Service-Line Valves and Fittings for Drinking Water Systems
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**This Standard Practice has been substantively revised from the previous 2014 edition. It is suggested that if the user is interested in knowing what changes have been made, that a direct page by page comparison should be made of this document and that of the previous edition.**

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FOREWORD

In the mid 1990’s, the Manufacturers Standardization Society was requested to develop a Standard Practice for line valves and assigned this as a project to the MSS Committee 112, Water Works Valves and Fittings. Many of the significant components of service-lines for drinking water systems have not been specifically covered by standards. The MSS Committee 112 decided to fill this need in the water works industry by creating this Standard Practice, which has a broader scope than previous drinking water service line standards. However, the tubing, pipe, water main, water meter, and machines associated with drinking water service-lines are not covered by this Standard Practice.

The 2003 version was substantially revised from the original 1996 version.

The 2011 version was substantially updated and revised from the 2003 version; including an update of Sections 2, 4, 9, multiple Tables, and Annex A.

The 2014 version included minor editing of the text, formatting adjustments, the addition of several new definitions in Section 2, approved revisions to Sections 1, 5, 6, and 9, errata corrections in Table 10 through 13, the movement of the optional field testing instructions in Section 6 from the body of the Standard Practice to the Appendix, and updating of references in Annex A.

This 2019 version is substantially revised for accuracy with other industry standards and nomenclature. It incorporates additional materials in Section 4, the option of pneumatic testing in Section 6, approved revisions in Sections 3, 4, 5, and 9, updating references in Annex A, and various editorial or formatting updates.

WARNING: All valves and fittings that are produced in compliance with this Standard Practice and anticipated for drinkable (potable) water service must comply with the U.S. Federal Safe Drinking Water Act (SDWA), as Amended, and other federal, state and provincial, and local regulations as applicable.

NOTE: There are different protocols to show compliance with the SDWA (as Amended), including NSF 372.
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MSS Standard Practices (SPs) related to or referenced in this publication:

- **ANSI/MSS SP-25**
  - Standard Marking System for Valves, Fittings, Flanges, and Unions

- **MSS SP-80**
  - Bronze Gate, Globe, Angle, and Check Valves

- **MSS SP-86**
  - Guidelines for Metric Data in Standards for Valves, Flanges, Fittings, and Actuators

- **ANSI/MSS SP-96**
  - Terminology for Valves, Fittings, and Their Related Components

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American National Standards Published by MSS, an ANSI-accredited Standards Developer:

- **ANSI/MSS SP-25**
  - Standard Marking System for Valves, Fittings, Flanges, and Unions

- **ANSI/MSS SP-44**
  - Steel Pipeline Flanges

- **ANSI/MSS SP-55**
  - Quality Standard for Steel Castings for Valves, Flanges, Fittings, and Other Piping Components
  - Visual Method for Evaluation of Surface Irregularities

- **ANSI/MSS SP-58**
  - Pipe Hangers and Supports – Materials, Design, Manufacture, Selection, Application, and Installation

- **ANSI/MSS SP-96**
  - Terminology for Valves, Fittings, and Their Related Components

- **ANSI/MSS SP-114**
  - Corrosion Resistant Pipe Fittings Threaded and Socket Welding Class 150 and 1000

- **ANSI/MSS SP-122**
  - Plastic Industrial Ball Valves

- **ANSI/MSS SP-134**
  - Valves for Cryogenic Service, including Requirements for Body/Bonnet Extensions

- **ANSI/MSS SP-135**
  - High Pressure Knife Gate Valves

- **ANSI/MSS SP-138**
  - Quality Standard Practice for Oxygen Cleaning of Valves and Fittings

- **ANSI/MSS SP-144**
  - Pressure Seal Bonnet Valves

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The Manufacturers Standardization Society (MSS) of the Valve and Fittings Industry is a non-profit technical association organized for development and improvement of industry, national and international codes and standards for Valves, Valve Actuators, Valve Modifications, Pipe Fittings, Flanges, Pipe Hangers and Supports, and Associated Seals. Since its establishment in 1924, MSS has been dedicated to developing standards for national and global applications, in cooperation with other standardizing bodies and regulatory authorities. **MSS is an American National Standards Institute (ANSI)-accredited standards developer.**

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Manufacturers Standardization Society of the Valve and Fittings Industry, Inc.
127 Park Street, NE, Vienna, VA 22180-4620 • Phone (703) 281-6613 • Fax (703) 281-6671

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