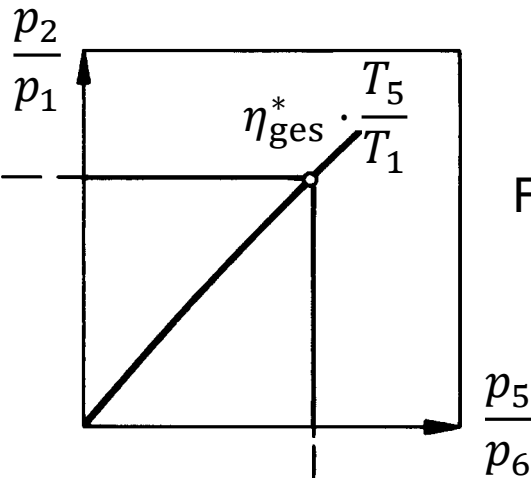
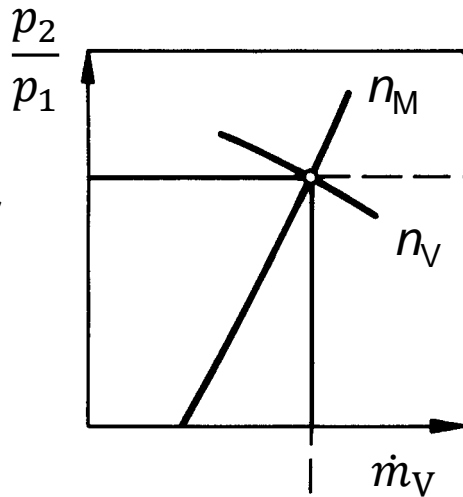


Compressor map

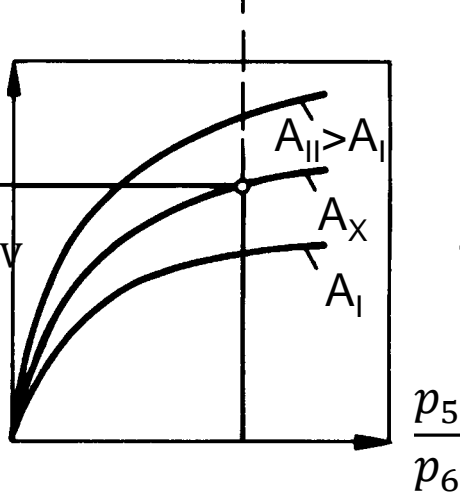


Freewheel condition
(Power balance)

Without turbine bypass
mass flow

$$\dot{m}_T \cdot \frac{\sqrt{T_5}}{p_5}$$

$$\dot{m}_T = \dot{m}_A = \dot{m}_B + \dot{m}_V$$



Turbine characteristic
mass flow curve