



*NSF International Standard /  
American National Standard*

## NSF/ANSI 14 - 2011

Plastics Piping System Components  
and Related Materials



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Chair, Joint Committee on Plastics  
c/o NSF International  
789 North Dixboro Road, P. O. Box 130140  
Ann Arbor, Michigan 48113-0140 USA  
Phone: (734) 769-8010 Telex: 753215 NSF INTL  
FAX: (734) 769-0109 E-mail: [info@nsf.org](mailto:info@nsf.org)  
Web: <http://www.nsf.org>

NSF International Standard/  
American National Standard  
for Plastics —

# **Plastics piping system components and related materials**

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## Foreword<sup>2</sup>

The purpose of this Standard is to establish minimum physical, performance, and health effects requirements for plastics piping system components and related materials.

In this edition of NSF/ANSI 14, the following revisions have been incorporated:

This version includes the following revisions:

- Issue 41: This issue removes the weekly burst pressure requirement for reducer bushings.
- Issue 43: The accelerated regression testing requirement was removed from Table 29 on the basis that it is intended as a qualifying test, and should not be listed under the product-specific quality assurance requirements for PVCO. Table 30 was revised to clarify the language in the title and footnote of the table to include both post- industrial and post-consumer recycled materials.
- Issue 44: This issue provides an alternate method for section 5.7, Chlorine Resistance – Dependent Transfer Listing requirements under the physical and performance requirements of section 5. The revised language will allow for the evaluation of pipe that cannot be tested at a high stress level at the highest temperature due to their specific design with regards to the occurrence of mixed mode failures.

This Standard was developed by the NSF Joint Committee on Plastics using the consensus process described in NSF Standards Development Policies and accredited by ANSI.

Suggestions for improvement of this Standard are welcome. Comments should be sent to Chair, Joint Committee on Plastics, c/o NSF International at [standards@nsf.org](mailto:standards@nsf.org), or Standards Department, PO Box 130140, Ann Arbor, Michigan 48113-0140, USA.

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# Plastics piping system components and related materials

## 1 General

### 1.1 Purpose

This Standard establishes minimum physical, performance, and health effects requirements for plastic piping system components and related materials. These criteria were established for the protection of public health and the environment.

### 1.2 Scope

The physical, performance, and health effects requirements in this Standard apply to thermoplastic and thermoset plastic piping system components, including but not limited to pipes, fittings, valves, joining materials, gaskets, and appurtenances. The established physical, performance, and health effects requirements also apply to materials (resin or blended compounds) and ingredients used to manufacture plastic piping system components. This Standard provides definitions and requirements for materials, ingredients, products, quality assurance, marking, and recordkeeping.

### 1.3 Materials, design, and construction

For plastic piping system components and materials cited by the references in 2, the materials, design, and construction requirements of this Standard and the applicable product standard(s) in 2 shall apply. When materials, designs, or constructions are utilized that are not cited in 2, the plastic piping system components and related materials shall comply with the applicable requirements of this Standard. Plastic piping system components and related materials that incorporate materials, designs, or constructions not cited in 2 are acceptable, provided that such plastic piping system components and related materials can be demonstrated to be at least equivalent in terms of strength, quality, effectiveness, durability, and safety to those that are cited in this Standard.

## 2 Normative references

The following documents contain requirements that, by reference in this text, constitute requirements of this Standard. At the time of publication, the indicated editions were valid. All of the documents are subject to revision, and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below. It is the responsibility of the user of this Standard to determine the acceptance of the referenced standards to the application and requirements of the local jurisdictions.

### 2.1 Normative references for plastic pipe and related components

ASME A112.4.14-2004. *Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems*<sup>3</sup>

<sup>3</sup> American Society of Mechanical Engineers (ASME), Three Park Avenue, New York, NY 10016-5990 <www.asme.org>.