

building exterior wall, building projections, central air-conditioning condenser, ventilation air intake, appliance combustion intake/outlet, clothes dryer outlet, or window air conditioner. Tanks shall not be located underneath any building or structure.

**1212.4 Group Tanks.** The number of tanks in a group shall not exceed six. The distance between tanks having a water capacity equal to or less than 7,600L (2,000 gal.) shall be not less than 90cm (3 ft.). The distance between tanks having a water capacity exceeding 7,600L (2,000 gal.) shall be not less than half the sum of the tanks' diameter. The distance between tank groups shall be not less than 15m (50 ft.).

**1212.5 Coating.** The liquefied petroleum gas tank shall be provided with an external coating to protect against corrosion. One of the following materials shall be permitted as an external coating:

- (1) Epoxy.
- (2) Polyurethane.
- (3) Silicone.
- (4) Enamel.
- (5) Latex.
- (6) Coal tar mastic.

**1212.6 Limitation.** Each general purpose liquefied petroleum gas tank shall have a water capacity not exceeding 475,000L (125,000 gal.) and shall be constructed to withstand a gauge pressure of not less than 16bar (240 psi).

**1212.7 Prohibition.** Heating or cooling coils shall not be permitted to be installed inside tanks.

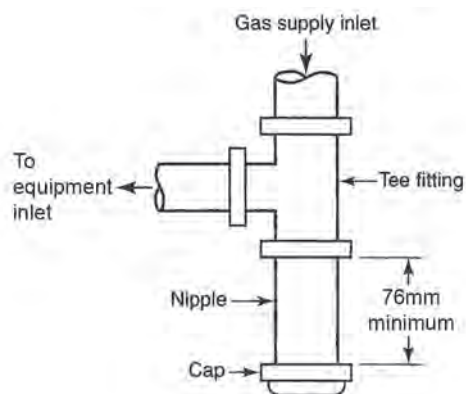
Liquefied petroleum gas tanks with excessive dents, gouges, and corruptions shall not be used.

**1212.8 Marking.** Liquefied petroleum gas tanks shall be marked with the following:

- (A) Date of manufacture.
- (B) Serial and model numbers.
- (C) Name, address, and phone number of supplier.
- (D) Shell and head thickness.
- (E) Dimensions: length, outside diameter, and outside tank surface area.
- (F) Water capacity in liters (gal.).
- (G) Type of installation (underground, above ground or both).
- (H) Maximum pressure allowed at 38°C (100°F).

**1212.8.1 Regulations.** Tanks shall meet the regulations, code, and rules under where they were constructed.

**1212.9 LP Gas Piping.** Liquefied petroleum gas pipes, joints, and fittings shall be installed in accordance with this code. Plastic piping for LP gas shall



SI: 1mm = 0.04 in.

**Figure 12-1 Method of Installing a Tee Fitting Sediment Trap.**

be installed outdoors 30cm (12 in.) below grade. When the grade cannot be met, plastic piping shall be shielded or protected with conduit.

**1212.10 Protection and Security.** Tanks located in public areas shall be protected with secured ventilated metal enclosures having an outdoor rating. When the enclosure exceeds 9.3m<sup>2</sup> (100 ft.<sup>2</sup>), not less than two egresses shall be provided. Tanks shall be painted to prevent any corrosion.

**1212.10.1 Fire Protection.** Fire sprinkler systems shall be provided with an inside enclosure where a tank having a 15,000L (2,000 gal.) capacity is installed.

**1212.10.2 Lighting.** Illumination shall be provided inside the enclosure.

**1212.11 Safety Devices.** Safety devices shall be installed in a compartment, protected from weather and mud. Safety devices shall be made from noncombustible materials.

**1212.11.1 Regulator.** Liquefied petroleum gas tanks shall be installed with a regulator.

**1212.11.2 Pressure Relief Valve.** Liquefied petroleum gas tanks shall be installed with a pressure relief valve.

**1212.11.3 Pressure Gauge and Excess Flow Valve.** A pressure gauge shall be provided and be installed directly to a valve that is connected directly to the tank opening. When the opening exceeds a No. 45 drill size 1.4 mm (0.055 in.), an excess flow valve shall be provided.

## **1213.0 Pressure Testing and Inspection.**

### **1213.1 General.**

**1213.1.1** Prior to acceptance and initial operation, piping installations shall be inspected and pressure-tested to determine that the materials,