

**Table 6.3.1 Separation Distances Between Containers, Important Buildings, and Line of Adjoining Property That Can Be Built Upon**

Water Capacity per Container		Minimum Distances					
		Mounded or Underground Containers <sup>a</sup>		Aboveground Containers <sup>b</sup>		Between Containers <sup>c</sup>	
		ft	m	ft	m	ft	m
gal	m <sup>3</sup>						
<125 <sup>d</sup>	<0.5 <sup>d</sup>	10	3	0 <sup>e</sup>	0 <sup>e</sup>	0	0
125-250	0.5-1.0	10	3	10	3	0	0
251-500	>1.0-1.9	10	3	10	3	3	1
501-2,000	>1.9-7.6	10	3	25 <sup>f</sup>	7.6	3	1
2,001-30,000	>7.6-114	50	15	50	15	5	1.5
30,001-70,000	>114-265	50	15	75	23		
70,001-90,000	>265-341	50	15	100	30	¼ of sum of	
90,001-120,000	>341-454	50	15	125	38	diameters of	
120,001-200,000	>454-757	50	15	200	61	adjacent	
200,001-1,000,000	>757-3785	50	15	300	91	containers	
>1,000,000	>3785	50	15	400	122		

<sup>a</sup> See 6.3.4.

<sup>b</sup> See 6.3.11.

<sup>c</sup> See 6.3.10.

<sup>d</sup> See 6.3.9.

<sup>e</sup> See 6.3.7 and 6.3.8.

<sup>f</sup> See 6.3.3.

**Table 6.3.8 Separation Distance Between Container Pressure Relief Valve and Building Openings**

Container Type	Exchange or Filled on Site at the Point of Use	Distance Horizontally from Relief Valve		Discharge from Relief Valve, Vent Discharge, and Filling Connection to Exterior Source of Ignition, Openings into Direct-Vent Appliances, and Mechanical Ventilation Air Intakes	
		Discharge to Opening Below Discharge			
		ft	m	ft	m
Cylinder	Exchange	3	0.9	5	1.5
Cylinder	Filled on site at the point of use	3	0.9	10	3.0
ASME	Filled on site at the point of use	5	1.5	10	3.0

**6.3.9** The distance measured in any direction from the point of discharge of a container pressure relief valve, vent of a fixed maximum liquid level gauge on a container, and the container filling connection to exterior sources of ignition, openings into direct-vent (sealed combustion system) appliances,

and mechanical ventilation air intakes shall be in accordance with Table 6.3.8.

**6.3.10** Access at the ends or sides of individual underground containers having a water capacity of 125 gal (0.5 m<sup>3</sup>) or more shall be provided in multicontainer installations to facilitate working with cranes or hoists.

**6.3.11** The horizontal distance between the portion of a building that overhangs out of the building wall and an ASME container of 125 gal (0.5 m<sup>3</sup>) or more water capacity shall comply with the following:

- (1) The horizontal distance shall be measured from a point determined by projecting the outside edge of the overhanging structure vertically downward to grade or other level upon which the container is installed.
- (2) The horizontal distance specified in 6.3.11(1) shall be at least 50 percent of the separation distance required in Table 6.3.1.
- (3) The horizontal distance requirement shall apply only when the overhang extends more than 5 ft (1.5 m) from the building.
- (4) The horizontal distance requirement shall not apply when the overhanging structure is 50 ft (15 m) or more above the relief valve discharge outlet.
- (5) The horizontal distance requirement shall not apply to ASME containers of 2001 gal through 30,000 gal (7.6 m<sup>3</sup> through 114 m<sup>3</sup>) water capacity where the container distance from a building is in accordance with 6.26.2.

#### 6.4 Other Container Location Requirements.

**6.4.1** Where storage containers having an aggregate water capacity of more than 4000 gal (15.1 m<sup>3</sup>) are located in heavily populated or congested areas, the siting provisions of 6.3.1 and Table 6.3.1 shall be permitted to be modified as indicated by the fire safety analysis described in 6.25.3.

