



API Standard 620

Design and Construction of Large, Welded, Low-pressure Storage Tanks

First Edition, 1963; October 1971; 11th Edition, 2011 | 100 Pages | 160000 | Product No. 620-11

The API Committee on Design has prepared this standard to cover large, low-pressure storage tanks of the type described in 1.1 that contain petroleum hydrocarbon gases or vapors and liquid products, as well as other liquid products commonly handled and stored by the major branches of the industry.

The Manufacturer of a low-pressure storage tank that will bear this API 620 certificate shall ensure that the tank is constructed in accordance with the requirements of this standard.

Coverage

This standard covers the design and construction of large, welded, low-pressure storage tanks whose ground storage tanks (including floating-roof tanks) that have a single vertical axis of rotation. This standard does not cover design procedures for tanks that have walls slanted at more than the walls covered by government or other authority for the rotation of a floating-roof tank or a single vertical axis of rotation.

The tanks covered in this standard are designed for water temperatures not greater than 100 °F and with pressures in their gaseous vapor spaces not more than 10 psig (0.7 gauge).

This tank code in this standard provides for installation in areas where the lowest ambient 2-day mean atmospheric temperature is -50 °F. Tanks designed otherwise must be marked as follows: (a) "API 620 Low-temperature storage tanks" or "API 620 Low-temperature storage tanks" without limit on low temperature; (b) "API 620 Low-temperature storage tanks for refrigerated conditions at temperatures from -50 °F to 100 °F"; (c) "API 620 Low-temperature storage tanks for liquefied gases at temperatures not lower than -200 °F".

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