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ASSE International

Performance Requirements for

Backflow Preventer for Beverage Dispensing Equipment

An American National Standard

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Foreword

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

The need for this standard arose from numerous requests by regulatory authorities, manufacturers of backflow prevention devices, consumers, and users of beverage dispensing equipment.

Concerns have been raised that a dual check valve alone will not show any visible indication of failure. ASSE Standard #1022, *Performance Requirements for Backflow Preventer for Beverage Dispensing Equipment*, includes two check valves and an atmospheric vent. If there is failure of the downstream check and the backpressure exceeds the supply pressure, the vent will discharge, giving a visual indication of the check valve's failure.

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

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

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Performance Requirements for Backflow Preventer for Beverage Dispensing Equipment

Section I

1.0 General

1.1 Application

Backflow Preventer for Beverage Dispensing Equipment (herein referred to as “device”) is engineered for installation in carbonated post-mix dispensing systems. This standard covers a backflow prevention device designed to protect the potable water supply serving beverage dispensing equipment. These devices are intended for use under continuous or intermittent pressure conditions.

1.2 Scope

1.2.1 Description

These devices shall consist of two independently acting check valves biased to a normally closed position. An atmospheric port shall be located between the check valves and shall be biased to a normally open position. The port shall vent liquids, gases, or both, under backflow conditions.

1.2.2 Minimum Flow

The device shall meet the minimum flow capacity as described in Table 1.

Table 1

Device Type	Minimum Flow Rate at a Maximum Pressure Drop of 15.0 psi (103.4 kPa)	
	GPM	L/s
A	1.00	0.06
B	2.00	0.13
C	3.00	0.19

Type indicates the flow capacity of the device and not the connection size of the device.

1.2.3 Inlet and Outlet Connections

Inlet and outlet connections shall include 1/4” (8 DN), 3/8” (10 DN), and 1/2” (15 DN) nominal pipe size.

1.2.4 Pressure Range

These devices shall function properly over the pressure range of 10.0 psi to 200.0 psi (68.9 kPa to 1379 kPa).

1.2.5 Temperature Range

These devices shall function properly over the temperature range of 40.0 °F to 130.0 °F (4.4 °C to 54.44 °C).