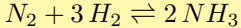$$\dot{n}_{N_2} = 1000 \frac{\text{g-mol}}{\text{hr}}$$

$$\dot{n}_{H_2} = 3000 \frac{\text{g-mol}}{\text{hr}}$$

$$N_2 + 3\,H_2 \rightleftharpoons 2\,NH_3$$

$$\dot{n}_{N_2}, \dot{n}_{H_2}, \dot{n}_{NH_3}$$