

A/3 példa

$$\rho_{\text{levegő}} = 2.81 \frac{\text{kg}}{\text{m}^3}$$

$$\underline{\underline{\Delta p_{mp} = 669.3 \text{ Pa}}}$$

A/4 példa

$$\frac{\partial q_V}{\partial \Delta h} = 2.28 \frac{\text{m}^2}{\text{s}}$$

$$\frac{\partial q_V}{\partial d} = 2.07 \frac{\text{m}^2}{\text{s}}$$

$$\underline{\underline{\delta q_V = 3.08 \cdot 10^{-4} \frac{\text{m}^3}{\text{s}}}}$$

$$\underline{\underline{\frac{\delta q_V}{q_V} = 0.27\%}}$$

B/3 példa

$$\rho_{\text{levegő}} = 1.23 \frac{\text{kg}}{\text{m}^3}$$

$$v_1 = 18.3 \frac{\text{m}}{\text{s}}$$

$$v_2 = 20.7 \frac{\text{m}}{\text{s}}$$

$$v_3 = 16.5 \frac{\text{m}}{\text{s}}$$

$$v_4 = 19.5 \frac{\text{m}}{\text{s}}$$

$$v_{\text{átl}} = 18.8 \frac{\text{m}}{\text{s}}$$

$$\underline{\underline{q_V = 0.6 \frac{\text{m}^3}{\text{s}}}}$$

B/4 példa

$$v = 11.2 \frac{m}{s}$$

$$\frac{\partial v}{\partial p_{din}} = 0.0801 \frac{m}{s \cdot Pa}$$

$$\frac{\partial v}{\partial T} = 0.0179 \frac{m}{s \cdot K}$$

$$\delta p_{din} \cdot \frac{\partial v}{\partial p_{din}} = 0.16 \frac{m}{s}$$

$$\delta T \cdot \frac{\partial v}{\partial T} = 0.0179 \frac{m}{s}$$

} A nyomásmérés adja a hiba nagyobb részét.

$$\underline{\underline{\delta v = 0.161 \frac{m}{s}}}$$

$$\underline{\underline{\frac{\delta v}{v} = 1.44\%}}$$