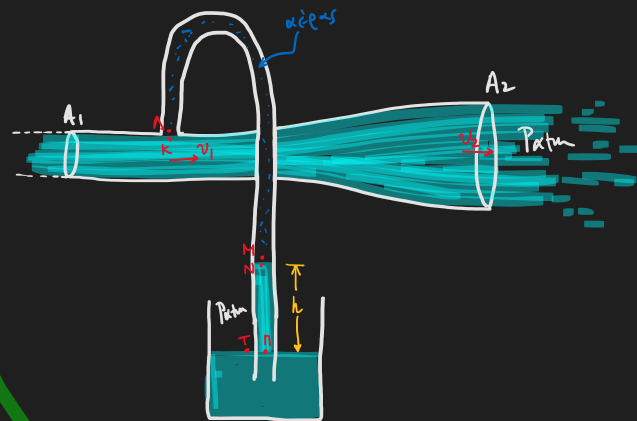


ΑΝΨΟΔΗ ΣΤΑΘΜΗ ΣΕ ΑΝΕΣΤΡΑΜΕΝΟ U-ΣΟΛΗΝΑ



$P_K = P_A$ (Για υγρά και ραίον από τον υγρό/αέριο
χωρίσματα προς/από τον κατακόρυφο)

$$P_A = P_M \quad (\text{1600000} \rightarrow \alpha \in \rho \times) -$$

$(\alpha \in \rho \times)$

$\uparrow$
 $\alpha \in \text{dim } 20$

$$P_M = P_N \text{ (n bedarf es einer Bedienerstation)}$$

$$P_T = P_n \text{ (ίδιο σφιγμένο κελφάλινα, ίδιο υψόν)}$$

$$P_T = P_{\text{αταμ}} \quad (\text{6€ επιπλέον το συν ατζόφορεα})$$

$$P_K = P_N \quad (1)$$

$$P_n = pgh + P_N \quad (1)$$

$$P_{\text{bottom}} = pgh + P_k \quad (2)$$

$$\eta_1 = \eta_2 \rightarrow A_1 v_1 = A_2 v_2 \rightarrow v_2 = \overline{A_1 v_1 / A_2} \quad (3)$$

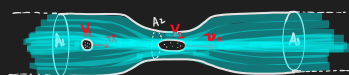
Bem: K-Eqns: $P_K + \frac{1}{2} \rho v_1^2 + \rho g^0 = P_{K+1} + \frac{1}{2} \rho v_2^2 + \rho g^0 \Rightarrow$

$$\stackrel{(2)}{\Rightarrow} \cancel{P_k} + \cancel{\frac{1}{2} \rho v_1^2} = \cancel{\rho g h} + \cancel{P_k} + \frac{1}{2} \rho v_2^2 \Rightarrow$$

$$\Rightarrow h = \frac{\frac{1}{2}v_1^2 - \frac{1}{2}v_2^2}{g} = \frac{v_1^2 - v_2^2}{2g} \Rightarrow (3)$$

$$\Rightarrow h = \frac{v_1^2 - A_1^2 v_1^2 / A_2^2}{2g} \Rightarrow h = \frac{v_1^2}{2g} (1 - A_1^2 / A_2^2)$$

Φυλακισα μεθα σε ελθωντα λυμινα



ΚΑΘΩΣ Η ΦΥΛΑΚΙΔΑ ΠΕΡΝΑΕΙ ΜΕΣΑ
ΑΝΟ ΤΗΝ ΣΤΕΝΩΣΗ ΑΥΞΑΝΕΤΑΙ Ο ΟΡΟΣ ΤΗΣ

1.° Bilan: $\rho_1 = \rho_2 \Rightarrow A_1 v_1 = A_2 v_2 \xrightarrow{A_2 < A_1} \boxed{v_2 > v_1} \quad (1)$

Bernoulli: $p_1 + \frac{1}{2}\rho v_1^2 + \cancel{\rho g h} = p_2 + \frac{1}{2}\rho v_2^2 + \cancel{\rho g h} \xRightarrow{(1)} \boxed{p_1 > p_2} \quad (2)$

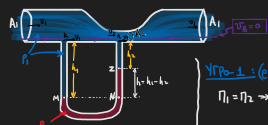
! Je Bilka: $P_{\text{up}} = P_{\text{avg}}$ Se KADE LITHEIO, qazi μ_{Lithio} u ϕ_{Lithio}
da "Kade" i da "Lithio".

$$(2) \rightarrow P_{\phi 6.1} > P_{\phi 6.2} \quad (3)$$

4° Bsp.: Nitrogen Boyle: $T = 600 \text{ K} \Rightarrow pV = 600 \text{ K} \cdot p_0 \Rightarrow p_{\text{max},1} \cdot V_1 = p_{\text{max},2} \cdot V_2 \xRightarrow{(2)} \boxed{V_1 < V_2}$ Druck in Zylinder steigt an

Epitaphio Tempituros BERNOULLI

ΑΝΕΙΣΤΡΑΜΕΝΟ ΡΟΟΜΕΤΡΟ Venturi
ΜΕ ΔΥΟ ΥΔΡΑ ΡΟΥ ΔΕΝ ΑΝΑΜΙΓΝΥΟΝΤΑΙ



$$\boxed{\text{Упр-е 1: (Рівн. упер)}} \quad \frac{\rho_1 \cdot v_1}{\rho_2 \cdot v_2} = \frac{A_2}{A_1} \Rightarrow v_2 = \frac{A_1 \cdot v_1}{A_2} \quad (1)$$

UPO-1: G -Bew $k \rightarrow \Lambda$ (optimal entziffern)

$$P_L + \frac{1}{2} \rho_L v_L^2 + \cancel{\rho_L g \cdot 0} = P_A + \frac{1}{2} \rho_L v_A^2 + \cancel{\rho_L g \cdot 0} \Rightarrow$$

$$\Rightarrow P_k - P_A = \frac{1}{2} \rho_l (v_2^2 - v_1^2) \stackrel{(1)}{\Rightarrow}$$

$$\Rightarrow P_k - P_A = \frac{1}{2} \rho_1 \left(\frac{A_1^2 v_1^2}{A_2^2} - v_1^2 \right) \Rightarrow$$

$$P_2 - P_1 = \frac{1}{2} \rho \cdot v^2 \left(\frac{A_1^2}{A_2^2} - 1 \right) \quad (2)$$

1. *Chlorophyll a* (Chl *a*)

$$(2)_{/3} : (p_2 - p_1)g(h_1 - h_2) = \frac{1}{2} \rho_1 v_1^2 \left(A_1^2 / A_2^2 - 1 \right) \Rightarrow v_1 = \sqrt{\frac{2(p_2 - p_1)g(h_1 - h_2)}{\rho_1 (A_1^2 / A_2^2 - 1)}} \quad (h_1 - h_2 = h)$$

$$v_1 = \sqrt{\frac{2(P_2 - P_1)gh}{\rho(A_1^7/A_2^7 - 1)}} \xrightarrow[\text{2: Hg, 1: alcohol}]{\text{w } P_2 \gg P_1} \frac{P_2 - P_1 \approx P_2}{\rho(\frac{A_1^7}{A_2^7} - 1)} \quad v_1 = \sqrt{\frac{2P_2gh}{\rho(\frac{A_1^7}{A_2^7} - 1)}}$$

→ 0 21 102 211
At 15-2-2021