

36.27 Water at 400psi and 700°F is in what thermodynamic state?

- A. Liquid
- B. Saturated Mixture
- C. Saturated Vapor
- D. Superheated Vapor

Use the **Properties of Saturated Water and Steam** table and **Properties of Superheated Steam** table to check where enthalpy values are given for the stated pressure and temperature.

Using the saturated water table by pressure and finding 400psi , the corresponding temperature is lower than 700°F .

Therefore, at the stated temperature and pressure, water will be a superheated vapor.

Answer D