

flow of Helium : $\dot{m} = 0.5 \text{ kg/s}$

Horizontal tube

$$T_1 = 330^\circ\text{C}$$

$$w_1 = 150 \text{ m/s}$$

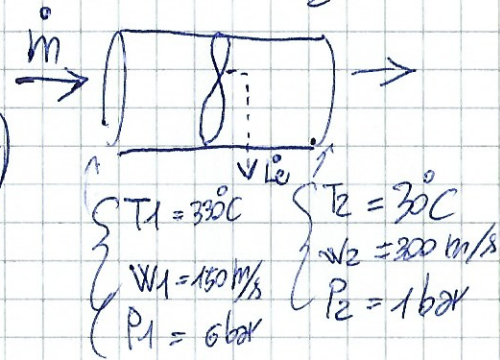
(medium vel)

$$P_1 = 6 \text{ bar}$$

- stationary state assumption
- thermally isolated system

1 stands for the
(incoming section of the tube)
2 stands for
the exit

$$(\dot{m} = \text{instantaneous flow} = \frac{dm(t)}{dt})$$



$$L_e = ?$$

- ? MECHANICAL POWER GENERATED?
- ? ENTROPY GENERATION FOR IRREVERSIBILITY?
(in the time unit)