

Solution

$$r = \frac{V_1}{V_2} = \left(\frac{T_1}{T_2}\right)^{\frac{1}{\gamma-1}} = \left(\frac{646}{323}\right)^{\frac{1}{0.4}} = 5.66 \quad \text{Ans}$$

$$\begin{aligned}\eta_{\text{Otto}} &= 1 - \frac{1}{r^{\gamma-1}} = 1 - \frac{T_1}{T_2} \\ &= 1 - \frac{323}{646} = 0.5 = 50\%\end{aligned} \quad \text{Ans}$$

2.3 In an Otto cycle air at 17 °C and 1 bar is compressed adiabatically until the pressure is 15 bar. Heat is added at constant volume until the pressure rises to 40 bar. Calculate the air-standard efficiency, the compression ratio and the mean effective pressure for the cycle. Assume $C_v = 0.717 \text{ kJ/kg K}$ and $R = 8.314 \text{ kJ/kmol K}$.

Solution

Consider the process 1 - 2

$$p_1 V_1^\gamma = p_2 V_2^\gamma$$

$$\begin{aligned}\frac{V_1}{V_2} &= r = \left(\frac{p_2}{p_1}\right)^{\frac{1}{\gamma}} \\ &= \left(\frac{15}{1}\right)^{\frac{1}{0.4}} = 6.91\end{aligned}$$

$$\begin{aligned}\eta &= 1 - \left(\frac{1}{r}\right)^{\gamma-1} \\ &= 1 - \left(\frac{1}{6.91}\right)^{0.4} = 0.539 = 53.9\%\end{aligned}$$

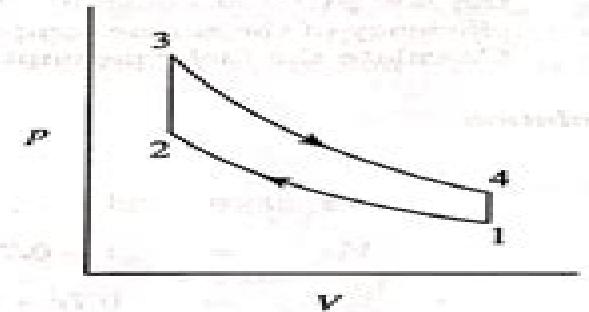
$$T_2 = \frac{p_2 V_2}{p_1 V_1} T_1 = \frac{15}{1} \times \frac{1}{6.91} \times 290 = 629.5 \text{ K}$$

Consider the process 2 - 3

$$T_3 = \frac{p_3 T_2}{p_2} = \frac{40}{15} \times 629.5 = 1678.7$$

$$\begin{aligned}\text{Heat supplied} &= C_v(T_3 - T_2) \\ &= 0.717 \times (1678.7 - 629.5) = 752.3 \text{ kJ/kg}\end{aligned}$$

$$\text{Work done} = \eta \times q_s = 0.539 \times 752.3 = 405.5 \text{ kJ/kg}$$



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