

Tiki Island LPG Guidelines

Installation of Liquid Petroleum Gas Containers: It shall be unlawful for any person to store, possess, or locate on any property within the Village of Tiki Island, any LPG storage container (**larger than 25 LPG gallons**) unless such container is anchored to a reinforced concrete foundation that is 1&1/2 times the weight of the container full of water. Anchors shall be embedded in the concrete, equally spaced and adequately attached to the container. Shut off valves are required. Tank must not be closer than 5 feet from the property side lot line and not in a utility easement. If the tank is located in or near a driveway or approachable by a vehicle, protection such as curbing or bollards may be required. The tank must not be unsightly!

All Tanks must be in compliance with the current Texas Railroad Commission Regulations to include Tiki Island LPG Ordinance 6-152. Compliance approval is required from a licensed LPG provider and Tiki Island Building Inspector, It is recommended to get all approvals before permitting or purchasing a tank.

Permits and Registration Requirements: Permits must be completed and returned with a Plot Plan on current survey showing the dimensions, location and size of LPG container, all buildings, driveways, ignition sources including electrical. A permit shall be issued by the building inspector conditioned upon compliance verification. The permit will be valid for a term of 2 years from date of issuance, after such time the permit must be renewed and an onsite inspection performed for continued compliance. The initial permit fee is **\$100.00** and includes all necessary inspections and registration. The 2 year renewal and inspection fee is **\$50.00**.

Required: Minimum of Two Inspections

1. First on-sight Inspection – Inspection to include pad location, foundation steel and size verification before pouring. Check location of surrounding enclosures, combustibles and ignition source's. Notify building inspector of pour date.
2. Second or Final Inspection. To include anchor bolts and all necessary plumbing to be tested and completed.

Tank and Foundation Pad Information:

100 lb Upright or (Vertical) Tank or (Cylinder)
(holds 22.9 gal of LPG or 28.7 gal wtr= 240 lb wtr)

Pad: 14 cubic ft (1.2 yard) of concrete to include #3 rebar on 6" centers both ways with minimum of 2" concrete coverage over all steel.

Anchors: All stainless steel – minimum of 2 pc X ½ eye bolts with nut and washer tied to rebar embedded min 4" in concrete, with ¼" stainless steel cable and hardware or (3/16" cable is acceptable of doubled, total of 4 cables) through the lifting ring located at the top of the tank or an equivalent method.

420 lb Upright or (Vertical) Tank or (Cylinder)

(holds 101.15 gal of LPG or 119 gal wtr = 994 lb wtr)

Pad: 18 cubic ft (3/4 yard) of concrete to include #3 (3/8") rebar on 6" centers both tied to rebar embedded min of 4" in concrete coverage over all steel.

Anchors: All stainless steel – minimum of 2 pc X 1/2" eye bolts with nut and washer tied to rebar embedded min of 4" in concrete, with 1/4" stainless steel cable and hardware through the lifting ring located at the top of the tank.

All Others:

120 gal Horizontal Tank (holds 102 gal of LPG or 120 gal wtr = 1,002 lb wtr)

150 gal Horizontal Tank (holds 127.5 gal of LPG or 120 gal wtr = 1252.5 lb wtr)

250 gal Horizontal Tank (holds 212.5 gal of LPG or 150 gal wtr = 2087.5 lb wtr)

Pad: 27 cubic ft (1 yard) of concrete to include #5 (1/2") rebar on 6" centers both ways with minimum 2" concrete coverage over all steel.

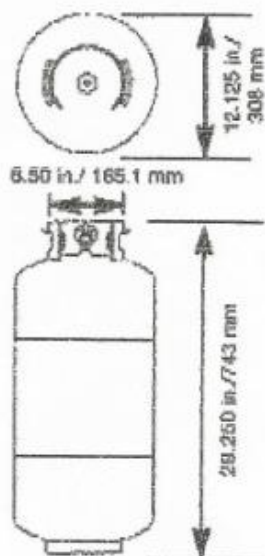
Anchors: All stainless steel – minimum of 4 anchors X 5/8" bolts with nut and washer tied to rebar or J hooks, embedded min of 4" in concrete, bolted through legs on bottom of tank to include a spacer between leg and concrete to help control corrosion or you can use 1/4" stainless steel cable (total of 4) and hardware through the lifting eyes located on the top ends of the tank. Or an equivalent method.

Safety Tips: *Turn off main valve not in use or when away for extended periods of time, especially at evacuation times. Inform family, friends and guests of valve location and proper usage procedures. In the event you smell gas evacuate interior immediately and turn the outside main cut-off valve off.*

EVERY HOUSE SHOULD HAVE A "VISIBLE" CHARGED FIRE EXTINGUISHER!

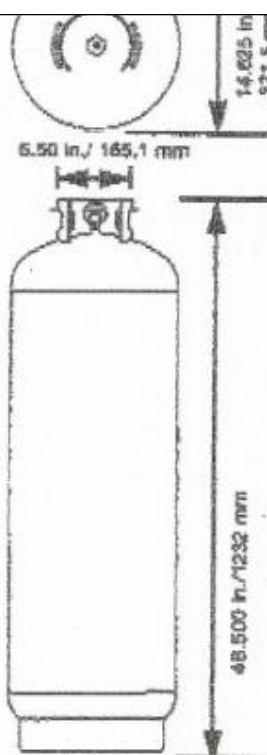
LPG sizing information

This size or smaller is exempt from LPG Ordinance and considered portable



40 LB. LPG CYLINDER

LPG Capacity 9.4 gal./ 35.5 liters
Water Capacity 95.3 lb./ 43.2 kg
Tare Weight 29.2 lb./ 13.2 kg
Cyl. volume . . 2644 cu. in./ 43.2 liters
Collar Height 4.0 in./ 101.6 mm
Footring Dia. . o/s 7.812 in./ 198.4 mm
DOT-4BW240



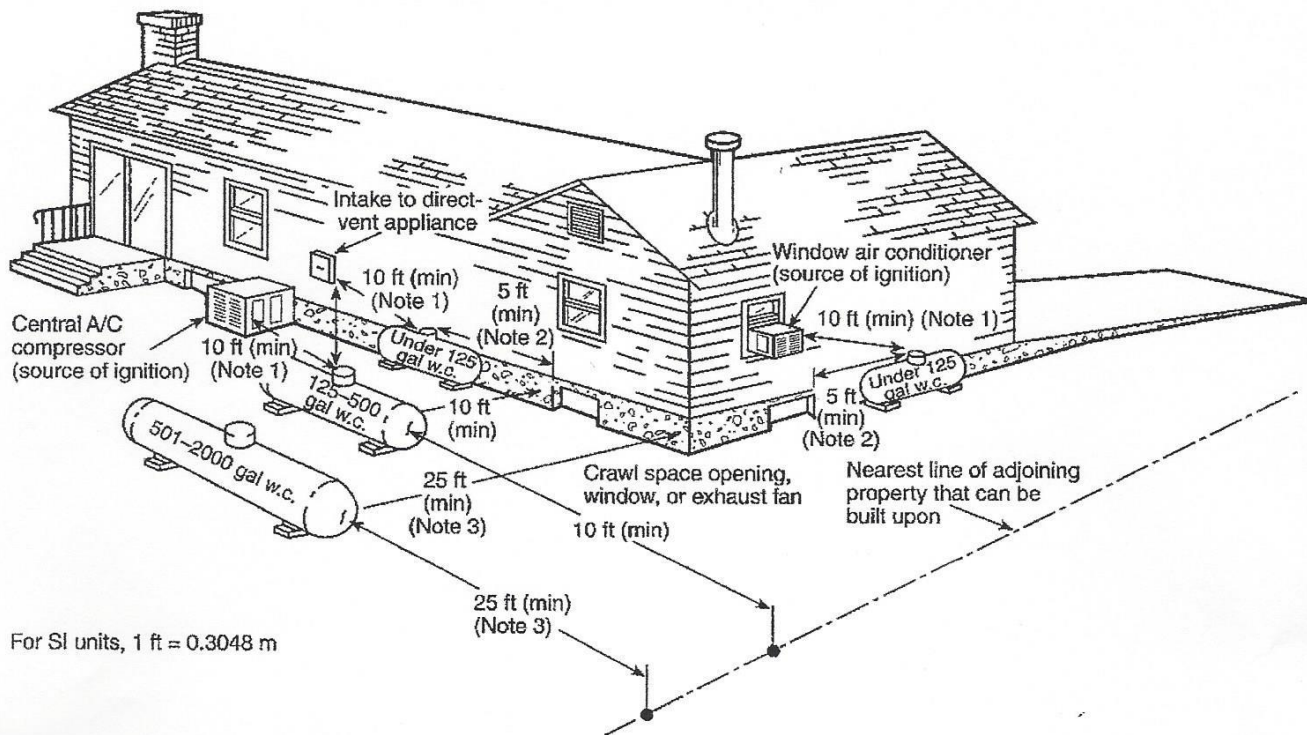
100 LB. LPG CYLINDER

LPG Capacity . . . 22.9 gal./ 86.7 liters
Water Capacity 240 lb./ 108.1 kg
Tare Weight 72.0 lb./ 32.6 kg
Cyl. volume . 6596 cu. in./ 108.1 liters
Collar Height 5.125 in./ 130.2 mm
Footring Dia. . o/s 14.5 in./ 368.3 mm
DOT-4BW240



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STANDARDS FOR INSTALLTION OF PROPANE TANKS



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 6.3.9.

Note 2: Refer to 6.3.9.

Note 3: This distance may be reduced to no less than 10 ft for a single container of 1200 gal (4.5 m³) water capacity or less, provided such container is at least 25 ft from any other L.P.-Gas container of more than 125 gal (0.5 m³) water capacity. Refer to 6.3.3.

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

NFPA 58 Table 6.3.1 Separation distanced between containers, important buildings and other properties.

Water Capacity per Container	Minimum Distances		
	Mounded or Underground Containers ^a	Aboveground Containers ^b	Between Containers ^c
Gallons	Feet	Feet	Feet
<125 ^d	10	0 ^e	0
125 – 250	10	10	0
251 – 500	10	10	3
501 – 2000	10	25	3
2001 – 30,000	50	50	5

^aFootnote a: Distances for mounded or underground tanks shall be measured from the pressure relief valve and the filling connection. No part of an underground ASME container shall be less than 10-ft from a building or property line that can be built upon. (NFPA58 6.3.4)