

NFPA® 1965

Standard for Fire Hose Appliances

2014 Edition



NFPA, 1 Batterymarch Park, Quincy, MA 02169-7471
An International Codes and Standards Organization

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NFPA® 1965
Standard for
Fire Hose Appliances
2014 Edition

This edition of NFPA 1965, *Standard for Fire Hose Appliances*, was prepared by the Technical Committee on Fire Hose. It was issued by the Standards Council on January 14, 2013, with an effective date of February 3, 2013, and supersedes all previous editions.

This edition of NFPA 1965 was approved as an American National Standard on February 3, 2013.

Origin and Development of NFPA 1965

The 2003 edition of NFPA 1965, *Standard for Fire Hose Appliances*, was the first edition. The Technical Committee on Fire Hose heard reports of hose-connected appliances failing in use, sometimes catastrophically, sometimes just by not working properly when needed. The committee developed this standard to provide some basic requirements that all hose-connected appliances must meet, in an effort to improve the usefulness and safety of appliances connected to fire hose. This standard completes a set of standards designed to provide consistent requirements for the whole fire hose system.

The 2009 edition is a general update of the 2003 edition.

The 2014 edition of NFPA 1965 clarifies several terms, makes U.S. units of measure primary and SI units secondary, and, for consistency, uses the metric measurement *bars* instead of *kilopascals*. Further, there is a new section, Section 4.8, which is from NFPA 1963, *Standard for Fire Hose Connections*, and relates to connections for large-stream devices so that users unfamiliar with other standards will have the information they need. Finally, the term *discharge* has been changed to *flow* where appropriate, as in NFPA 1964, *Standard for Spray Nozzles*, to relate it to water moving through a nozzle, thus eliminating confusion.



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NOTE: Membership on a committee shall not in and of itself constitute an endorsement of the Association or any document developed by the committee on which the member serves.

Committee Scope: This Committee shall have primary responsibility for documents on the size and design of fire hose connections, and the performance, maintenance, and selection of all types of fire hose, couplings, nozzles, and accessory equipment.



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Standard for

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Changes other than editorial are indicated by a vertical rule beside the paragraph, table, or figure in which the change occurred. These rules are included as an aid to the user in identifying changes from the previous edition. Where one or more complete paragraphs have been deleted, the deletion is indicated by a bullet (•) between the paragraphs that remain.

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Information on referenced publications can be found in Chapter 2 and Annex B.

Chapter 1 Administration

1.1* Scope. This standard shall cover the requirements for fire hose appliances up to and including 6 in. (150 mm) nominal dimension designed for connection to fire hose, fire apparatus, and fire hydrants and intended for general fire service use in controlling or conveying water.

1.2 Purpose. The purpose of this standard shall be to provide minimum performance and operational requirements for fire hose appliances and to specify the design verification tests for fire hose appliances.

1.3* Application. This standard shall apply to fire hose appliances up to and including 6 in. (150 mm) manufactured after the effective date of this standard. Fire hose appliances shall include the following:

- (1) Portable valves, including gate valves, ball valves, piston valves, butterfly valves, clappered valves, and pressure relief valves
- (2) Portable monitors, ladder pipes, and break-apart monitors
- (3) Miscellaneous hose appliances, including wyes, siameses, elbows, water curtains, water thieves, and manifolds

1.4 Equivalency. Nothing in this standard is intended to prevent the use of systems, methods, or devices of equivalent or superior quality, strength, fire resistance, effectiveness, durability, and safety over those prescribed by this standard.

1.5* Units of Measurement. In this standard, values for measurement in U.S. customary units are followed by an equivalent in SI units. Either set of values can be used, but the same set of values (either U.S. customary or SI units) shall be used throughout.

Chapter 2 Referenced Publications

2.1 General. The documents or portions thereof listed in this chapter are referenced within this standard and shall be considered part of the requirements of this document.

2.2 NFPA Publications. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

NFPA 1963, *Standard for Fire Hose Connections*, 2009 edition.

2.3 Other Publications.

2.3.1 ASTM Publications. ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

ASTM B117, *Standard Practice for Operating Salt Spray (Fog) Apparatus*, 2011.

ASTM D395, *Standard Test Methods for Rubber Property — Compression Set*, 2008.

ASTM D412, *Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers — Tension*, 2006.

ASTM D573, *Standard Test Method for Rubber — Deterioration in an Air Oven*, 2010.

ASTM D2565, *Standard Practice for Xenon Arc Exposure of Plastics Intended for Outdoor Applications*, 2008.

2.3.2 Other Publications.

Merriam-Webster's Collegiate Dictionary, 11th edition, Merriam-Webster, Inc., Springfield, MA, 2003.

2.4 References for Extracts in Mandatory Sections.

NFPA 1901, *Standard for Automotive Fire Apparatus*, 2009 edition.

Chapter 3 Definitions

3.1 General. The definitions contained in this chapter shall apply to the terms used in this standard. Where terms are not defined in this chapter or within another chapter, they shall be defined using their ordinarily accepted meanings within the context in which they are used. *Merriam-Webster's Collegiate Dictionary*, 11th edition, shall be the source for the ordinarily accepted meaning.

3.2 NFPA Official Definitions.

3.2.1* Approved. Acceptable to the authority having jurisdiction.

3.2.2* Authority Having Jurisdiction (AHJ). An organization, office, or individual responsible for enforcing the requirements of a code or standard, or for approving equipment, materials, an installation, or a procedure.

3.2.3 Shall. Indicates a mandatory requirement.

3.2.4 Should. Indicates a recommendation or that which is advised but not required.

