

Seattle Fire Department

Permit Conditions

7402

Medical Gas

This permit shall be kept on the premises designated herein at all times and shall be readily available for inspection by the fire code official. [SFC 105.3.5]

1. Medical gases shall be stored in areas dedicated to the storage of such gases without other storage or uses. [SFC 5306.2]
2. When containers of medical gases in quantities greater than the permit amount are located inside buildings the containers shall be in an approved one-hour exterior room, an approved one-hour interior room or a gas cabinet in accordance with Section 5306.2.1, 5306.2.2, or 5306.2.3 of the Seattle Fire Code. [SFC 5306.2]
3. Areas used for the storage, use and handling of compressed gas containers, cylinders, tanks and systems shall be secured against unauthorized entry and safeguard in an approved manner. [SFC 5303.5.1]
4. "COMPRESSED GAS" signs, "NO SMOKING" signs, and/or hazard identification signs as specified in NFPA 704, shall be posted on the gas storage room or cabinet. The marks or labels on individual containers, cylinders, tanks, or systems shall be maintained in accordance with nationally recognized standards. [SFC 310.3 & 5003.5]
5. Leaking, damaged, corroded, or defective compressed gas containers, cylinders, tanks and systems shall be removed from service and repaired, replaced, or disposed of in an approved manner. [SFC 5003.2.6 & 5303.12]
6. Empty containers and tanks previously used for the storage of hazardous materials shall be free from residual vapor or explosive vapors as defined by DOT or R.C.R.A. or other regulating authority or shall be maintained as specified for the storage of the hazardous material. [SFC 5003.2.5]
7. Compressed gas containers, cylinders, or tanks designed for protective caps, collars or other protective devices shall have the caps or devices in place except when the containers, cylinders or tanks are in use or are being serviced or filled. [SFC 5303.6.1]
8. Compressed gas containers, cylinders, tanks and systems shall not be exposed to open flame, high temperature or heating devices which could raise the surface temperature above 125 degrees, or which could otherwise create a hazardous condition. [SFC 5303.7.6]
9. Compressed gas containers, cylinders, tanks and systems shall not be used for electrical grounding and shall not be located where they could become part of an electrical circuit. [SFC 5303.8]
10. Persons responsible for the operation of areas in which hazardous materials are stored, dispensed, handled, or used shall be familiar with the chemical nature of the materials and the appropriate mitigating actions necessary in the event of a fire, leak, or spill. [SFC 5003.9.1]
11. Provisions shall be made for controlling and mitigating unauthorized discharges of hazardous materials. [SFC 5003.3.1.2]
12. Hazardous materials shall not be released into a sewer, storm drain, ditch, drainage canal, lake, river or tidal waterway, or upon the ground, sidewalk, street, highway, or into the atmosphere. The *fire code official* shall be notified immediately when an unauthorized discharge becomes reportable under state, federal, or local regulations, or when any release inside or outside a building could present a life safety hazard. [SFC 5003.3 and 5003.3.1]
13. Compressed gas containers, cylinders, tanks and systems which could be exposed to vehicular or other physical damage shall be protected by guard posts or other approved means. [SFC 5303.5.2]
14. Compressed gas containers, cylinders and tanks shall not be placed near unprotected ledges or other areas where they could drop distances exceeding one half the height of the container, cylinder or tank. [SFC 5303.7.3]
15. Compressed gas containers, cylinders and tanks shall not be placed in areas where they are likely to be damaged by falling objects. [SFC 5303.7.5]

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16. Compressed gas containers, cylinders and tanks shall be protected from direct contact with soil, other unimproved surfaces, or areas of standing water in order to prevent bottom corrosion. [SFC 5303.13]
17. Compressed gas containers, cylinders, tanks and systems shall be secured against accidental dislodgment or falling due to contact, vibration, or seismic activity. [SFC 5303.5.3]
18. Compressed gas containers, cylinders and tanks, except those designed for use in a horizontal position, and all compressed gas containers, cylinders and tanks containing non-liquefied gases shall be stored in a "valve end up" upright position. An upright condition shall include conditions where the container, cylinder or tank axis is inclined as much as 45 degrees from the vertical.

EXCEPTIONS:

1. Compressed gas containers with a water volume less than 1.3 gallons are allowed to be stored in a horizontal position.
 2. Cylinders, containers and tanks containing nonflammable gases or cylinders, containers and tanks containing nonliquefied flammable gases, which have been secured to a pallet for transportation. [SFC 5304.1]
19. Where containers, cylinders, and tanks are moved by hand cart, hand truck or other mobile device, such carts, trucks or devices shall be designed for the secure movement of containers, cylinders or tanks. [SFC 5305.10.1]
 20. Markings used for piping systems shall consist of the content's name and include a direction of flow arrow. Markings shall be provided at each valve; at wall or ceiling penetrations; at each change of direction; and at a minimum of every 20 feet or fraction thereof throughout the piping run. [SFC 5303.4.3]
 21. Portable compressed gas containers, cylinders, and tanks shall be marked in accordance with nationally recognized standards (i.e. CGA C-7) for identification. [SFC 5303.4.2]
 22. The maintenance and testing of medical gas systems including, but not limited to, distribution piping, supply manifolds, connections, pressure regulators and relief devices and valves, shall comply with the maintenance and testing requirements of NFPA 99 and the general provisions of Chapter 53 of the Seattle Fire Code. [SFC 5306.5]