and backsiphonage backflow prevention devices for pipe applied vacuum breakers.

For pipe applied service conditions in water supply lines, there are two recognized basic conditions for which vacuum breakers, anti-siphon type, are needed. These two classifications are atmospheric and pressure type. In one instance, the device is under pressure only when there is a demand for water in the equipment being served. The atmospheric type of device is recommended when the service line is under pressure only for short periods of time.

For service conditions where the pressure in the service line must be continuous, a vacuum breaker must be constructed with built-in means to mechanically force the atmospheric air inlet valve to open should a negative pressure (vacuum) be created in the supply line. For this class of service, a "pressure type" device is recommended for use.

ASSE 1020 was originally titled *Vacuum Breakers, Anti-Siphon, Pressure Type* and was approved by the ASSE Product Standards Committee, received the concurrence of the ASSE Board of Directors, and was issued as an official ASSE standard in November 1974. During its revision in 1989, the title was changed to *Pressure Vacuum Breaker Assembly*. This change also included a recommendation for outdoor usage of the assembly.

Recognition is made of the time volunteered by members of this 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 the ASSE Procedures for Standards Development as approved by the American National Standards Institute (ANSI).