



PROCESS
INDUSTRY
PRACTICES

TECHNICAL REVISION
January 2024

Hygienic Process

PIP PHSMV027

**Hygienic Process for Food\Beverage\Consumer &
CGMP Products Stainless Steel
Butterfly 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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Process Industry Practices
3925 West Braker Lane (R4500)
Austin, Texas 78759

PUBLISHING HISTORY

April 2015	Issued
November 2017	Technical Revision
January 2024	Technical Revision

Not printed with State funds



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1. Scope

This Practice provides requirements for suppliers providing hygienic stainless steel butterfly valves included in PIP Piping Line Class Material Specifications.

For the purposes of this Practice, “Hygienic,” “Process,” or “Hygienic Process” refers to all Hygienic Processes for Food/Beverage/Consumer & Current Good Manufacturing Practices (CGMP) or other products requiring a clean design.

2. References

Applicable parts of the following Practices, industry codes and standards, and government regulations 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 PHCM0004 - *Hygienic Valve Tag Number Designation System*

2.2 Industry Codes and Standards

- 3A Sanitary Standards Inc. (3A SSI)
 - 3A 00-01 - *General Requirements*
- American Society of Mechanical Engineers (ASME)
 - ASME B31.3 - *Process Piping*
 - ASME BPE - *Bioprocessing Equipment*
- National Sanitation Foundation (NSF)
 - NSF 51 - *Food Equipment Materials*

2.3 Government Regulations

- Code of Federal Regulations (CFR) - *Title 21: Food and Drugs*
- Regulation (European Commission) No 178/2002 of the European Parliament and of the Council Chapter II - *General Food Law*

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 PHCM0004*.
- 3.2 This Practice provides descriptions for butterfly valves.
- 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., 4BF14SU800, 4BF14SU801, 4BF14SU802).