



City of Thornton Fire Department | 2300 Thornton Parkway | Thornton, CO 80229
303-538-7602 | FireDept@ThorntonCO.gov | ThorntonCO.gov

General Requirements for Temporary Storage and Use of LP-Gas Cylinders at Construction Sites

Storage and Use of liquefied petroleum gas (LP-gas) and the installation of LP-gas equipment pertinent to systems for such uses shall comply with 2021 International Fire Code (IFC) Chapter 61, *Liquefied Petroleum Gases* and

- National Fire Protection Association Standard 58 (2012 Edition), *Liquefied Petroleum Gas Code* (2017 Edition),

Section 58:6.22 shall apply to the installation of LP-Gas systems in buildings. The use of cylinders indoors shall be only for the purposes specified in 58:6.22.4.1 through 58:6.22.4.10

58: 6.22 1.1(1) shall apply to the installation of LP-Gas systems utilizing cylinders inside of buildings

58:6.22 1.1(2) shall apply to the installation of LP-Gas systems in which the liquid is piped from outside containers into buildings.

Where cylinders are used and transported in buildings under construction, which are not occupied by the public, the requirements of 2017 NFPA 58:6.22.4.2 through 6.22.4.10 shall apply.

- 58:6.8.5 Single containers constructed as portable storage containers for temporary stationary service shall be placed on concrete pads, paved surfaces, or firm earth for such temporary service (not more than 12 months at a given location).
- Containers shall be designed, fabricated, tested, and marked (or stamped) in accordance with the regulations of the US Department of Transportation (DOT 49 CFR), the ASME Code, Section VIII, or the API-ASME Code for Unfired Pressure Vessels for Petroleum Liquids and Gases. 58:5.2.1.1.
- Containers installed outside of buildings shall be located in accordance with 58:6.4.1 including the following summary table.

Minimum separation between LP-gas containers and buildings, public ways, or property lines

Total tank(s) capacity of 500 gallons or less =	10 Feet
Total tank(s) capacity of up to 2,000 gallon capacity =	25 Feet *
Minimum separation between tanks =	3 Feet
*A single container with a capacity up to 1,200 gallon =	10 Feet

**container w. cap. up to 2,000-gallon separation to public ways not less than 5 ft.

- Per 58:2.8 Containers shall be marked as provided in the regulations, rules, or code under which they are fabricated. Where LP-Gas and one or more other compressed gases are to be stored or used in the same area, the cylinders shall be marked “FLAMMABLE” and either “LP-GAS,” “PROPANE,” or “BUTANE,” or shall be marked in accordance with the requirements of 49 CFR, “Transportation”.

According to 58:2.8.2 Cylinders shall be marked with the following information:

1. Water capacity of the cylinder in pounds
2. Tare weight of the cylinder in pounds, fitted for service
3. Markings for ASME Containers shall comply with 58:5.2.8.3 Sections (A) through (D)

In accordance with IFC 6106.3 the point of transfer of LP-gas from one LP-gas container to another shall be separated from exposures as specified in NFPA 58.

- 6107.1 ‘No Smoking’ signs complying with IFC Section 310 shall be posted where required by the fire code official. Smoking within 25 feet of a point of transfer, while filling operations are in progress at LP-gas containers or vehicles, shall be prohibited.
- A portable fire extinguisher with a minimum capacity of 18 pounds of dry chemical with a B:C rating shall be located not more than 50 feet of travel distance from the LP-gas dispensing vehicle and the fill container.
- LP-Gas containers or systems installed within 10 feet of public vehicular thoroughfares shall be provided with a means of vehicular barrier protection.
- 6107.3 Storage areas shall be kept free of weeds, grass, brush, trash and other extraneous combustible materials for a minimum of 10 feet around LP-gas tanks.

The Fire Department will conduct a final inspection of indoor cylinders, associated heaters, and/or outdoor containers, piping protection, vehicle barriers and no smoking signs upon completion of installation and prior to filling the container(s). Please schedule this inspection at least four working days in advance.