

$$EK = K_{VP} + K_{ondo} + 3K_{ondo} = 9,72$$

$$\rightarrow H = 18,02 \, m \rightarrow P0: Q = 30^{m}/h = Q_{2}$$

$$H = 18p_{0}2 \, m = H_{2}$$

$$N_{A} \qquad N = ? (N_{2})$$

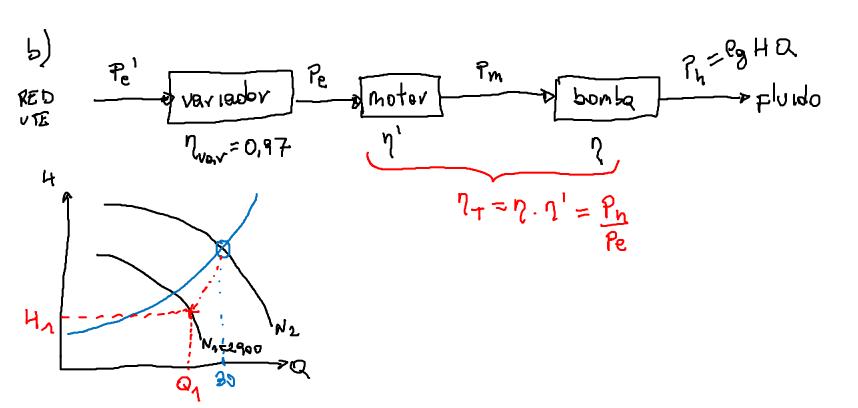
$$C.55a \quad 2900 \, rpm \cdot H_{1} = 20 + 0.085Q_{1} - 0.0094Q_{1}^{2}$$

$$LS; Q_{1} = \frac{N_{1}}{N_{2}} \rightarrow Q_{A} = \frac{Q_{2}}{N_{2}} \frac{N_{1}}{N_{2}}$$

$$H_{A} = \left(\frac{N_{A}}{N_{2}}\right) \rightarrow H_{A} = H_{2}\left(\frac{N_{1}}{N_{2}}\right)^{2}$$

Sust LS en c.56 a 2900 rpm

$$H_2 \left(\frac{N_1}{N_2} \right)^2 = 20 + 0.085 \, \Omega_2 \, N_1 = 0.0094 \, \Omega_2 \, N_2$$
 $N_1 = 3.157 \, \text{rpm}$
 $N = C \, F - P \, \frac{N_1}{N_2} = \frac{50 \, H_2}{F_2}$
 $F_2 = 54.4 \, H_2$



$$Q_1 = Q_2 \frac{V_1}{N_2} = 27,6 \frac{m^3}{h}$$
 per pto homologys se comple iqual exiciencia del. gaf entrando con $Q_1, T_1 = 75\%$ $-> P_e = \frac{lq \cdot 18,02 \cdot (\frac{30}{3600})}{0.75} = 19.58W$

NPSHr ?

dol Pto homologo Q=27,6 m3/4 = 1995 NPSHr,=1,94m

L5:
$$\frac{NPSH_{r,2}}{NPSH_{r,2}} = \left(\frac{N_1}{N_2}\right)^2 \longrightarrow NPSH_{r,2} = 1,66m$$

NPSHI < NPSH => no carta

- NPSHa L