



PROCESS  
INDUSTRY  
PRACTICES

TECHNICAL CORRECTION  
May 2024

**Pipeline Systems**

**PIP PLSMV008**  
**Carbon Steel Plug 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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### **PUBLISHING HISTORY**

October 2017 Issued

January 2019 Technical Correction

August 2023 Complete Revision

May 2024 Technical Correction

Not printed with State funds



## PIP PLSMV008 Carbon Steel Plug Valve Descriptions

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## 1. Scope

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This Practice provides requirements for suppliers providing carbon steel plug valves included in PIP Pipeline Systems 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 PLCM0004 - Pipeline Systems Valve Tag Number Designator System

## 3. Valve Designation System

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- 3.1 For a full explanation of the format used to structure the valve numbers listed within this Practice, refer to PIP PLCM0004.
- 3.2 This Practice provides descriptions for two types of plug valves. Therefore, the first two characters following the Pipeline System Identifier, L, in the valve numbers are PE or PL.
- 3.3 The valves listed in Section 5 and Section 6 of this Practice are sorted by the unique valve number designation in ascending alphanumeric sequence (e.g., LPE01CB500, LPE01CB501, LPE03CB500, LPL01CB500, LPL01CB501, LPL03CB500, LPL03CB501).

## 4. Notes

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- 4.1 Occasionally, valve size ranges listed in this Practice are broader than the size ranges shown for the same valves on a given PMS. While the “most common practice” has been used to specify valve size ranges on line class specifications, a purchaser may need to utilize a valve in a size outside this “common practice” choice. Thus, for reference purposes, the full size range for which a given valve is typically manufactured is shown in this Practice.
- 4.2 Gear operation may be specified in two ways: (a) Select the description in which the gear operator is already called out, or (b) Select the description in which a handwheel has been called out, and use Field 5 of the Valve Tag Number Designator System as described in PIP PLCM0004.
- 4.3 If fluids can be trapped (e.g., in double-seated valves) and subject to heating and subsequent expansion, means of pressure relief shall be considered to avoid excessive pressure build-up.
- 4.4 Because of current practice at many pipeline facilities, only NACE-compliant valves are specified. These valves are technically acceptable for both sweet and sour services. For use of non-NACE-compliant valves or for applications involving severe sour and corrosive services, engineering review is required.