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the hose and fittings superstore



Safety information for Liquefied Petroleum Gas hose

Each system shall have containers, valves, connectors, manifold valve assemblies, and regulators of an approved type.

All cylinders shall meet DOT specifications.

Every container and vaporizer shall be provided with one or more approved safety relief valves or devices.

Containers shall be placed upright on firm foundations or otherwise firmly secured.

Portable heaters shall be equipped with an approved automatic device to shut off the flow of gas in the event of flame failure.

All cylinders shall be equipped with an excess flow valve to minimize the flow of gas in the event the fuel line becomes ruptured.

Storage of liquefied petroleum gas within buildings is prohibited.

Storage locations shall have at least one approved portable fire extinguisher rated not less than 20-B:C.

All piping, tubing, or hose shall be tested after assembly and proved free from leaks at not less than normal operating pressures. After installation, piping and tubing of all domestic and commercial systems shall be tested and proved free of leaks using a manometer or equivalent device that will indicate a drop in pressure. Test shall not be made with a flame.

Hose shall be fabricated of materials that are resistant to the action of LP-Gas in the liquid and vapor phases. If wire braid is used for reinforcing the hose, it shall be of corrosion-resistant material such as stainless steel.

Hose subject to container pressure shall be marked "LP-Gas" or "LPG" at not greater than 10-foot intervals.

Hose subject to container pressure shall be designed for a bursting pressure of not less than 1,250 p.s.i.g.

Hose subject to container pressure shall have its correctness as to design construction and performance determined by being listed.

Hose connections subject to container pressure shall be capable of withstanding, without leakage, a test pressure of not less than 500 p.s.i.g.



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Hose and hose connections on the low-pressure side of the regulator or reducing valve shall be designed for a bursting pressure of not less than 125 p.s.i.g. or five times the set pressure of the relief devices protecting that portion of the system, whichever is higher.

Hose may be used on the low-pressure side of regulators to connect to other than domestic and commercial gas appliances under the following conditions:

The appliances connected with hose shall be portable and need a flexible connection.

For use inside buildings the hose shall be of minimum practical length, but shall not exceed 6 feet except as provided in paragraph (c)(5)(i)(g) of this section and shall not extend from one room to another, nor pass through any walls, partitions, ceilings, or floors. Such hose shall not be concealed from view or used in a concealed location. For use outside of buildings, the hose may exceed this length but shall be kept as short as practical.

The hose shall be approved and shall not be used where it is likely to be subjected to temperatures above 125 deg. F. The hose shall be securely connected to the appliance and the use of rubber slip ends shall not be permitted.

The shutoff valve for an appliance connected by hose shall be in the metal pipe or tubing and not at the appliance end of the hose. When shutoff valves are installed close to each other, precautions shall be taken to prevent operation of the wrong valve.

Hose used for connecting to wall outlets shall be protected from physical damage.

The use of hose to carry liquid between the container and the building or at any point in the liquid line, except at the appliance connector, shall be prohibited.

When necessary, unloading piping or hoses shall be provided with suitable bleeder valves for relieving pressure before disconnection.

Hose shall be designed for a working pressure of at least 250 p.s.i.g. Hose and hose connections shall have their correctness as to design, construction and performance determined by listing by a nationally recognized testing laboratory. The hose length may exceed the length specified in paragraph (b)(9)(vii) (b) of this section, but shall be as short as practicable. Refer to 1910.7 for definition of nationally recognized testing laboratory.

Hose shall be long enough to permit compliance with spacing provisions of this subparagraph without kinking or straining or causing hose to be so close to a burner as to be damaged by heat.



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Containers, regulating equipment, manifolds, pipe, tubing, and hose shall be located so as to minimize exposure to abnormally high temperatures (such as may result from exposure to convection or radiation from heating equipment or installation in confined spaces), physical damage, or tampering by unauthorized persons.


When permanently installed containers are interconnected, provision shall be made to compensate for expansion, contraction, vibration, and settling of containers, and interconnecting piping. Where flexible connections are used, they shall be of an approved type and shall be designed for a bursting pressure of not less than five times the vapor pressure of the product at 100 deg. F. The use of nonmetallic hose is prohibited for permanently interconnecting such containers.

When a discharge line from the container safety relief valve is used, the line shall be metallic, other than aluminum, and shall be sized, located, and maintained so as not to restrict the required flow of gas from the safety relief valve. Such discharge line shall be able to withstand the pressure resulting from the discharge of vapor when the safety relief valve is in the full open position. When flexibility is necessary, flexible metal hose or tubing shall be used.

 *All hose carrying acetylene, oxygen, natural or manufactured fuel gas, or any gas or substance which may ignite or enter into combustion or be in any way harmful to employees, shall be inspected at the beginning of each shift. Defective hose shall be removed from service.*

This information has been obtained from the OSHA web site: <http://www.osha.gov>

This is provided as an introduction to the safe use of LP gas hose, it may be subject to change without notice and may not include all current regulations. Central States Hose urges you to contact your safety manager, a safety consultant or OSHA field office to ensure that your operation meets all safety requirements.

 **Use of a damaged hose assembly can result in serious personal injury and property damage.**