



## Compressed Gas Storage/Use Checklist

CHK-003  
Date: 1/1/17  
Mod:1/13/18

Approved by:  
RWM

**Purpose:** Fire Inspection Checklists are provided so that the general public has an idea of what may be required during an inspection.

*Please note that this list only covers the most frequently observed violations or conditions, and is not all inclusive. All occupancies are subject to the report of violations issued by the fire inspector conducting the inspection.*

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**Scope:** Storage, use and handling of compressed gases in compressed gas containers, cylinders, tanks and systems shall comply with this chapter, including those gases regulated elsewhere in this code. Partially full compressed gas containers, cylinders or tanks containing residual gases shall be considered as full. Permits shall be required as set forth in California Fire Code Section 105.6.8.

**Exception:**

1. Gases used as refrigerants in refrigeration systems (see Section 606).
2. Compressed natural gas (CNG) for use as a vehicular fuel shall comply with Chapter 23, NFPA 52 and the California Mechanical Code.

### Conditions:

- Equipment, machinery and associated suppression, detection and alarm systems are tested and maintained. (CFC 5003.2/5003.2.6)
- Safety Data Sheets (SDS) are readily available on site. (CFC 5003.4)
- Compressed gases are not discharged onto the ground, into the atmosphere or into sewers, storm drains, etc. (CFC 5003.3)
- Hazard identification (i.e. NFPA 704 placard) is provided on containers, cylinders, tanks and building entrances. (CFC 5003.5). Contact the Fire Department for requirements of the contents of the diamond.
- Containers, cylinders and tanks are labeled with their contents (i.e. chemical name and hazard class). (CFC 5303.4 and 5003.5/5003.6)
- "No Smoking" signage is posted. (CFC 5003.7.1)
- Open flame and high temperature devices are not used in a manner which creates a hazardous condition. (CFC 5303.7.7)
- Storage does not exceed maximum allowable quantities and/or number of control area(s). (CFC TABLE 5003.1.1(1)).
- Pressure relief devices shall be provided to protect containers, cylinders and tanks containing compressed gases from rupture in the event of overpressure. (CFC 5303.3)
- Piping systems are marked with the content name and direction of flow at 20 foot intervals and at each valve change of direction and at wall, floor, or ceiling penetrations. (CFC 5303.4.3)



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- Containers, cylinders and tanks are protected against tampering, physical damage and vehicle impact. (CFC 5303.16.6)
- Containers, cylinders and tanks are secured to a fixed object, on a cart, nested or in a rack. (CFC 5303.5.3)
- Containers, cylinders, tanks and tank valves have protective caps, collars or other protective device. (CFC 5303.6)
- Incompatible materials are separated by minimum 20 feet, non-combustible barrier, storage cabinet or gas cabinet. (CFC 5303.7)
- Containers, cylinders and tanks are located more than 10 feet from combustible waste, vegetation and similar materials. (CFC 5303.7.2)
- Containers, cylinders and tanks are not exposed to temperatures exceeding 125°F (52°C) or sub ambient (low) temperatures, unless designed for use under the exposed conditions. (CFC 5303.7.4)
- Class I electrical and electronic equipment is provided and maintained where applicable. (CFC 5303.8)
- Leaking, damaged or corroded containers, cylinders and tanks are removed from service. (CFC 5303.12)
- Containers, cylinders and tanks are stored and used in the upright, valve end up position, unless designed for horizontal use. (CFC 5304.1)
- Medical gas room one-hour construction or gas cabinet is maintained. (CFC 5306.2)
- Medical gas emergency shut-off valves are clearly visible and identified.
- Ventilation is adequate for compressed gases not specifically regulated in the California Fire Code. (CFC 5308.2)
- 4A:80B:C rated fire extinguisher(s) is provided and travel distance does not exceed 50-feet. (CFC 906)
- Carbon dioxide systems with more than 100 pounds (45.4 kg) of carbon dioxide used in beverage dispensing applications shall comply with Sections 5307.2 through 5307.5.2.
- Where carbon dioxide storage tanks, cylinders, piping and equipment are located indoors, rooms or areas containing carbon dioxide storage tanks, cylinders, piping and fittings and other areas where a elak of carbon dioxide can collect shall be provided with either ventilation in accordance with Section 5307.5.1 or an emergency alarm system in accordance with Section 5307.5.2.

Additional Requirements may apply. See FCF Chapters 50 and 53 for additional requirements