

Figure: 16 TAC §9.403(a)

§9.403 Table--Sections in NFPA 58, 2017 Edition, Not Adopted by Reference, or Adopted With Changes, Additional Requirements, or Corrections

Affected NFPA 58 Section	Specific Action	Commission Rule(s) to be Followed or Other Comments (underlining shows added language; strike-outs show deleted language)
3.2.2	additional requirement	In addition to definition for "Authority Having Jurisdiction," see Commission rule §9.402(a), Clarification of Certain Terms Used in NFPA 58.
4.3.1	not adopted	See Commission rules §9.27, Application for an Exception to a Safety Rule, and §9.101, Filings Required for Stationary LP-Gas Installations.
4.3.3	additional requirement	See Commission rule §9.101(b), Filings Required for Stationary LP-Gas Installations.
4.4	additional requirement	See Commission rules §§9.8, Requirements and Application for a New Certificate and 9.51, General Requirements for Training and Continuing Education.
5.2.1.1	additional requirement	See Commission rules §9.135, Unsafe of Unapproved Containers, Cylinders, or Piping, and §9.137, Inspection of Containers at Each Filling.
5.2.1.11	additional requirement	See Commission rule §9.116, Container Corrosion Protection System.
5.2.2	additional requirement	See Commission rules §9.135, Unsafe of Unapproved Containers, Cylinders, or Piping, and §9.137, Inspection of Containers at Each Filling.

Affected NFPA 58 Section	Specific Action	Commission Rule(s) to be Followed or Other Comments (underlining shows added language; strike-outs show deleted language)
5.2.4.2	additional requirement	See Commission rule §9.131, 200 PSIG Working Pressure Stationary Vessels.
5.2.8.1	additional requirement	See Commission rules §9.140(f), Table 1, System Protection Requirements, and §9.141(e), Uniform Safety Requirements.
5.2.8.3 (A) and (B)	not adopted	See Commission rule §9.129, Manufacturer's Nameplate and Markings on ASME Containers.
5.2.8.3(C)	additional requirement	See Commission rule §9.129, Manufacturer's Nameplate and Markings on ASME Containers.
5.2.8.5	with changes	All containers that contain unodorized LP-gas products shall be marked "NOT ODORIZED" or " <u>NON-ODORIZED</u> ".
5.9.2.5(A)	additional requirement	See Commission rule §9.131, 200 PSIG Working Pressure Stationary Vessels.
5.9.4.1	additional requirement	See Commission rule §9.143(c), Piping and Valve Protection for Stationary LP-Gas Installations with Individual or Aggregate Water Capacities of 4,001 Gallons or More.
Table 5.9.4.1(B)	with changes	Heading: Container Connection and Appurtenance Requirements [for Containers Used in Other Than Bulk Plants and Industrial Plants]
5.9.4.2	not adopted	See Commission rule §9.126(d), Appurtenances and Equipment.
Table 5.9.4.2	not adopted	See Commission Rule §9.126(d), Appurtenances and Equipment.

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5.9.7.1	with changes	Other container openings shall be equipped with any of the following: (1) - (5) (No change) <u>(6) For reducing the size of a container opening, only one bushing with a minimum pressure rating in accordance with Table 5.11.4.1 shall be installed.</u>
5.11.5	additional requirement	See Commission rule §9.308(d), Installation of Piping.
5.11.6	additional requirement	See Commission rule §9.143(g), Piping and Valve Protection for Stationary LP-Gas Installations with Individual or Aggregate Water Capacities of 4,001 Gallons or More.
5.11.6.5	additional requirement	See Commission rule §9.311, Special Exceptions for Agricultural and Industrial Structures Regarding Appliance Connectors and Piping Support.
5.23	additional requirement	See Commission rule §9.307, Identification of Converted Appliances.
6.2.2	with changes	LP-Gas containers shall be allowed in buildings only for the following applications: (1) - (7) (no change) [(8) Cylinders awaiting use, resale, or exchange when stored in accordance with Sections 8.2 and 8.3.]
6.4.1.1	additional requirement	See Commission rule §9.142, LP-Gas Container Storage and Installation Requirements.
6.4.1.2	not adopted	

Affected NFPA 58 Section	Specific Action	Commission Rule(s) to be Followed or Other Comments (underlining shows added language; strike-outs show deleted language)
6.5.1.1	with changes	Where [storage] containers [having an aggregate water capacity of more than 4000 gal (15.1 m³)] are located in heavily populated or congested areas, the siting provisions of 6.4.1.1 and Table 6.4.1.1 shall be permitted to be modified [as indicated] by the [fire safety analysis described in 6.29.3] <u>Commission</u> .
6.5.4.1	additional requirement	See Commission rule §9.141(f), Uniform Safety Requirements.
6.8.1.2	additional requirement	See Commission rule §9.140(d), System Protection Requirements.
6.8.1.4	additional requirement	See Commission rule §9.141(a), Uniform Safety Requirements.
6.8.2.1	with changes	Cylinders shall be installed only aboveground and shall be set upon a firm foundation of <u>concrete, masonry, or metal</u> and [or otherwise] be firmly secured <u>against displacement</u> . (See 6.8.2.2)
6.8.3.1	with changes	Horizontal ASME containers designed for permanent installation in stationary aboveground service shall be placed on masonry or other noncombustible structural supports located on concrete or masonry foundations with the container supports. <u>Containers shall not be in contact with the soil.</u>
6.8.6.1(A) – (E)	additional requirement	See Commission rule §9.140(d), System Protection Requirements.
6.8.6.1(I)	additional requirement	See Commission rule §9.116, Container Corrosion Protection System.
6.8.6.2(A)	additional requirement	See Commission rule §9.116, Container Corrosion Protection System.
6.8.6.2(F)	additional requirement	See Commission rule §9.140(d), System Protection Requirements.

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6.8.6.3(F)	additional requirement	See Commission rule §9.116, Container Corrosion Protection System.
6.10.2.3	with changes	Single-stage regulators shall not be installed in fixed piping systems <u>on or after February 1, 2001</u> [June 30, 1997], except for installations covered in 6.10.2.4.
6.11.3.10	with changes	Aboveground piping shall be supported and protected against physical damage <u>by</u> vehicles .
6.11.3.14	additional requirement	See Commission rule §9.116, Container Corrosion Protection System.
6.11.3.16	with changes	Underground metallic piping, tubing or both that convey LP-Gas from <u>an underground partially buried or mounded</u> [a] gas storage container shall be provided with dielectric fittings installed above ground and outdoors at the building to electrically isolate it from the aboveground portion of the fixed piping system that enters a building.
6.11.6.1	additional requirement	See Commission rule §9.143, Piping and Valve Protection for Stationary LP-Gas Installations with Individual or Aggregate Water Capacities of 4,001 Gallons or More.
6.11.6.3	with changes	Flexible metallic connectors shall not exceed 5 ft (1.5m) in overall length when used with liquid or vapor piping on stationary containers [of 2000 gal (7.6 m³) water capacity or less].
6.13.1	with changes	The requirements of 6.13.2 through 6.13.5 shall be required for internal valves in liquid <u>and/or vapor</u> service installed in containers of over 4000-gal (15.2-m ³) water capacity by July 1, 2003.

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6.13.2	with changes	Internal valves shall be installed in accordance with <u>Commission rule §9.126(d)</u> [5.9.4.2 and Table 5.9.4.2] on containers over 4000 gal (15.2 m3) water capacity.
6.13.3.1	with changes	Automatic shutdown of internal valves in liquid <u>and/or vapor</u> service shall be provided using thermal (fire) actuation.
6.13.4.1	with changes	At least one remote shutdown station for internal valves in liquid <u>and/or vapor</u> service shall be installed in accordance with the following: (1)-(3) (No change.)
6.13.5	not adopted	See Commission rule §9.140(f), System Protection Requirements, Table 1.
6.14	not adopted	See Commission rule §9.143, Piping and Valve Protection for Stationary LP-Gas Installations with Individual or Aggregate Water Capacities of 4,001 Gallons or More.
6.19.2	adopted with changes	6.19.2 Except for underground and mounded containers (see 6.8.6), all materials and equipment that are buried or mounded shall comply with one of the requirements in 6.19.2(A) through 6.19.2(C). (A) Materials and equipment shall be made of corrosion resistant material that are suitable for the environment in which they will be installed. (B) Materials and equipment shall be manufactured with a corrosion-resistant coating or have a coating applied prior to being placed into service. (C) See Commission rule §9.116, Container Corrosion Protection System [Materials and equipment shall have a cathodic protection system installed and maintained in accordance with 6.19.3].

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6.19.4	not adopted	
6.21.1	additional requirement	See Commission rule §9.113, Installation and Maintenance.
6.21.4.2	additional requirement	See Commission rule §9.140(c), System Protection Requirements.
6.22.3.2(3)	additional requirement	See Commission rule §9.140(c), System Protection Requirements.
6.22.9.3	not adopted	See Commission rule §9.1(e), Application of Rules, Severability, and Retroactivity.
6.22.9.4	not adopted	See Commission rule §9.1(e), Application of Rules, Severability, and Retroactivity.
6.25.2.4	with changes	The provision of 6.25.2.2 shall not apply to fixed electrical equipment at residential [or commercial] installations of LP-Gas systems or to systems covered by Section 6.26.
6.27.3.7	additional requirement	See Commission rule §9.140(c), System Protection Requirements.
6.27.3.8	with changes	The container liquid withdrawal opening used with <u>retail operated</u> vehicle fuel dispensers and <u>retail operated</u> dispensing stations shall be equipped with one of the following: (1) – (2) (No change)
6.27.3.13	with changes	Vehicular barrier protection (VBP) shall be provided for containers serving dispensers where those containers are located within 10 ft (3 m) of a vehicle thoroughfare or parking location in accordance with <u>§9.140(d), System Protection Requirements</u> [6.27.3.13(A) or 6.27.3.13(B)]. (A)-(B) not adopted

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6.27.3.14	additional requirement	See Commission rule §9.140(d), System Protection Requirements.
6.27.3.15	additional requirement	See Commission rule §9.140(d), System Protection Requirements.
6.27.3.16	with changes	A listed quick-acting shutoff valve <u>or a listed quarter turn ball valve with a locking handle</u> shall be installed at the discharge end of the transfer hose.
6.27.3.17	additional requirement	See Commission rule §9.140(f), System Protection Requirements, Table 1.
6.27.4.1	additional requirement	See Commission rule §9.141(b)(3), Uniform Safety Requirements.
6.27.4.2	additional requirement	See Commission rule §9.141(b), Uniform Safety Requirements.
6.27.5.2	with changes	<u>Vehicles complying with Chapter 12 shall be refueled</u> [Vehicle fuel dispensers shall be equipped] with <u>vehicle fuel dispensers in compliance with 6.27.5.1 and may have reduced distances per 6.30.5.1 if equipped for</u> low-emission transfer [systems] in accordance with 6.30.5.3.
6.29.1	with changes	Section 6.29 shall apply to fire protection for industrial plants, bulk plants and dispensing systems <u>with an aggregate water capacity greater than 4,000 gallons.</u>
6.29.3.1	with changes	Fire protection shall be provided for installations with an aggregate water capacity of <u>10,000 gallons or more</u> [than 4000 gal (15.2 m³)]-and for ASME containers on roofs.

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6.29.3.2	with changes	The modes of fire protection shall be specified in a written fire safety analysis for new installations, for existing installations that have an aggregate water capacity of <u>10,000 gallons or more</u> [than 4000 gal (15.2 m³)], and for ASME containers on roofs. <u>Installations</u> [Existing installations] shall comply with this requirement <u>by September 1, 2022</u> [within 2 years of the effective date of this code].
6.29.3.3	with changes	The fire safety analysis shall be submitted by the owner, operator, or their designee to the authority having jurisdiction, <u>upon request</u> , and local emergency responders.
6.30	with changes	Alternate Provisions for Installation of <u>Underground and Mounded</u> ASME Containers
7.2.2.16	additional requirement	See Commission rule §9.137, Inspection of Cylinders at Each Filling.
7.2.3.8	additional requirement	See Commission rule §9.143(c)(2), Piping and Valve Protection for Stationary LP-Gas Installations with Individual or Aggregate Water Capacities of 4,001 Gallons or More.
7.4.2.1	additional requirement	See Commission rule §9.136, Filling of DOT Containers.

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7.4.3.1	with changes	<p>The volumetric method shall be limited to the following containers, where they are designed and equipped for filling by volume:</p> <p>[(1) Cylinders of less than 200 lb (91 kg) water capacity that are not subject to DOT jurisdiction]</p> <p>(2) Cylinders of <u>101 lb LP-gas capacity</u> [200 lb (91 kg) water capacity] or more</p> <p><u>(3) Cargo tanks or portable tanks</u></p> <p><u>(4) ASME and API-ASME containers complying with 5.2.1.1 or 5.2.4.2</u></p>
8.2.1.1	additional requirement	See Commission rule §9.140(c), System Protection Requirements.
8.3.1	not adopted	
Table 8.3.1(a)	not adopted	
Table 8.3.1(b)	with changes	<p>Heading: Maximum Allowable Storage Quantities of LP-Gas in [Mercantile,] Industrial, and Storage Occupancies</p> <p>Column (2) (Mercantile) Not Adopted</p>
8.3.2	not adopted	See Commission rule §9.1(e), Application of Rules, Severability, and Retroactivity.
8.4.1.1	additional requirement	See Commission rule §9.141(i), Uniform Safety Requirements.
8.4.2.2	additional requirement	See Commission rule §9.140(h), System Protection Requirements.
8.4.3	not adopted	See Commission rule §9.27, Application for an Exception to a Safety Rule.
8.5.5	not adopted	See Commission rule §9.141(i), Uniform Safety Requirements.

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9.4.6.2	additional requirement	See Commission rule §9.211, Markings.
9.4.8	with changes	<u>Any unit registered with the Commission</u> [Each cargo tank vehicle or trailer] shall utilize a wheel stop, in addition to the parking or hand brake, whenever the <u>unit</u> [cargo tank vehicle] is loading, unloading or parked, <u>to prevent the unit from unintended movement.</u>
9.6.2.2	with changes	Valves and fittings shall be protected by a method [approved by the authority having jurisdiction] to minimize the possibility of damage.
11.2	additional requirement	See Commission rules §§9.8, Requirements and Application for a New Certificate and <u>9.51, General Requirements for LP-Gas Training and Continuing Education.</u>
11.3.4(A)	not adopted	See Commission rule §9.129, Manufacturer's Nameplate and Markings on ASME Containers.
12.3.4.2	with changes	The label marking shall consist of a border and the word PROPANE in letters not less than 1 in. (25 mm) in height, centered in the diamond, of silver or white reflective luminous material on a black <u>or Pantone 2945 C Royal Blue or equivalent</u> background.
12.5.4(5)	additional requirement	<u>Each specific mounting bracket shall be marked in a visible location, to indicate the manufacturer of the bracket.</u>
12.5.13(2)	additional requirement	See Commission rule §9.211(b), Markings.
Chapter 14	not adopted	Commission authority does not extend to marine shipping and receiving activities.

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15.1	with changes	<p>Scope. This chapter includes requirements related to the operations and maintenance of bulk plant, industrial plant, [refrigerated, marine] and pipeline LP-Gas systems. The provisions of this chapter apply to all new and existing installations.</p> <p><u>Bulk plants and industrial plants with an aggregate water capacity of 10,000 gallons or more and all pipeline LP-Gas systems shall comply with this chapter. Existing installations shall comply within one year of the effective date of the amendments to §9.403, Sections in NFPA 58 Not Adopted by Reference, and Adopted with Changes or Additional Requirements.</u></p>