

3-A Sanitary Standard for General Requirements

American National Standard



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

In collaboration with
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American National Standard

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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. Illustrations are not intended to show all variations of the equipment or system nor are they exclusive of alternate approved methods. 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 and/or system(s).

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, and regulatory agencies, and by other SDOs to assure that adequate public health protections exist for the equipment or systems and covered products. 3-A SSI uses this document as its primary source of sanitary criteria for 3-A Symbol authorization and certification.

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 (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 defines the general requirements for sanitary (hygienic) equipment intended for processing milk, milk products, foods, food ingredients, beverages, or other edible materials.
- A2 To conform to this 3-A Sanitary Standard, equipment shall meet the following criteria for design, material of construction, fabrication techniques, and installation, as applicable. In addition, equipment shall meet the criteria defined in the corresponding 3-A Sanitary Standard for the specific equipment type.
- A3 Specific additional requirements and exceptions to the general requirements contained herein are defined in the individual 3-A Sanitary Standards and 3-A Accepted Practices, listed in Sections A3.1 and A3.2.
- A3.1 **3-A Sanitary Standards**

Note: New 3-A Sanitary Standards shall be considered to be included in this section 45 days after they have been accepted by the Consensus Body without revision of this General Standard.

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

- 01- Insulated Tanks
- 02- Centrifugal and Positive Rotary Pumps
- 04- Homogenizers and Reciprocating Pumps
- 05- Stainless Steel Automotive Transportation Tanks for Bulk Delivery and Farm Pick-up Service
- 10- Filters Using Single Service Filter Media
- 11- Plate Type Heat Exchangers
- 12- Tubular Heat Exchangers
- 13- Farm Milk Cooling and Holding Tanks
- 16- Product Evaporators and Vacuum Pans
- 17- Formers, Fillers, and Sealers of Containers for Fluid Products
- 18- Multiple-Use Rubber and Rubber-Like Materials
- 19- Batch and Continuous Freezers for Ice Cream, Ices, and Similarly Frozen Foods
- 20- Multiple-Use Plastic Materials
- 21- Centrifugal Separators and Clarifiers
- 22- Silo-Type Storage Tanks
- 23- Equipment for Packaging Viscous Products
- 24- Non-Coil Type Batch Pasteurizers
- 25- Non-Coil Type Batch Processors
- 26- Sifters for Dry Products
- 27- Equipment for Packaging Dry Products
- 28- Flow Meters
- 29- Air Eliminators