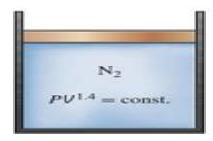
1. A piston—cylinder device with a set of stops initially contains 0.6 kg of steam at 1.0 MPa and 400°C. The location of the stops corresponds to 40 percent of the initial volume. Now the steam is cooled. Determine the compression work if the final state is (a) 1.0 MPa and 250°C and (b) 500 kPa (c) Also determine the temperature at the final state in part b.



A frictionless piston-cylinder device contains 5 kg of nitrogen at 100 kPa and 250 K.
Nitrogen is now compressed slowly according to the relation PV1.4 = constant until it reaches a final temperature of 450 K. Calculate the work input during this process.



3. 1 kg of water that is initially at 90°C with a quality of 10 percent occupies a spring-loaded piston—cylinder device, such as that in the figure below. This device is now heated until the pressure rises to 800 kPa and the temperature is 250°C. Determine the total work produced during this process, in kJ.

# **Solved Thermodynamic Problemscallenchapter15**

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