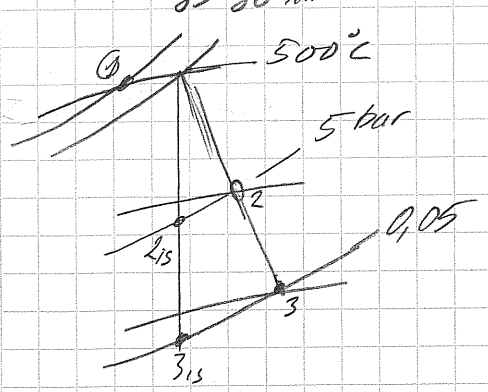
13




$$h_2 = h_1 - \eta_{is} \cdot (h_1 - h_{2is}) = 3393 - 0{,}74 \cdot (3393 - 2705) = 2883{,}9 \text{ kJ/kg}$$

13.1 $\underline{t_2 = 214\,°C}$

$$h_3 = h_1 - \eta_{is} (h_1 - h_{3is}) = 3393 - 0{,}74 (3393 - 2050) = 2399 \text{ kJ/kg}$$

13.2 $m_d \cdot \Delta h_{1-2} = x \cdot m_d \cdot \Delta h_{1-3}$

$$x = \frac{\Delta h_{(1-2)}}{\Delta h_{(1-3)}} \quad \frac{3393 - 2883{,}9}{3393 - 2399} = \frac{511}{994} = 0{,}514$$

$$Red = \frac{m_d - x \cdot m_d}{m_d} \cdot 100\% = (1-x) \cdot 100\% = \underline{48{,}6\%}$$

13.3 Ved drøvling reduceres trykket med konstant entalpi (utnyttes entropi).
Ved delbelastning anvendes fuldt tryk men reduceret dampmængde.