



Approval Standard for Fire Hose Assemblies and Fire Hose Couplings

Class Number 2111, 2131

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Foreword

The FM Approvals certification mark is intended to verify that the products and services described will meet FM Approvals' stated conditions of performance, safety and quality useful to the ends of property conservation. The purpose of Approval Standards is to present the criteria for FM Approval of various types of products and services, as guidance for FM Approvals personnel, manufacturers, users and authorities having jurisdiction.

Products submitted for certification by FM Approvals shall demonstrate that they meet the intent of the Approval Standard, and that quality control in manufacturing shall ensure a consistently uniform and reliable product. Approval Standards strive to be performance-oriented. They are intended to facilitate technological development.

For examining equipment, materials and services, Approval Standards:

- a) must be useful to the ends of property conservation by preventing, limiting or not causing damage under the conditions stated by the Approval listing; and
- b) must be readily identifiable.

Continuance of Approval and listing depends on compliance with the Approval Agreement, satisfactory performance in the field, on successful re-examinations of equipment, materials, and services as appropriate, and on periodic follow-up audits of the manufacturing facility.

FM Approvals LLC reserves the right in its sole judgment to change or revise its standards, criteria, methods, or procedures.

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1. INTRODUCTION

1.1 Purpose

1.1.1 This standard states Approval requirements for:

- Single-jacket and multiple-jacket lined fire hose assemblies in trade sizes of 1½, 1¾, 2, 2½, 3, 3½, 4, 4½, 5, and 6 in. (25, 38, 44, 51, 65, 76, 90, 100, 113, 125, and 150 mm).
- Single-jacket occupant-use fire hose assemblies in trade sizes of 1, 1½, and 2½ in. (25, 38 and 65 mm).
- Couplings for use with fire hose assemblies described above.

1.1.2 Approval criteria may include, but are not limited to, performance requirements, marking requirements, examination of manufacturing facility(ies), audit of quality assurance procedures, and a follow-up program.

1.2 Scope

1.2.1 This standard sets performance requirements for the following product categories and associated class numbers:

Class Number	Product Category
2111	Fire Hose Assemblies
2131	Fire Hose Couplings

1.2.2 This standard is applicable to:

- Single-jacket and multiple-jacket hose assemblies designed for municipal and industrial fire protection services.
- Single-jacket occupant-use hose assemblies designed to be used by occupants of a building to fight incipient fires prior to the arrival of trained fire fighters or fire brigade members. Occupant-use hose is expected to see infrequent service and is intended to be used for interior fire-fighting purposes only.
- Couplings attached to both ends of single- or multiple-jacket fire hose to allow for connection to additional lengths of hose, water sources, and/or discharge devices.

1.2.3 Single-jacket, uncovered hose is designed for use on standpipes, fire hydrants, and other such applications. They are not intended for rugged use nor in areas where they may be subject to chafing or being dragged over rough or sharp surfaces.

1.2.4 Multiple-jacket and covered hose is designed for use on pumpers or other areas where the extra protection afforded by the outer jacket or cover is desired.

1.2.5 While in service, fire hose tested and Approved to this Standard should be maintained and tested periodically to a nationally recognized standard, such as NFPA 1962, *Standard for the Care, Use, Inspection, Service Testing, and Replacement of Fire Hose, Couplings, Nozzles, and Fire Hose Appliances*.

1.2.6 Fire hose of unusual design may be subjected to special tests to determine its suitability.