



QLWV.MH17129 - Flexible Connector Piping for Fuels

Flexible Connector Piping for Fuels

[See General Information for Flexible Connector Piping for Fuels](#)

HOSE MASTER L L C

MH17129

1233 E 222nd St
Cleveland, OH 44117-1104 USA

Flexible metallic connectors, aboveground Automotive Fuels, maximum working pressure 50 psi, "Fire-Shield", "Fire-Shield", Model(s) FSFS 1.5, FSFS 2.0, FSFSE 2.0, FSMS 1.5, FSMS 2.0, FSMSE 1.5, FSMSE 2.0, FSMW 1.5, FSMW 2.0, FSQ2M 1.5, FSQF 1.5, FSQM 1.5, FSQM 2.0, FSQM 3.0, FSQQ 1.5, FSQQ 2.0, FSQQ 3.0, FSQSE 1.5, FSQSE 2.0, FSQT 1.5, FSQT 2.0, FSQWE 1.5, FSQWE 2.0, FSS2W 1.5, FSS2WE 1.5, FSSE2WE 1.5, FSSME 1.5, FSSME 2.0, FSSSE 1.5, FSSSE 2.0, FSSW 1.5, FSSW 2.0, FSSWE 1.5, FSSWE 2.0, FSTMM2 1.5, FSWSE 1.5, FSWSE 2.0, FSWWE 1.5, FSWWE 2.0

Flexible metallic connectors, aboveground for Automotive Fuels, maximum working pressure 150 psi, "Fire-Shield", "Fire-Shield", Model(s) FSMM 1.5, FSMM 2.0, FSMM 3.0, FSMU 3.0, FSS2M 1.5, FSUU 3.0, FSW2M 1.5

Flexible metallic connectors, aboveground for Automotive Fuels, maximum working pressure 150 psi, "Fire-Shield", "Fire-Shield", Model(s) FSFF 1.5, FSFF 2.0, FSM2M 1.5, FSMF 1.5, FSMF 2.0, FSMM 0.75, FSMM 1.0

Last Updated on 2019-07-24

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2022 UL LLC"



QLWV.GuideInfo - Flexible Connector Piping for Fuels

[Containment Products for Flammable and Combustible Liquids] (Transfer Pipe, Containment Sumps and Pipe/Sump Accessories) Flexible Connector Piping for Fuels

See [General Information for Transfer Pipe, Containment Sumps and Pipe/Sump Accessories](#)

USE AND INSTALLATION

This category covers primary, secondary and coaxial-type flexible connector pipe intended for the transfer and containment of flammable or combustible liquid fuels (or vapors thereof) at commercial (public) or fleet (private) automotive fueling stations.

Flexible connectors may be metallic, nonmetallic or composite, and have integral end fittings, but are limited to a maximum length of 12 ft in nominal sizes up to 4 in. for use as piping components within fuel-dispensing and/or vapor-recovery systems.

Flexible connectors may be used underground (where routed through chase pipe), in enclosed sumps (such as tank, dispenser or transition types), or aboveground without additional protection.

The combinations of containment types, location and liquid ratings are described under **TYPES AND RATINGS** below.

These connectors are intended to be installed and used in accordance with the manufacturer's instructions and one or more of the following codes:

ANSI/NFPA 1, "Fire Code"

ANSI/NFPA 30, "Flammable and Combustible Liquids Code"

ANSI/NFPA 30A, "Code for Motor Fuel Dispensing Facilities and Repair Garages"

"International Fire Code"

Other codes or federal or state regulations of the Authority Having Jurisdiction

These connectors are intended to be field assembled by qualified persons in accordance with the manufacturer's instructions and, for continued leak-tight service, require periodic inspection and maintenance or replacement.

TYPES AND RATINGS

The following types of flexible connector pipe constructions and ratings are marked on the product and indicated in the individual certifications.

Containment Ratings

Primary — Single-wall pipe construction intended to contain and convey the intended fuels flowing in a piping system under normal use.

Secondary — Single-wall pipe construction intended to surround the primary, contain the fuels under abnormal conditions (such as primary rupture) and provide fluid communication and monitoring capabilities.

Coaxial — Double-wall pipe construction consisting of integral primary and secondary pipe with a defined interstitial space that provides fluid communication and monitoring capabilities.

Location Ratings

Underground — Installed below the earth's surface, but accessible without digging, such as within chase piping.

Sump — Installed within an enclosed structure (below, above or at grade) and intended to provide protection and access of components.

Aboveground — Installed on or above the earth's surface, typically without additional protection.

Liquid Ratings

Automotive Fuels — Only those fuels formulated in accordance with 40CFR80, "Regulation of Fuels and Fuel Additives," and meeting the following ASTM fuel specifications and blend limits:

ASTM D975 diesel with or without biodiesel blends up to 5% (B5)

ASTM D7467 diesel with biodiesel blends between 6% - 20% (B6 - B20)

ASTM D4814 gasoline with ethanol blends up to 10% (E10)

ASTM D5798 high-blend ethanol, with ethanol/gasoline blends from 51% to 83% (E51 - E83)

Mid-range ethanol, with ethanol/gasoline blends of ASTM D4814 and ASTM D5798 blends from 11% to 50% (E11 - E50)

PRODUCT IDENTITY

The following product identity appears on the product: