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INDUSTRY
PRACTICES

COMPLETE REVISION
January 2020

Piping

PIP PNSMV026
Stainless Steel Ball Valve Descriptions

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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. Determination 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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1. Scope

This Practice provides the detailed purchase descriptions for stainless steel ball valve tag numbers included in PIP Piping Material Specifications and used along with *PIP PNSM0110* for the procurement of valves. This Practice also provides a cross reference for stainless steel ball valve tag numbers to applicable PIP Piping Material Specifications.

2. References

Applicable parts of the following Practices, industry codes and standards, and references 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 Commodity Codes Designator System

2.2 Industry Codes and Standards

- American Petroleum Institute (API)
 - API 6FA – *Specification for Fire Test for Valves*
 - API 607 – *Fire Test for Soft-Seated Quarter Turn Valve*

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 ball valves. Therefore, the first two characters in the valve numbers are BA.
- 3.2 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., BA01ST500, BA01ST501, BAC0502).

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 piping line class material specification. While the “most common practice” has been used to specify valve size ranges on piping 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 operators are specified in some, but not all, ball valve descriptions. If not specified in the valve description, the purchaser shall specify that gear operators are needed. One method of specifying this need is by using Field 5 of the valve designation system as described in *PIP PNCM0004*.
- 4.3 Many ball valve manufacturers offer numerous operator options (e.g., locking/nonlocking, latching/nonlatching, oval, tee). As a default, valve descriptions