



PROCESS
INDUSTRY
PRACTICES

October 2022

Hygienic Process

PIP PHSPCHP001
Hygienic Process Spray Devices Specification

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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. Determinations concerning fitness for purpose and particular matters or application of the Practice to a 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.

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Data Form

PHSPCHP001-2 – Hygienic Spray Device
Datasheet

1. Scope

This Practice provides the minimum requirements for the specification of spray devices in hygienic processes.

Spray devices may include a broad range of designs for process applications. This Practice is intended to address basic requirements that are common for typical applications.

The purchaser shall ensure that specifications are invoked and provided for specific applications that exceed the scope of this Practice. The purchaser may also provide data sheets, P&IDs, process data, and any other supplemental specifications needed to define the requirements for specific packaged equipment.

2. References

Applicable parts of the following Practices and industry codes and standards 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 are used herein where appropriate.

2.1 Process Industry Practices (PIP)

- PHS0001 – *Clean-In-Place (CIP) Spray-Mounted System Specification*

2.2 Industry Codes and Standards

- 3-A Sanitary Standards, Inc.
 - 3A 78-03 – *Sanitary Standard for Spray Cleaning Devices Intended to Remain in Place*
- American Society of Mechanical Engineers (ASME)
 - ASME BPE – *Bioprocessing Equipment*
 - ASME B31.3 – *Process Piping*
- European Hygienic Engineering & Design Guide (EHEDG)
 - DCC 50 – *Hygienic Design Requirements for CIP Installations*

3. Definitions

clean: Condition achieved by removal of dirt, residues, detergents, or other surface contaminants

clean-in-place (CIP): Cleaning of process contact surfaces of a system or component without disassembly beyond the removal of single-use components

dynamic spray device: Moving device designed to produce a nonstationary spray pattern