

ASSE/IAPMO/ANSI/CAN 1055-2023



Performance Requirements for Chemical Dispensers with Integral Backflow Protection

ANSI Approved: May 2023
SCC Approved: July 2023
ICS Codes: 23 060 99



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National Standard of Canada

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THIS NATIONAL STANDARD OF CANADA IS AVAILABLE IN BOTH FRENCH AND ENGLISH.

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ASSE FOREWORD

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

The American Society of Sanitary Engineering is dedicated to the preservation of public health and safety through “Prevention Rather than Cure.”

Prevention of contamination or pollution of potable water in plumbing systems is one of the major objectives of the Society’s Standards Program, which is addressed to the development and promulgation of Standards embracing performance criteria.

In industrial and institutional cleaning operations it is desirable and convenient to dispense cleaning solutions derived from potable water and concentrated products. A dispensing device connected to potable supply constitutes a cross connection which could be a source of contamination to the potable water. Devices providing this function often contain features which are intended to prevent this contamination. This standard identifies accepted methods of backflow protection as well as test methods for evaluating backflow systems incorporated into a chemical dispensing system.

Many chemical dispensing systems utilize a means of backflow protection known as an elastomer gap. This device is a backflow preventer with integral air inlet valve behaving similarly to a pressure vacuum breaker (PVB). As such, the appropriate tests from ASSE 1020 and the CSA B64 series have been integrated into the 2020 revision for further rigor.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was developed by the ASSE 1055 Technical Subcommittee. This standard was approved by the ASSE Product Standards Committee in accordance with the ANSI Essential Requirements: Due process requirements for American National Standards and the ASSE Product Standards Committee in accordance with SCC Requirements and Guidance - Accreditation of Standards Development Organizations and IAPMO/ASSE Policies and Procedures for Development of National Standards of Canada. This Standard was approved as an American National Standard on May 26, 2023 and as a National Standard of Canada on July 17, 2023.

Although the intended primary application of this Standard is stated in its scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.

The significant portion of the subject matter in this standard can be grouped in the International Classification for Standards (ICS 23.060.99 Valves: Other valves)

ASSE/IAPMO Standards are subject to periodic review at a minimum of 4 years from date of approval. Suggestions for their improvement will be referred to the relevant ASSE/IAPMO Standards Committee. To submit a proposal for change to this Standard, you may send the following information to the International Association of Plumbing and Mechanical Officials, Attention Standards Department, at standards@IAPMOstandards.org or, alternatively, at 4755 East Philadelphia Street, Ontario, California, 91761, and include “Proposal for change” in the subject line:

- (a) standard designation (number);
- (b) relevant section, table, or figure number, as applicable;
- (c) wording of the proposed change, tracking the changes between the original and the proposed wording; and
- (d) rationale for the change.

The 2023 revision corrects errors found in sections 3.4, 3.5, and 3.7 of the previous edition. The errors were reviewed through an interpretation request and corrected language was approved by the ASSE Product Standards Committee. As there was no working group, the 2020 Working group is still referenced to capture those who contributed to the current technical content.

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

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

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

The revision of the standard was approved by the ASSE Board of Directors on February 3, 2023, as an ASSE Standard.

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