



City of Thornton Fire Department | 2300 Thornton Parkway | Thornton, CO 80229
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General Requirements for Storage of Portable LP-Gas Containers Awaiting Resale

- Storage of Portable LP-gas containers and specific conditions at cylinder exchange stations shall comply with the requirements of the International Fire Code (2021 Edition) including, Sections 6109.2 through 6109.15.1 of Storage of Portable LP-Gas Containers Awaiting Use or Resale and National Fire Protection Association Standard 58 (2020 Edition), *Standard for the Storage and Handling of Liquefied Petroleum Gases*.
- Installations stored next to buildings are limited to an aggregate capacity of 2,500 pounds.
- Cylinder cabinets with less than 2,500 pounds storage shall be located at least 5 feet from openings into buildings with two or more means of egress and 10 feet from opening into buildings with one means of egress.
- Cylinder cabinets with greater than 10,000 pounds storage shall be located a minimum of 20 feet from motor vehicle fuel dispensing.
- When stored outside of buildings protected with an automatic sprinkler system, the eaves, canopies, or overhangs where the cages are located shall be sprinklered.
- LP-Gas containers shall be stored within a suitable enclosure or otherwise protected against tampering. Vehicle impact protection shall be provided as required by NFPA 58.

Exception: Vehicle impact protection shall not be required for protection of LP-gas containers where the containers are kept in lockable ventilated cabinets of metal construction.

- LP-Gas containers in storage having individual 1-pound LP-gas capacity shall be positioned upright with the pressure-relief valve in direct communication with the vapor space of the container.
- All LP-gas DOT containers valves shall be protected by screw-on type caps or collars that shall be securely in place on all containers stored regardless of whether they are full, partially full, or empty. Container and tank outlet valves shall be closed and plugged.

- Defective containers or containers showing denting, bulging, or excessive corrosion shall be removed from service and properly disposed of.
- *NO SMOKING* signs and approved NFPA 704 hazard identification signs shall be posted on the exchange cage.
- Signs listing exchange procedures, company name and 24-hour phone numbers shall be posted within 10 feet of the cylinder storage cabinet.
- Signs requiring that customers leave LPG containers outside shall be posted at the building entrance(s).
- All employees with access to the exchange cage shall be trained in the proper handling and operating procedures, including the procedure for handling defective containers.
- A written inspection checklist for receiving empty containers as well as giving out full cylinders shall be available and used by employees when handling containers.
- Cylinder exchange stations that include an automated vending system for exchanging cylinders shall comply with 6109.15.1.
- The Fire Department will conduct a final inspection of the LP-gas cylinder cabinet station prior to stocking the LP-gas cylinders. Please schedule this inspection at least four working days in advance.

All service providers who inspect, test and repair fire protection systems within Thornton's jurisdiction are required to register and submit all test, inspection, and service reports via The Compliance Engine. All reports must be submitted in accordance with the testing schedule and requirements outlined in our adopted fire code.