Class 150 Corrosion Resistant Gate, Globe, Angle, and Check Valves with Flanged and Butt Weld Ends

Standard Practice
Developed and Approved by the
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This MSS Standard Practice was developed under the consensus of the MSS Technical Committee 114 and the MSS Coordinating Committee. The content of this Standard Practice is the result of the efforts of competent and concerned volunteers to provide an effective, clear, and non-exclusive specification that will benefit the industry as a whole. This MSS Standard Practice is intended as a basis for common practice by the manufacturer, the user, and the general public. The existence of an MSS Standard Practice does not in itself preclude the manufacture, sale, or use of products not conforming to the Standard Practice. Mandatory conformance is established only by reference in a code, specification, sales contract, or public law, as applicable.

This document has been substantively revised from the previous 1999 edition. It is suggested that if the user is interested in knowing what changes have been made, direct page by page comparison should be made of this document.

Unless otherwise specifically noted in this MSS SP, any standard referred to herein is identified by the date of issue that was applicable to the referenced standard(s) at the date of issue of this MSS SP. (See Annex B.)

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1. SCOPE

1.1 This Standard Practice is intended to provide a vehicle for the standardization, to the extent indicated, of those features of the valves covered herein. The valves are made from corrosion resistant alloys whose properties are uniquely suited to the service into which they are placed. Chemical process and cryogenic fluid service constitute two such applications.

1.2 This Standard Practice covers corrosion resistant alloy gate, globe, angle and check valves conforming to ASME B16.34 with flanged and butt weld ends with pressure containing parts made from the alloys listed herein or in ASME B16.34.

1.3 ***Valve Types and Sizes***

1.3.1 ***Types*** The following valve types are covered herein and are illustrated in Figures 1 through 8 in Annex A. [a]

a) Gates, outside screw and yoke design (OS&Y).
b) Globes, T, Y-pattern and angle, outside screw and yoke (OS&Y).
c) Checks, lift, swing and Y-pattern.

1.3.2 ***Nominal Pipe Sizes***

a) 1/4≤NPS≤24 (8≤DN≤600) gate valves.
b) 1/4≤NPS≤24 (8≤DN≤600) globe and angle valves.
c) 1/2≤NPS≤24 (15≤DN≤600) Y-pattern globe valves.
d) 1/4≤NPS≤24 (8 ≤ DN≤600) lift check valves.
e) 1/2≤NPS≤24 (15≤DN≤600) swing check valves.

2. STANDARD UNITS

The valves stated in either U.S. customary units or metric units are to be regarded separately as the standard. Within the text, the metric units are shown in parentheses. The values stated in each system are not exact equivalents; therefore, each system must be used independently of the other. Combining valves from the two systems may result in nonconformance with this Standard Practice.

3. MATERIALS

3.1 ***General*** The specific body, bonnet or cover plate and bolting material shall be produced in accordance with the applicable ASTM Specification listed herein or in materials group 2, 3, or 4 of ASME B16.34. Users are cautioned against applications with fluid which may react harmfully with any materials used in these valves. Consultation with the manufacturer is advised to determine suitability in cases of doubt.

[a] The valve sketches in Annex A are for the purpose of illustration and nomenclature only. They do not represent any manufacturer's product.