

Chapter Three ISENTROPIC FLOW OF A PERFECT GAS

Problem 1. - Air flows at Mach 0.25 through a circular duct with a diameter of 60 cm. The stagnation pressure of the flow is 500 kPa; the stagnation temperature is 175°C. Calculate the mass flow rate through the channel, assuming $\gamma = 1.4$ and that the air behaves as a perfect gas with constant specific heats.

$$p = \left(\frac{p}{p_0} \right) 500 \text{ kPa} = 0.9575(500) = 478.7500 \text{ kPa}$$

$$T = \left(\frac{T}{T_0} \right) (175 + 273) = 0.9877(448) = 442.4896 \text{ K}$$

$$\rho = \frac{p}{RT} = \frac{(478.75 \text{ kN/m}^2)}{(0.287 \text{ kN} \cdot \text{m/kg} \cdot \text{K})(442.4896 \text{ K})} = 3.7698 \text{ kg/m}^3$$

$$A = \frac{\pi}{4} (0.6)^2 = 0.2827 \text{ m}^2$$

$$V = M \sqrt{\gamma RT} = 0.25 \sqrt{1.4(287 \text{ N} \cdot \text{m/kg} \cdot \text{K})(442.4896 \text{ K})} = 105.4136 \text{ m/s}$$

$$\dot{m} = \rho AV = 112.3603 \text{ kg/s}$$

stagnation pressure of the flow is 1 MPa, and stagnation temperature is 1000 K. Calculate the mass flow rate through the channel, with $\gamma = 5/3$.

$$p = \left(\frac{p}{p_0} \right) 1 \text{ MPa} = 0.8186(1000 \text{ kPa}) = 818.6 \text{ kPa}$$

$$T = \left(\frac{T}{T_0} \right) (1000 \text{ K}) = 0.9231(1000) = 923.1 \text{ K}$$

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