

2.3. LPG System Equipment

2.3.1. LPG Cylinders

2.3.1.1. There are generally 5 sizes of LPG cylinders being used in UAE. 2 Kg, 5 Kg, 12Kg, 22 Kg and 44 Kg capacity cylinders. 2 Kg and 5 Kg cylinders are used by campers and picnickers. 22 Kg cylinders are generally used for domestic and household cooking purposes. The 44 Kg cylinders are used by commercial kitchens and restaurants.

2.3.1.2. LPG Cylinders shall be listed and approved by Civil Defence. The Civil Defence approval is based on the cylinder designs and fabrications tested and approved by Civil Defence laboratories with the test standards as per **Section 6** of this chapter.

2.3.1.3. LPG Cylinders shall be inspected and revalidated by manufacturers and LPG suppliers every 5 years. Any cylinder that fails in verification of any of the following criteria, shall not be refilled or continued in service.

- a. The cylinder is checked for exposure to fire, dents, cuts, digs, gouges, and corrosion.
- b. Aluminum Cylinders or parts involved in fire and heat exposure shall be permanently removed from service.
- c. The cylinder protective collar (where utilized) and the foot ring are intact and are firmly attached.
- d. The cylinder is painted or coated to retard corrosion.
- e. The cylinder pressure relief valve indicates no visible damage, corrosion of operating components, or obstructions.
- f. There is no leakage from the cylinder or its appurtenances that is detectable without the use of instruments.
- g. The cylinder is installed on a firm foundation and is not in contact with the soil.
- h. A cylinder that passes the visual examination shall be marked with the month and year of the examination with requalification label.
- i. The results of the visual inspection shall be documented, and a record of the inspection shall be retained for a 5-year period. Stamped copies shall be with both supplier and owner.
- j. Cylinders shall incorporate protection against physical damage to cylinder appurtenances and immediate connections to such appurtenances when not in use
- k. Cylinders shall be marked as provided in the regulations, rules, or code under which they are fabricated.

2.3.2. LPG Tanks

2.3.2.1. There are generally various sizes of LPG Tanks being used in UAE, 120 Gal, 500 Gal, 1000 Gal, 2000 Gal. 10,000 to 30,000 Gal tanks are also installed for industrial usage or huge developments fuel supplies.