

## Chapter Three ENTROPIC FLOW OF A PERFECT GAS

**Problem 11.** An engine is placed inside a cylinder that has a diameter of 100 cm. The negative pressure of the flow is 100 kPa, the negative temperature is 2000 K, and the flow rate through the channel, entering a 1 m<sup>3</sup> cell, has the air velocity and percentage efficiency specified below.

$$a) \quad \frac{dV}{dt} = 100 \text{ cm}^3/\text{s} = 0.0001 \text{ m}^3/\text{s} \quad \text{and} \quad \eta = 0.0001$$

$$b) \quad \frac{dV}{dt} = 100 \text{ cm}^3/\text{s} = 0.0001 \text{ m}^3/\text{s} \quad \text{and} \quad \eta = 0.000001$$

$$c) \quad \frac{dV}{dt} = 100 \text{ cm}^3/\text{s} = 0.0001 \text{ m}^3/\text{s} \quad \text{and} \quad \eta = 0.0001 \quad \text{and} \quad \text{flow rate} = 1000 \text{ cm}^3/\text{s}$$

$$d) \quad \frac{dV}{dt} = 100 \text{ cm}^3/\text{s} = 0.0001 \text{ m}^3/\text{s}$$

$$e) \quad \frac{dV}{dt} = 100 \text{ cm}^3/\text{s} = 0.0001 \text{ m}^3/\text{s} \quad \text{and} \quad \eta = 0.0001 \quad \text{and} \quad \text{flow rate} = 1000 \text{ cm}^3/\text{s}$$

$$f) \quad \frac{dV}{dt} = 100 \text{ cm}^3/\text{s} = 0.0001 \text{ m}^3/\text{s}$$

**negative pressure of the flow is 100 kPa, and negative temperature is 2000 K. Calculate the maximum rate through the channel, using a 1 m<sup>3</sup> cell.**

$$a) \quad \frac{dV}{dt} = 100 \text{ cm}^3/\text{s} = 0.0001 \text{ m}^3/\text{s} \quad \text{and} \quad \eta = 0.0001$$

$$b) \quad \frac{dV}{dt} = 100 \text{ cm}^3/\text{s} = 0.0001 \text{ m}^3/\text{s} \quad \text{and} \quad \eta = 0.000001$$

# Gas Dynamics John Keith Manual

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