1) a. Stehenarer Fliess prozess:
$$0 = m[hein-haus] + Gaus steen Gaus = m[haus-hein] - GR

Gaus = m[haus-hein] - GR

hein(70°C) = (1-x)hc + xhq =

= (1-0.005) 29298 ks + 0.005.2333.8 ks = mg

= 292.68 ks = 292.68 ks = mg

haus(100°) = (1-x)hc(100°C) + xhq (100°C) =

= 428.23 ks = mg

Qaus = 0.3 [428.23 - 20268] ks = 406KW - 100 ks W

The = 4 Theas-Their =

(- 0) = m / Saus = 6 7 in Gi$$

(, 0= m [Sem - Saus] + ai + Serz

d.

3) a.
$$P_{K} = \frac{F_{K}}{A}$$
 $A = (\frac{\alpha_{1}m}{2})^{2} \cdot iT = 7.85.10^{-3}m^{2}$
 $P_{K} = 0.4 \text{ bear}$ $F_{K} = 32 \text{ trg} \cdot 9.81 \text{ mg}$

$$M_{S, L} = \frac{P_{S, L} \cdot V_{A}}{P_{C} \cdot V_{A}} = \frac{1.4 \cdot 10^{5} P_{C} \cdot 3.14 \cdot 10^{3} ers^{3}}{0.16629 \cdot 63 \cdot 97315 M} = \frac{3419}{0.06629 \cdot 63}$$

$$P_{C} = \frac{8.314 \cdot 10^{5}}{0.06698} = \frac{1.4 \cdot 10^{5} P_{C} \cdot 3.14 \cdot 10^{3} ers^{3}}{0.06698 \cdot 10^{5}} = \frac{3419}{0.06698}$$

4) a. P. 4 P.3 P.3 P.3 P.3 P.3

e zustand z : nor gas

zoshind 4: Keln 947

Pr=P2

P3=P4 = 8 bar