



# API Standard 620

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

First Edition, 1963; Second Edition, 1974; Third Edition, 1982; Fourth Edition, 1995; Fifth Edition, 2008

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 nameplate 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 stiffer or more so than the walls covered by government or other authority for the rotation of a floating-roof around a single vertical axis of rotation.

The tanks covered in this standard are designed for static temperatures not greater than 200 °F and with pressures in their gaseous vapor spaces not more than 10 psig (0.7 gauge).

This standard does not apply to storage tanks for installation in areas where the lowest ambient 2-day winter minimum temperature is -50 °F. Areas in which minimum ambient low-pressure storage tanks or enclosed structures should be made of all-steel, without limit on low-temperature limits for these low-pressure storage tanks for refrigerated conditions at temperatures from -50 °F to 100 °F. Areas in which low-pressure storage tanks for liquid gases at temperatures not lower than -200 °F.

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