



**Summary of Substantive Changes  
between the 2016 and the 2019 editions of  
NSF/ANSI 4 “Commercial Cooking, Rethermalization, and Powered Hot Food  
Holding and Transportation Equipment”**

**Presented to the IAPMO Standards Review Committee on October 16, 2020**

**General:** The changes to this standard should not impact currently listed products. The substantive change is:

- Added an air gap as an acceptable option for backflow prevention in units intended for water supply connection (see Section 5.31.4.1)

Section 2, Normative references: References were updated as follows:

*IEEE/ASTM SI 10 – ~~2010~~ [2016](#), American National Standard for Metric Practice*

Section 5.31.4, Backflow prevention: Added an air gap as an acceptable option for backflow prevention as follows:

**5.31.4.1** *Units intended to be connected to a water supply system under pressure shall have one of the following:*

- *[an air gap at least twice the diameter of the water supply inlet but not less than 1.0 in \(25 mm\); or](#)*
- *a vacuum breaker that conforms to ANSI/ASSE 1001, Performance Requirements for Atmospheric Type Vacuum Breakers<sup>8</sup> (for intermittent pressure conditions); [or](#)*
- *a vacuum breaker that conforms to ANSI/ASSE 1020, Performance Requirements for Pressure Vacuum Breaker Assembly<sup>8</sup> (for continuous pressure conditions); [or](#)*
- *a backflow prevention device that conforms to ANSI/ASSE 1022, Performance Requirements for Backflow Preventer for Beverage Dispensing Equipment;<sup>8</sup> [or](#)*
- *a backflow prevention device that conforms to ANSI/ASSE 1024, Performance Requirements for Dual Check Backflow Preventers;<sup>8</sup> [or](#)*
- *a backflow prevention device that conforms to ASSE 1032, Performance Requirements for Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers – Post Mix Type;<sup>8</sup> [or](#)*
- *a statement in the installation instruction and on a label permanently affixed to the equipment that clearly indicates that the equipment is to be installed with adequate backflow protection to comply with applicable federal, state, and local codes.*

Annexes: The Annexes were changed from alpha characters to numeric, preceded by a ‘Normative’ or ‘Informative’.