

PROBLEM 2.25^{*}

KNOWN: A known amount of gas undergoes a constant-pressure process in a piston-cylinder assembly beginning at a specified specific volume. The work is known.

Find: Determine the final volume.

SCHEMATIC & GIVEN DATA:



①

ASSUMPTIONS: (1) The gas is a closed system.
(2) Pressure is constant during the process.

ANALYSIS: Using Eq. 2.17

$$\begin{aligned} W &= \int_{V_1}^{V_2} P dV = P(V_2 - V_1) \\ &= P(V_2 - m v_1) \end{aligned}$$

Solving for V_2 and inserting values

$$\begin{aligned} V_2 &= \frac{W}{P} + m v_1 \\ &= \frac{(-15 \text{ kJ})}{(5 \text{ bar})} \left| \frac{1 \text{ bar}}{10^5 \text{ N/m}^2} \right| \left| \frac{10^3 \text{ N-m}}{1 \text{ kJ}} \right| + (0.25 \text{ kg})(0.2 \text{ m}^3/\text{kg}) \\ &= 0.02 \text{ m}^3 \quad V_2 \end{aligned}$$

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DP Hallahan



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