

Gray Iron  
Swing Check Valves,  
Flanged and Threaded Ends

Standard Practice  
Developed and Approved by the  
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Substantive changes in this 2018 edition are “flagged” by parallel bars as shown on the margins of this paragraph. The specific detail of the change may be determined by comparing the material flagged with that in the previous 2011 edition.

Non-toleranced dimensions in this Standard Practice are nominal unless otherwise specified.

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## FOREWORD

The 1997 edition of MSS SP-71, in addition to various editorial changes, includes changes to: 1) provide a more complete metric version for reference use; 2) delete the Class 800 Pressure-Temperature rating; and 3) expand Annex C to include ISO references.

The 2005 edition of MSS SP-71 added minimum wall requirements that were previously omitted. The addition of the minimum wall thickness requirements were necessary to qualify the valves for Class 125 and Class 250 pressure-temperature designation/rating as defined in ASME B16.1 and Table 1 of this MSS Standard Practice. This edition also deleted the PN designations, which were easily confused with designations in international standards that are based on other material specifications and pressure-temperature rating procedures. ISO references were deleted from Annex C.

The 2011 edition of MSS SP-71, in addition to various editorial and formatting updates, clarifies the leakage rate in Section 7.4 and updates the organizations and references in Annex C.

This 2018 edition of MSS SP-71, in addition to various editorial and formatting updates, includes changes to: (1) increase the flanged-end valve size in Section 2.4(a) to NPS 48 (DN 1200), which also impacted end flange requirements in Section 5.4 regarding Class 125 full and clear waterway valves; (2) remove the previous edition's unintended section on glands (4.1.6) and bolting (4.1.5) as per the 2013 Errata Sheet, which was incorporated into this latest edition; (3) revise Section 5 (Design) closure assembly requirements; (4) update valve-type drawings in Annex; (5) revise Table B1 (now 1M) and update pressure-temperature ratings; (6) include SI (metric) and DN equivalencies; and (7) update the organizations and references in Annex C. The next review period will address inclusion of face-to-face requirements in Section 5.4(b) involving Class 250 Clear Waterway valves among other proposals.

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