ANSI/MSS SP-25-2018

Standard Marking System for Valves, Fittings, Flanges, and Unions
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U.S. customary units in this Standard Practice are the standard; the SI (metric) units are for reference only.

This Standard Practice has been substantively revised from the previous 2013 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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The original publication of the Standard Marking System was developed by MSS in 1934. It stated the basic rules but was considered to need more details for general use. A second edition was therefore prepared with additional details and examples and was published in 1936.

The third edition, published in 1954, recognized the use of new materials, increased operating temperatures and pressures, and added more examples of markings for regular products.

In 1958, the fourth edition incorporated relatively minor changes and updates; including some additional marking examples.

For the fifth edition, published in 1960, the format was revised to permit the use of nameplates on valve bodies. In addition, this version added requirements for the marking of ductile iron products.

The sixth edition, published in 1964, broadened the scope of this marking standard and revised the examples and sections of the text to reflect changes in piping requirements.

The seventh edition, published in 1978, was substantially revised and re-written to simplify its cross references and to improve readability. This edition incorporated the marking features of pressure-temperature marking designations contained in existing American National Standards involving products and materials. It was also rearranged so that the General Rules were stated in Sections 1 through 11 and amplified in Sections 12 through 18; which gave specific rules and examples of marking requirements relating to various products and materials.

In 1993, the eighth edition incorporated relatively minor changes and updates; including minor revisions required to harmonize this document with then-current MSS Standard Practices.

The tenth edition, published in 2008, included revisions to ASME B16.34 example markings and mandatory MSS conformance markings, in addition to clarifications of other general requirements.

The eleventh edition, published in 2013, included new Annexes for Reference Tables and Marking Requirement Examples, the addition of laser marking techniques and country of origin marking, substantial revision and re-formatting to update the document text and tables, and other revisions to provide clarification as warranted. The 2013 edition was also approved as an American National Standard.

With this twelfth edition, published in 2018, SP-25 observes over 83 years of providing the industry with standardized marking guidance. This twelfth edition includes a new section involving products with rating designations which are constant throughout a specified temperature range; revised requirements involving the marking of a manufacturer’s name, trademark, logo, or symbol; revised two material designation subsections involving standard references for marking nameplates and bodies; updated Tables 1 and 2 involving examples of common symbols for metallic/non-metallic materials; updated terminology; included supplemental material designations (e.g., Bismuth, Bismuth-Selenium, and Silicon) for certain non-ferrous flanges, flanged fittings, and flanged unions; updated Annex B to include many revised and new examples; updated and revised Annex C references; and other revisions to provide clarification as warranted. It was also agreed for the next revision to consider markings for MSS SP-44 flanges and ASME B16.36 orifice flanges. This 2018 revised American National Standard edition was ANSI-approved after being substantively revised, reformatted, and approved by MSS, then submitted unpublished to the ANSI balloting and approval process.
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