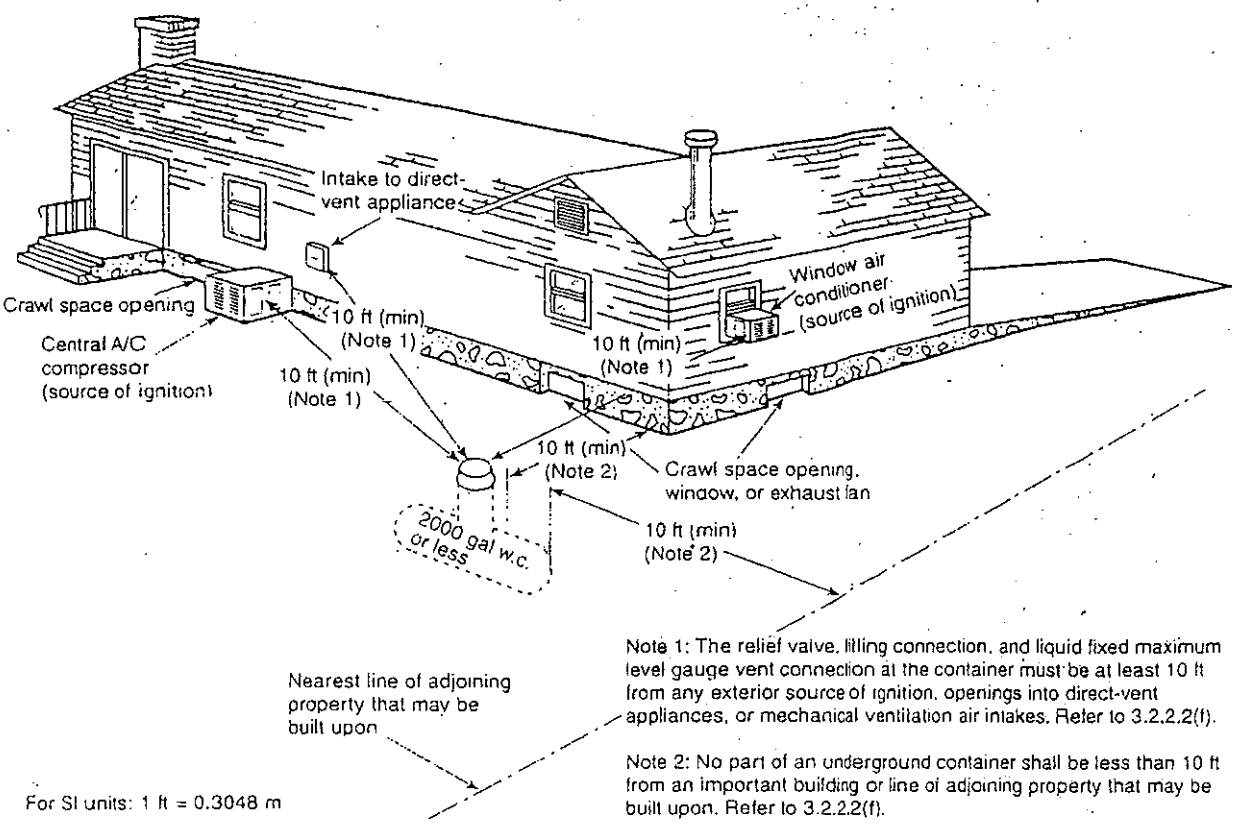
FIGURE I.1(c) Underground ASME containers. *(This figure for illustrative purposes only; code shall govern.)*




## SECTION 2611
## LIQUEFIED PETROLEUM GAS SYSTEMS

**2611.1 Pressure regulating valves.** Pressure regulating valves for LPG systems shall be listed and labeled in accordance with UL 144.

**2611.2 Location of containers.** Aboveground LPG tanks shall be located in accordance with Table 2611.2.

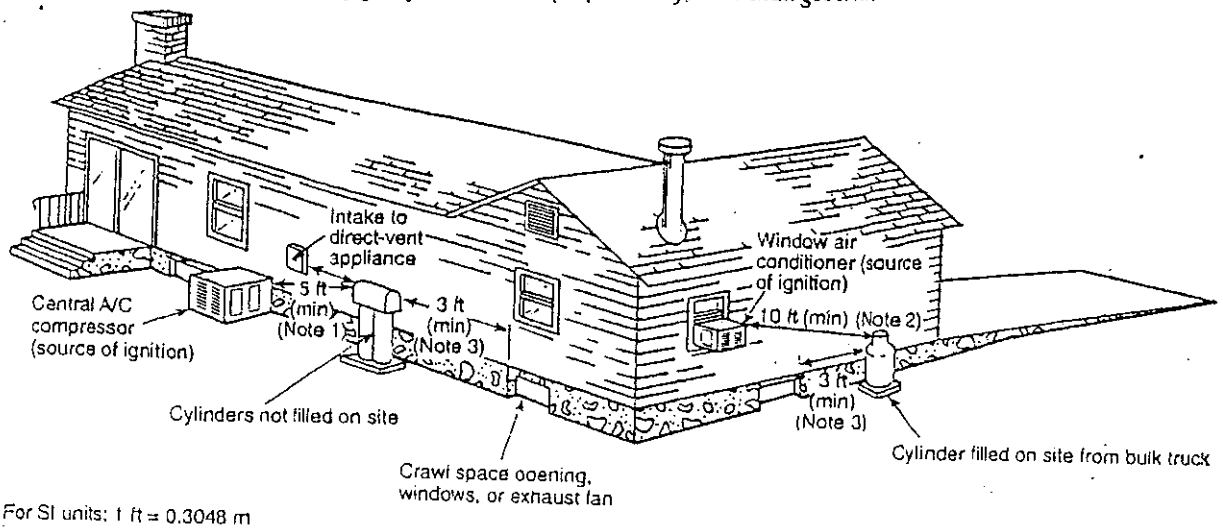
**2611.3 Multicontainer installations.** Multicontainer installations comprised of individual containers having a water capacity of less than 125 gallons (473 L) each shall comply with Table 2611.2 by applying the capacity per container rather than aggregate capacity when such aggregate is 500 gallons (1893 L) or less.

**2611.4 Underground containers.** Underground containers shall be approved for underground placement. No part of an underground container shall be less than 10 feet (3048 mm) from basements, structures which extend below ground level or adjoining property lines.

## SECTION 2612
## TESTING

**2612.1 Detection of leaks and defects.** A loss of test pressure as indicated by pressure gages shall be deemed to indicate the presence of a leak. The leak shall be located by means of an approved combustible gas detector or soap and water. Matches, candles or open flames shall not be used. When soap and water are used, the piping shall be rinsed with water after testing. Vent limiting devices shall not be tested with a liquid test solution, which could contaminate the internal mechanism or plug the breathing hole. When leaks or other defects are located, the affected portion of the piping system shall be repaired or replaced, and the piping system shall be retested.

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



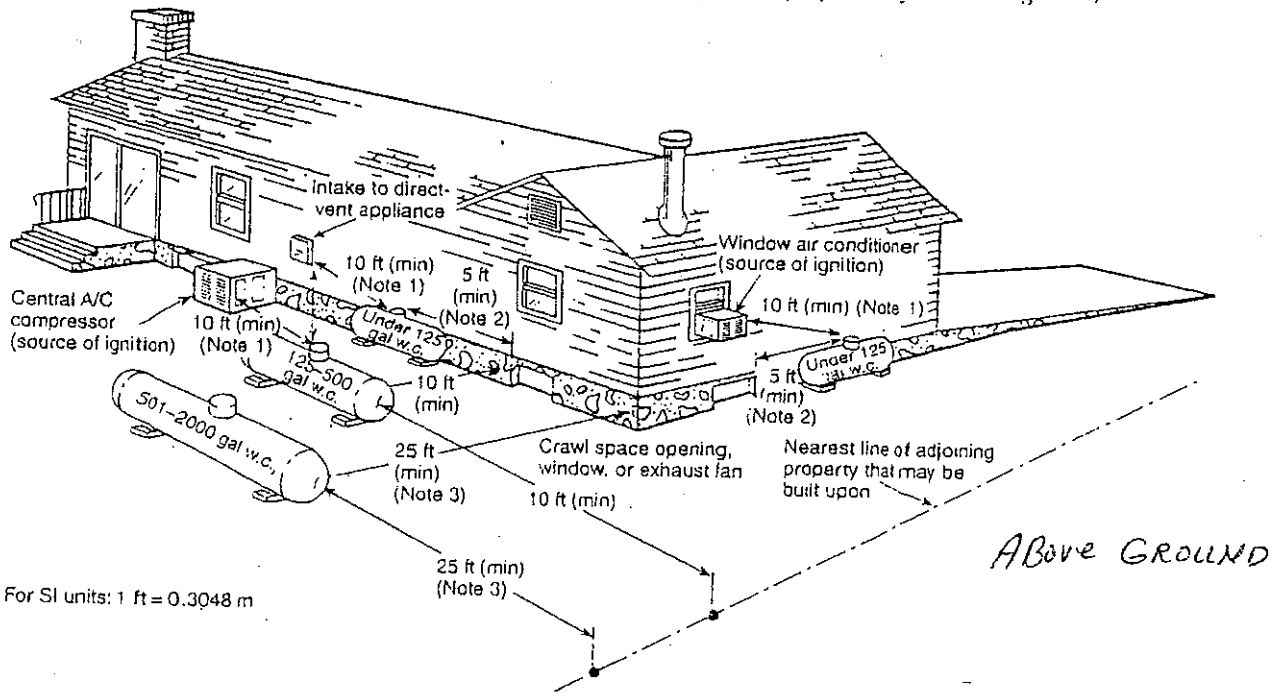

For SI units: 1 ft = 0.3048 m

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(d).

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(c)

Note 3: This distance may be reduced to no less than 10 ft for a single container of 1200 gal (4.5 $m^3$) 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 $m^3$) water capacity. Refer to 3.2.2.2(e).

TABLE 2611.2
LPG TANK LOCATIONS

| CONTAINER TYPE | SIZE (Water capacity in gallons) | MINIMUM HORIZONTAL DISTANCE FROM: | | | |
|---|---|---|---|---|---|
| | | Tank to Buildings, Structures or Property Lines (feet) | Pressure-relief Device to Building Openings (feet) | Pressure-relief Device to Sources of Ignition or Vents (feet) | Fill Connection and Gage Vent to Sources of Ignition or Vents (feet) |
| DOT Exchanged | Less than 125 | None | 3 | 5 | — |
| DOT Site Filled | Less than 125 | None | 3 | 5 | — |
| ASME | Less than 125 | None | 3 | 5 | 10 |
| ASME | 125 to 500 | | | 5 | 10 |