

Table 11.5: Aboveground LPG Tank Installation Guideline

ITEMS	REQUIREMENTS
3. QUANTITY ALLOWED FOR ABOVE-GROUND TANKS	<ul style="list-style-type: none"> i. Maximum allowed quantity for above ground LPG Tanks is 72,000 Gal. tank in one location. Such quantity can be either in one tank or aggregate of multiple LPG tank capacities. ii. More than 72,000 Gal. capacity of LPG containers shall be subdivided into groups of LPG tank or tanks, not exceeding 72,000 Gal. capacities and such groups shall be 15 m apart from each other.
4. SEPARATION DISTANCES FOR ABOVE GROUND LPG TANKS	<ul style="list-style-type: none"> i. Above ground LPG Tank separation shall be as per Table 11.6.a. ii. Industrial Above ground LPG Tank separation distances shall be as per Table 11.6.b. The Fire walls if provided shall be of 1 hour fire rated and shall be constructed around LPG Tanks with a minimum height of 2 m. iii. Above ground LPG Tanks shall be separated from Flammable liquids containers as per Table 11.6.c. iv. Above ground LPG Tanks shall be separated from Liquid Oxygen containers as per Table 11.6.d. v. The tank separation distances mentioned in Table 11.6.a., 11.6.b., 11.6.c. and 11.6.d. shall be from above ground LPG tank surface to any point of structure, building, compound wall, Public road, other equipment, exit roads, fire truck accessway, assembly points, parking lot, drains, shaft openings, pits, opening to basements, ramp openings. vi. 6 m distance shall be maintained from tank surface to any Air intake units, Window type and Split Type AC units, Air vents, Balanced type flue outlets. vii. 10 m distance shall be maintained from tanks to Fire Hydrant, fire fighting equipment, fire fighting valves, fire command centers. viii. An above ground LPG tank and any of its parts shall not be located within 1.8 m of a vertical plane beneath overhead electric power lines that are over 600 volts. ix. There shall be no vegetation, dry grass and combustible material within 3 m around the surface where above ground tank is located. x. Where Fire walls are accepted by Civil Defence, Fire walls should be provided only on one side and not be provided on more than two sides. In all cases the natural ventilation should not be significantly impaired. Where two fire walls are being considered the Civil Defence shall be consulted.
5. FIRE PROTECTION FOR ABOVE GROUND TANKS	<ul style="list-style-type: none"> i. Above ground LPG tank shall be provided with fixed water spray system. The fire pump and water tank shall be from the building that the LPG tank is serving. Water spray system design and installation shall comply with Chapter 9. ii. Where fire pump and fire water tank is not available in the building that the LPG tank is serving, Dry type water spray ring with open nozzles, connected to Civil Defence breaching inlet, shall be provided. Such system design and installation shall comply with Chapter 9.

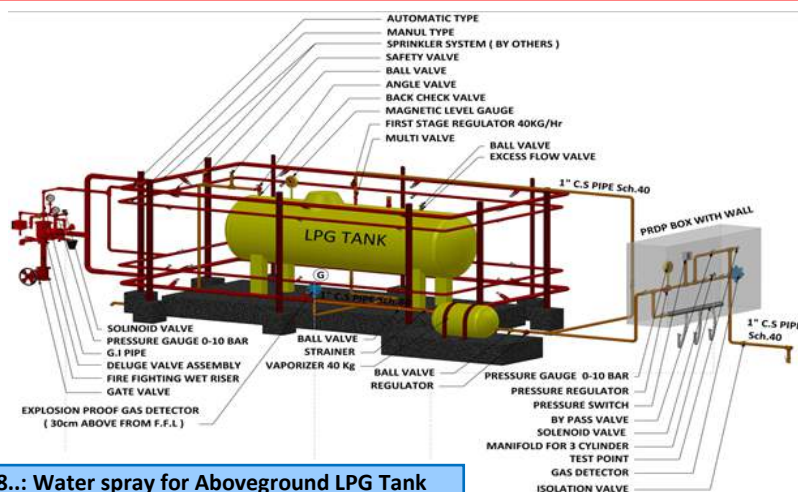


Figure 11.8: Water spray for Aboveground LPG Tank