

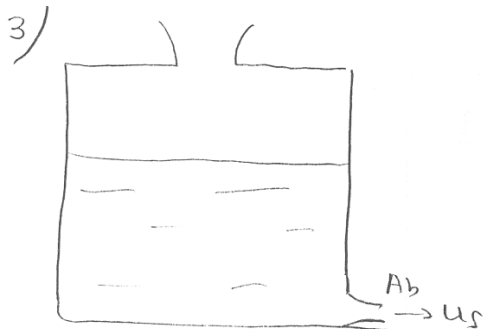
$$\frac{d}{dt} \int_{V_C} \rho \left(e + \frac{u^2}{2} \right) dV + \int_{\Sigma_C} \rho \left(e + \frac{u^2}{2} \right) (\vec{u} - \vec{u}_c) \cdot \vec{n} d\sigma = - \int_{\Sigma_C} P \vec{u} \cdot \vec{n} d\sigma$$

$$\frac{d}{dt} \left(\frac{P_2 V_2}{\gamma - 1} \right) - G_t h_1 = - P_2 \frac{dV_2}{dt}$$

EN DEPÓSITO ① $\frac{V}{\gamma - 1} \frac{dP_1}{dt} + G_t h_1 = 0$

$$\frac{d}{dt} \left(\frac{P_2 V_2}{\gamma - 1} \right) + \frac{V}{\gamma - 1} \frac{dP_1}{dt} = - P_2 \frac{dV_2}{dt}$$

EC. 1



$$\rho \frac{dV_2}{dt} = G_e = \rho u_s A_b$$

$$\text{CON } \frac{1}{2} \rho u_s^2 = P_2 + \rho g \left(\frac{V_0 - V_2}{A} \right) - P_a$$

$$\frac{dV_2}{dt} = \left(2 \frac{(P_2 - P_a)}{\rho} + 2g \left(\frac{V_0 - V_2}{A} \right) \right)^{1/2} A_b$$

EC. 2

CONDICIONES INICIALES

$$t = 0$$

$$P_{20} = P_a - \rho g H_0$$

$$V_{20} = V_0 - A H_0$$