



PROCESS
INDUSTRY
PRACTICES

COMPLETE REVISION
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Piping

**PIP PNSMV045
Plastic and Plastic-Lined
Check Valve Descriptions**

PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

In an effort to minimize the cost of process industry facilities, this Practice has been prepared from the technical requirements in the existing standards of major industrial users, contractors, or standards organizations. By harmonizing these technical requirements into a single set of Practices, administrative, application, and engineering costs to both the purchaser and the manufacturer should be reduced. While this Practice is expected to incorporate the majority of requirements of most users, individual applications may involve requirements that will be appended to and take precedence over this Practice. Determinations concerning fitness for purpose and particular matters or application of the Practice to particular project or engineering situations should not be made solely on information contained in these materials. The use of trade names from time to time should not be viewed as an expression of preference but rather recognized as normal usage in the trade. Other brands having the same specifications are equally correct and may be substituted for those named. All Practices or guidelines are intended to be consistent with applicable laws and regulations including OSHA requirements. To the extent these Practices or guidelines should conflict with OSHA or other 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 the Practice.

This Practice is subject to revision at any time.

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Table of Contents

1. Scope	2
2. References	2
2.1 Process Industry Practices	2
3. Valve Designation System	2
4. Notes	2
5. Cross Reference	3
6. Active Valve Descriptions	4
7. Withdrawn Valve Descriptions	6

1. Scope

This Practice provides requirements for suppliers providing plastic and plastic-lined check valves included in PIP Piping Material Specifications (PMSs).

2. References

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*

3. Valve Designation System

- 3.1 For a full explanation of the format used to structure the valve numbers listed within this Practice, refer to *PIP PNCM0004*.
- 3.2 This Practice provides descriptions for two types of check valves: ball and swing. Therefore, the first two characters in the valve numbers are CL and CS.
- 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., CL01LJ500, CS01LJ500).

4. Notes

- 4.1 Occasionally, valve size ranges listed in this Practice are broader than the size ranges shown for the same valves on a given piping material specification (PMS). While the “most common practice” has been used to specify valve size ranges on PMSs, a user 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 Requirements for accessories (e.g., dampeners, dash pots, slam retarders, power assists) for swing check valves are not specified in piping line specifications or valve descriptions. Users will define the requirements for such accessories in their specifications.
- 4.3 Section 7 consists of valve tag numbers that have been withdrawn for various reasons (e.g. obsolescence, change in industry standard or practice, etc). These descriptions are provided for the historical convenience of users but will no longer be updated. The withdrawal date is given in the parentheses following the tag number.