



PROCESS
INDUSTRY
PRACTICES

REAFFIRMATION
December 2023

Pipeline Systems

PIP PLCM0001
Pipeline Systems Material Specification
Designator System

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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1. Scope

This Practice describes the arrangement of the PIP Pipeline Systems Material Specification (PLMS) designations and the requirements for each field within a designation. Designation requirements are provided for both PIP-developed and owner-developed pipeline systems material specifications. A one-page summary of the PIP PLMS specified in this Practice is provided in Appendix D.

2. Requirements

2.1 General

- 2.1.1 The PLMS designator system shall consist of seven alternating alphanumeric fields containing one or two characters each (maximum of eleven characters). The first six fields are mandatory while the seventh is optional. For convenience the designation “PL” for pipeline systems, which is placed at the beginning of a Practice number, is not included in the field definitions furnished in this Practice.
- 2.1.2 Each field shall describe a different feature of a PLMS.

2.2 Field Definitions

2.2.1 First Field (1 Alpha Character) – Piping Code

The first field shall define the applicable piping code. The piping code field shall consist of one alphabetic character in accordance with the following list:

- a. W = ASME B31.4
- b. X = ASME B31.8
- c. Y = DOT-192
- d. Z = DOT-195

2.2.2 Second Field (1 or 2 Numeric Characters) – Flange Class

- 2.2.2.1 The second field shall define the flange class.
- 2.2.2.2 The flange class field shall consist of one or two numeric characters in accordance with Table 1.

2.2.3 Third Field (2 Alpha Characters) – Pipeline Material

- 2.2.3.1 The third field shall define the nominal pipeline material.
- 2.2.3.2 The nominal pipeline material field shall consist of two alphabetic characters in accordance with Table 2.