



**PIP PNSMV035  
Bronze and Iron  
Check Valve Descriptions**

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## PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

This Practice has been prepared by harmonizing technical requirements from existing standards of major industrial operators, contractors, and standards development organizations. While this Practice is intended to incorporate the majority of requirements, individual applications may have requirements which take precedence over this Practice. Determinations concerning fitness for purpose or application of this Practice to specific project or engineering situations should not be made solely on information contained in this Practice. All Practices are intended to be consistent with applicable laws and regulations. Should this Practice conflict with applicable laws or regulations, such laws or regulations must be followed. Consult an appropriate professional before applying or acting on any material contained in or suggested by this Practice.

Use of trade names should not be viewed as an expression of preference. Other brands having the same specifications are equally correct and may be substituted for those named.

This Practice is subject to revision at any time. For more information refer to PIP ADG001, *Specification for Developing Practices*.

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## PIP PNSMV035 Bronze and Iron Check Valve Descriptions

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## 1. Scope

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This document provides the detailed descriptions for the purchase of bronze and iron check valves included in PIP Piping Material Specifications (PMSs).

## 2. References

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Applicable parts of the following Practice shall be considered an integral part of this Practice. The edition in effect on the date of contract award shall be used, except as otherwise noted. Short titles will be used herein where appropriate.

### 2.1 Process Industry Practices (PIP)

- PIP PNCM0004 - *Valve Tag Number Designator System*

### 2.2 Industry Codes and Standards

- American Petroleum Institute (API)
  - API 594 - *Check Valves: Flanged, Lug, Wafer, and Butt-welding*
- American Society of Mechanical Engineers (ASME)
  - ASME B1.20.1 - *Pipe Threads, General Purpose, Inch*
  - ASME B16.1 - *Gray Iron Pipe Flanges and Flanged Fittings Classes 25, 125, and 250*
- American Water Works Association (AWWA)
  - ANSI/AWWA C110/A21.10 - *Ductile-Iron and Gray-Iron Fittings*
  - AWWA C508 - *AWWA Standard for Swing-Check Valves for Waterworks Service, 2 In. Through 4 In.*
  - AWWA C606 - *AWWA Standard for Grooved and Shouldered Joints*
- Manufacturing Standardization Society (MSS)
  - MSS SP-30 - *Bronze Gate, Globe, Angle, and Check Valves*

## 3. Valve Designation System

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- 3.1 For a full explanation of the format used to structure the valve tag numbers listed within this Practice, refer to *PIP PNCM0004*.
- 3.2 This Practice provides descriptions for two types of check valves: dual plate and swing. Therefore, the first two characters in the valve numbers are CD (dual plate) and CS (swing).
- 3.3 The valves listed in Sections 5 and 6 of this Practice are sorted by the unique valve number designation in ascending alphanumeric sequence (e.g., CD12DC700, CS02BT000).