

3-A Sanitary Standard for Equipment Feet and Supports, Number 88-01

Standards Developing Organizations

3-A Sanitary Standards, Inc. (3-A SSI)

In collaboration with

United States Public Health Service (USPHS)/

United States Food and Drug Administration (USFDA)

United States Department of Agriculture (USDA)

European Hygienic Engineering & Design Group (EHEDG)

Effective Date: 10/23/2019

TABLE OF CONTENTS

TITLE	1
TABLE OF CONTENTS	2
DISCLAIMERS	4
FOREWORD.....	4
 A SCOPE	 5
 B NORMATIVE REFERENCES	 5
 C DEFINITIONS	 5
C1 Supports	5
C2 Feet.....	5
C3 Exposed Surfaces	6
C4 Non-exposed Surfaces	6
 D MATERIALS	 6
D1 Product Contact Surfaces (does not apply)	6
D2 Nonproduct Contact Surfaces.....	6
 E FABRICATION OF PRODUCT CONTACT SURFACES	
(does not apply)	6
 F FABRICATION OF NON-PRODUCT CONTACT SURFACES	 6
F1 Surfaces.....	6
F2 Joints	6
F3 Coatings	7
F4 Cleaning and Inspectability	7
F5 Draining	7
F6 Threads	7
F7 Supports.....	7
F8 Name and/or Information Plates (Nameplates)	7
F9 Seals.....	7
F10 Swivel Joints	7
 APPENDIX	
 1 STAINLESS STEEL AND EQUIVALENT MATERIALS	 8
 2 NON-PRODUCT CONTACT SURFACE FINISH.....	 8
 3 ENGINEERING DESIGN AND TECHNICAL CONSTRUCTION FILE	 8
 4 SEALING MATERIALS AND COMPOUNDS	 8

5 **BONDING/SEALING OF LOAD-BEARING FOOT** 8

6 **HARMONIZATION**.....9

7 **ILLUSTRATIONS**.....9

Disclaimers

3-A Sanitary Standards and 3-A Accepted Practices are developed through the efforts of experts, working on a volunteer basis, using science-based information and their professional experiences to reach consensus decisions on the sanitary (hygienic) criteria in these 3-A documents.

3-A Sanitary Standards Inc. (SSI), its employees and its volunteer committees/working groups shall not incur any obligation or liability for damages, including consequential damages, arising from or in connection with the development, use, interpretation, or reliance upon this 3-A Sanitary Standard.

3-A Sanitary Standards and 3-A Accepted Practices do not include provisions for mechanical, electrical, or personnel safety. Such safety criteria are established by government regulations and other standards development organizations (SDOs). Other SDO standards may be referenced.

Drawings and illustrations contained herein are examples to assist in understanding the criteria in this 3-A Sanitary Standard. Appendix drawings and illustrations are not intended to show all variations of the equipment or system nor are they exclusive of alternate approved methods. Appendix drawings and illustrations are non-normative.

Metric conversions are provided for convenience and are not intended to be mandatory.

The Appendix is an advisory or informative section unless specifically cited in the Materials or Fabrication Section as requiring conformance.

Foreword

This 3-A Sanitary Standard establishes minimum sanitary (hygienic) requirements for design, materials, fabrication, and/or installation of Equipment Feet and Supports.

This 3-A Sanitary Standard is for use on a voluntary basis by directly and materially affected organizations such as equipment and machinery fabricators, processors, regulatory agencies, and by other SDOs to assure adequate public health protections exist for the equipment or systems and covered products. 3-A SSI uses these documents as its source of sanitary criteria for 3-A Symbol authorization.

This 3-A Sanitary Standard was developed jointly by 3-A SSI, the United States Public Health Service (USPHS), United States Food and Drug Administration (USFDA), the United States Department of Agriculture – Dairy Programs (USDA), and the European Hygienic Engineering & Design Group (EHEDG).

It is our intent to encourage inventive genius and provide a forum to discuss new developments. Suggestions for improvement and new technology are welcome at any time for consideration by 3-A SSI. Please forward comments to: 3-A SSI, 6888 Elm Street, Suite 2D, McLean, VA 22101-3829, USA or by fax: 703-761-6284, or by e-mail to: 3-ainfo@3-a.org.

A SCOPE

- A1 This 3-A Sanitary Standard applies to the sanitary aspects of equipment feet and supports used on equipment in a wet processing area of dairy, food and other comestible products plants, including dry processing areas cleaned with water. These feet or supports attach to the equipment and support the equipment from the floor. The feet or supports begin at the point where the feet or supports attach to the body or base of the equipment and ends at the contact point on the floor.
- A1.2 These feet and supports are not product contact surfaces but have a hygienic significance because they may become a harborage of soil and create a source of secondary contamination to the products.
- A1.3 This standard does not apply to Casters.
- A1.4 This standard does not apply to mounting to a Slab or Island.
- A1.5 This standard does not apply to supports that attach to a wall or ceiling.
- A2 To conform to this 3-A Sanitary Standard, equipment feet or supports shall conform to the following criteria for design, material of construction, fabrication techniques and installation, as appropriate, and the current revisions or editions of all referenced documents cited herein.

B NORMATIVE REFERENCES

- B1 The following listed 3-A Sanitary Standards, 3-A Accepted Practices and other documents shall be considered as Normative References and the provisions of the referenced documents shall apply to this Standard without further reference in this document unless necessary to describe special considerations.

B2 3-A Sanitary Standards**Doc. No. Title (3-A Sanitary Standard for:)**

00- General Requirements

C DEFINITIONS

The most current approved version of the *3-A Sanitary Standard for General Requirements, 00-* shall apply, unless otherwise noted herein with additions, clarifications, exceptions, modifications, or exclusions.

- C1 **Supports:** Framework, skids, or other structure supporting equipment from the floor, creating clearance between the floor and equipment. Supports may include legs and braces as required. Supports may be equipped with features and other attributes including but not limited to: raising or lowering the equipment, vibration dampening, seismic compliance, and weighing.
- C2 **Feet:** Components and other assemblies that are attached to equipment or supports and provide