



*NSF International Standard /
American National Standard*

NSF/ANSI 14 - 2009

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
Web: <http://www.nsf.org>

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for Plastics —

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Foreword²

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 27 In this issue, normative References were updated including the addition and deletion of several standards.
- Issue 28 Tables 10, 16, and 17 were reviewed and updated in this issue. Two new tables were added, Table 29 and Table 30. Table 29 added requirements for PVCO pipe according ASTM F1483 and AWWA C909. Table 30 added ASTM D2390 to meet these QC Requirements.
- Issue 29 The revision made in this issue added dezincification and resistance to stress corrosion requirements in NSF/ANSI 14 with the addition of a new section, Section 5.8.
- Issue 31 The revision made in this issue added two new tables to the standard. Tables 32 and 33 were added so that quality control requirements for UL 1285, UL 157, AWWA C900 and AWWA C905 would be incorporated.
- Issue 32 The revision made in this issue was to allow less frequent burst testing for larger sized pipes by adding a footnote in Table 10. Not requiring manufacturers to perform a burst test every 24 hours on large pipes saves time, effort, and cost.
- Issue 33 The revision made in this issue was to change the frequency of the burst test for sulfone fittings used in PEX systems in Table 11 from weekly to annually.

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, Standards Department, PO Box 130140, Ann Arbor, Michigan 48113-0140, USA.

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NSF/ANSI Standard for Plastics —

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*³

ASME A112.14.1-2003. *Backwater Valves*³