

# NFPA® 58 Liquefied Petroleum Gas Code

2008 EDITION

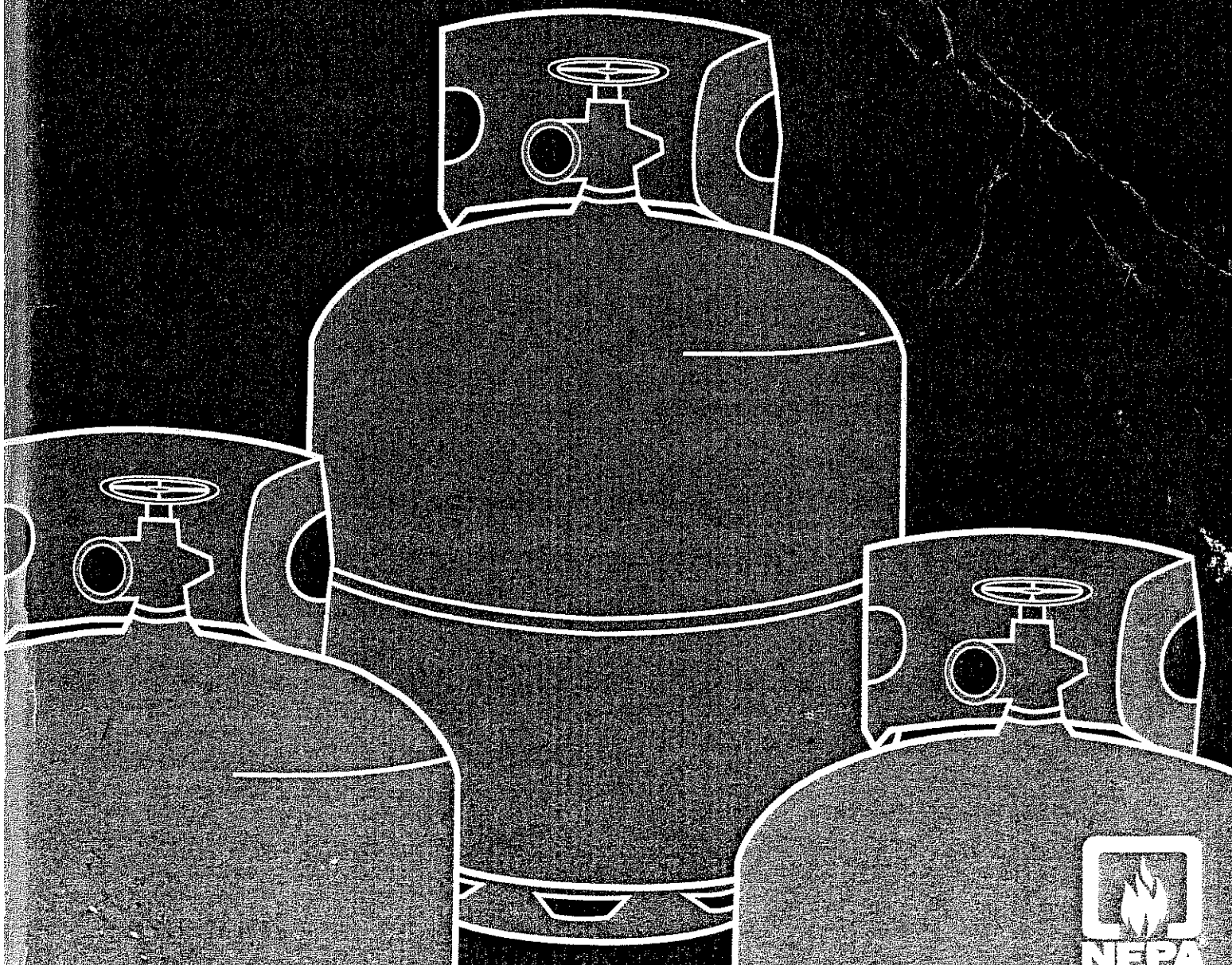


Table 6.4.5.8 Separation Distances of LP-Gas Containers and Oxygen and Hydrogen Containers

LP-Gas Containers Aggregate Water Capacity		Separation from Oxygen Containers Aggregate Capacity					Separation from Gaseous Hydrogen Containers Aggregate Capacity				
		400 ft <sup>3</sup> (11 m <sup>3</sup> )* or Less	More than 400 ft <sup>3</sup> (11 m <sup>3</sup> )* to 20,000 ft <sup>3</sup> (566 m <sup>3</sup> )* Including Unconnected Reserves		More than 20,000 ft <sup>3</sup> (566 m <sup>3</sup> )* Including Unconnected Reserves		Less than 400 ft <sup>3</sup> (11 m <sup>3</sup> )*	400 ft <sup>3</sup> (11 m <sup>3</sup> )* to 3000 ft <sup>3</sup> (85 m <sup>3</sup> )*		More Than 3000 ft <sup>3</sup> (85 m <sup>3</sup> )*	
			ft	m	ft	m		ft	m	ft	m
gal	m <sup>3</sup>	None	20	6	25	7.6	—	—	—	—	—
<1200	≤4.5	None	20	6	50	15	—	—	—	—	—
>1200	>4.5	—	—	—	—	—	None	10	3	25	7.6
≤500	≤1.9	—	—	—	—	—	None	25	7.6	50	15
>500	>1.9	—	—	—	—	—	None	25	7.6	50	15

\* Cubic feet (m<sup>3</sup>) measured at 70°F (21°C) and atmospheric pressure.

6.5.1.1 The transfer of liquid into containers mounted on vehicles shall not take place within a building but shall be permitted to take place under a weather shelter or canopy (see 6.2.4.3.3).

6.5.1.2 Structures housing transfer operations or converted for such use after December 31, 1972, shall comply with Chapter 10.

6.5.1.3 The transfer of liquid into containers on the roofs of structures shall be permitted, provided that the installation conforms to the requirements contained in 6.6.7 and 6.19.11.

6.5.1.4 The transfer hose shall not be routed in or through any building except those specified in 6.5.1.2.

6.5.2 Filling of containers located outdoors in stationary installations in accordance with Section 6.3 shall be permitted to be filled at that location.

6.5.3 If the point of transfer of containers located outdoors in stationary installations is not located at the container, it shall be located in accordance with Table 6.5.3.

6.5.4 Containers not located in stationary installations shall be filled at a location determined by the point of transfer in accordance with Table 6.5.3.

6.5.4.1 If the point of transfer is a component of a system covered by Section 6.23 or Chapter 11, the requirements of parts A, B, and C of Table 6.5.3 shall not apply to the structure containing the point of transfer.

6.5.4.2 If LP-Gas is vented to the atmosphere under the conditions stipulated in 7.3.1(5), the distances in Table 6.5.3 shall be doubled.

6.5.4.3 If the point of transfer is housed in a structure complying with Chapter 10, the distances in Table 6.5.3 shall be permitted to be reduced, provided the common walls comply with 10.3.1.3.

6.5.4.4 The distances in Table 6.5.3, parts B, C, D, E, F(2), and J, shall be reduced by one-half where the system incorporates the provisions of low emission transfer as provided in 6.26.5.

6.6 Installation of Containers.

6.6.1 General Requirements.

6.6.1.1 Containers shall be positioned so that the pressure relief valve is in direct communication with the vapor space of the container.

6.6.1.2 LP-Gas containers or systems of which they are a part shall be protected from damage from vehicles.

6.6.1.3 Field welding on containers shall be limited to non-pressure parts such as saddle plates, wear plates, or brackets installed by the container manufacturer.

6.6.1.4\* Aboveground containers shall be painted.

6.6.1.5 Containers shall be installed so that all container operating appurtenances are accessible.

6.6.1.6 Where necessary to prevent flotation due to possible high flood waters around aboveground or mounded containers or high water table for those underground and partially underground, containers shall be securely anchored.

6.6.2 Installation of Cylinders.

6.6.2.1 Cylinders shall be installed only aboveground and shall be set upon a firm foundation or otherwise be firmly secured. The cylinder shall not be in contact with the soil.

6.6.2.2 Flexibility shall be provided in the connecting piping. Where flexible connectors are used, they shall comply with 6.9.6.

6.6.3 Installation of Horizontal Aboveground ASME Containers.

6.6.3.1 Horizontal ASME containers designed for permanent installation in stationary service above ground shall be placed on masonry or other noncombustible structural supports located on concrete or masonry foundations with the container supports.

(A) Where saddles are used to support the container, they shall allow for expansion and contraction and prevent an excessive concentration of stresses.

(B) Where structural steel supports are used, they shall comply with 6.6.3.3.

(C) Containers of more than 2000 gal (7.6 m<sup>3</sup>) water capacity shall be provided with concrete or masonry foundations formed to fit the container contour or, if furnished with saddles in compliance with Table 6.6.3.3, shall be placed on flat-topped foundations.

