



# DEPARTMENT OF RESOURCE MANAGEMENT

## Building Division

1855 Placer Street, Suite 102

Redding, California 96001

Phone: (530) 225-5761 Fax: (530) 245-6468

Inspection Request Line: (530) 244-5068

Web: [building.co.shasta.ca.us](http://building.co.shasta.ca.us) Email: [resourcemanagement@co.shasta.ca.us](mailto:resourcemanagement@co.shasta.ca.us)

### LP GAS – ABOVEGROUND TANKS

(Rev: 08-10-20)

**Reference Codes: CPC Chapter 12, CFC Article 82, NFPA 58**

#### **Installation requirements:**

Gas piping must be approved and labeled for use with gas.

Non-metallic piping usually “PE” piping which must be joined by a trained person using a special heat fusing installation method.

Metal gas pipe must be factory wrapped if installed underground. After installation, the metallic fittings must be coated with an approved primer and spirally wrapped with an approved 10 mil tape to a minimum thickness of 40 mil. The tape should be no wider than 2 inches.

The minimum burial depth of non-metallic piping is 18 inches and 12 inches for metal pipe. Plastic pipe must also have a minimum 18 gauge with insulation approved for direct burial copper tracer wire or equivalent installed in the trench and attached to the pipe. Each end of the wire must extend above finish grade.

Risers coming out of the ground, including prefabricated risers, shall be metallic and wrapped or coated to a point at least 6 inches above grade. When a riser connects to underground plastic pipe, the underground horizontal metallic portion of the riser shall extend at least thirty inches before connecting to the plastic pipe. Metal to plastic pipe must be done by means of an approved transition fitting or adapter.

Underground metal pipe must be electrically isolated from the rest of the gas system with listed or approved isolation fittings installed a minimum of 6 inches above grade.

#### **Inspection requirements:**

Unless otherwise approved, the entire trench and line must be open and exposed for inspection.

The line must be pressure tested at a minimum of 10 psi for 15 minutes with no drop in pressure. Have the line under pressure before the inspector arrives at the site.

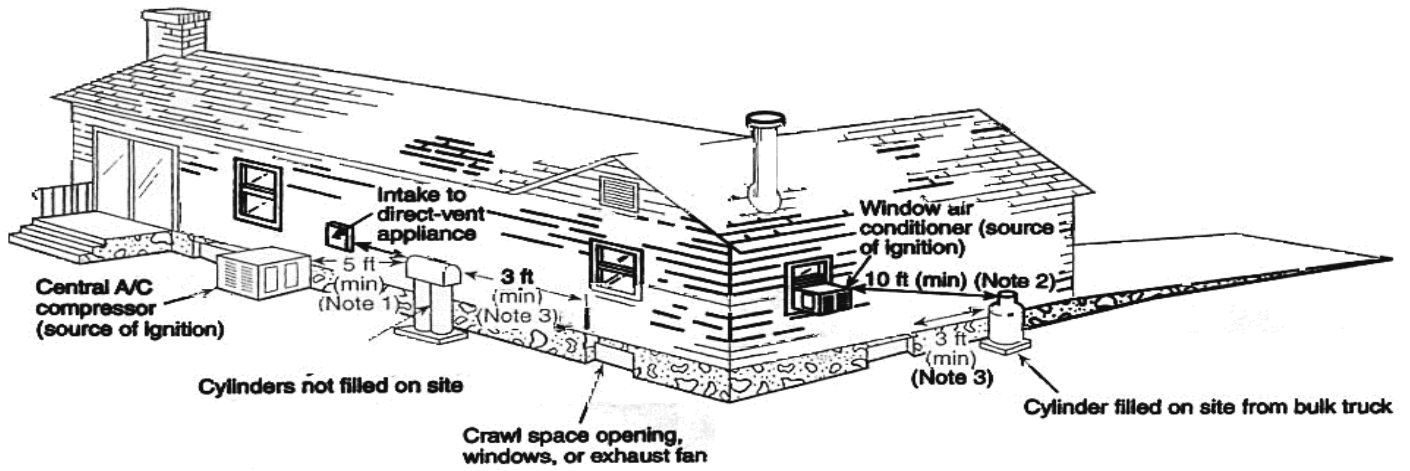
#### **Tank Locations:**

LP Cylinders are to be located in accordance with the following Figure I.1(a).

Aboveground LP tanks are to be located in accordance with Figure I.1(b)

**For Underground LP Tanks, See Information Bulletin IB-202.**

**FIGURE I.1(a) Cylinders.** *(This figure for illustrative purposes only; code shall govern.)*



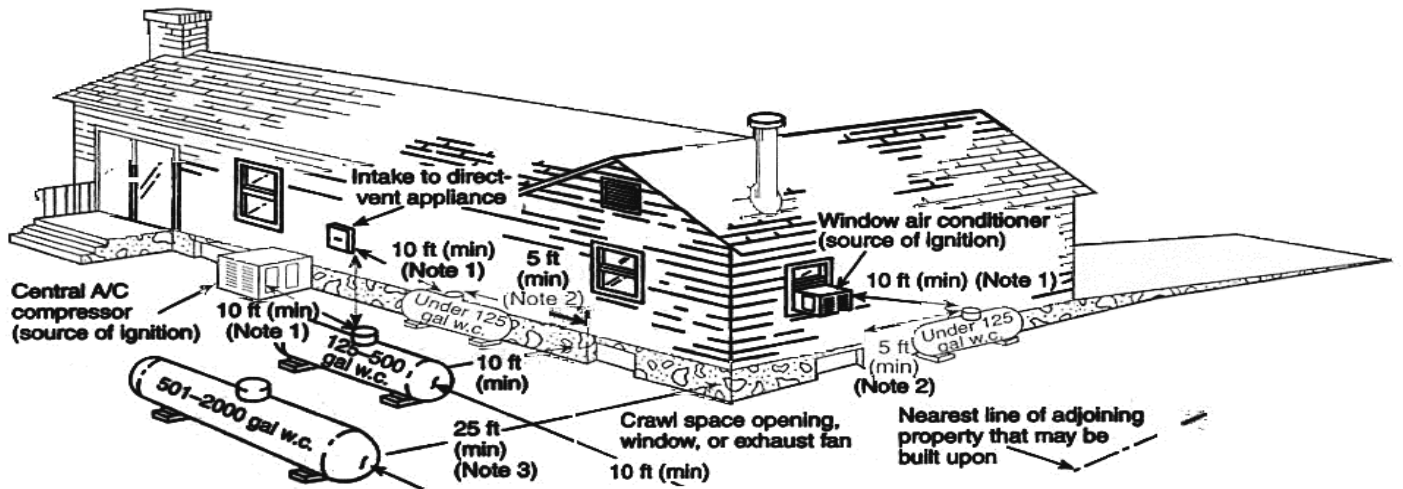
For SI units: 1 ft = 0.3048 m

**Note 1:** 5-ft minimum from relief valve in any direction away from any exterior source of ignition, openings into direct-vent appliances, or mechanical ventilation air intakes. Refer to 3.2.2.2(b).

**Note 2:** If the cylinder is filled on site from a bulk truck, the filling connection and vent valve must be at least 10 ft from any exterior source of ignition, openings into direct-vent appliances, or mechanical ventilation air intakes. Refer to 3.2.2.2(e).

**Note 3:** Refer to 3.2.2.2(b).

**FIGURE I.1(b) Aboveground ASME containers.** *(This figure for illustrative purposes only; code shall govern.)*



For SI units: 1 ft = 0.3048 m

**Note 1:** Regardless of its size, any ASME container filled on site must be located so that the filling connection and fixed maximum liquid level gauge are at least 10 ft from any external source of ignition (e.g., open flame, window A/C, compressor), intake to direct-vented gas appliance, or intake to a mechanical ventilation system. Refer to 3.2.2.2(d).

**Note 2:** Refer to 3.2.2.2(d)

**Note 3:** This distance may be reduced to no less than 10 ft for a single container of 1200 gal (4.5 m<sup>3</sup>) water capacity or less, provided such container is at least 25 ft from any other LP-Gas container of more than 125 gal (0.5 m<sup>3</sup>) water capacity. Refer to 3.2.2.2 Exception No. 2.