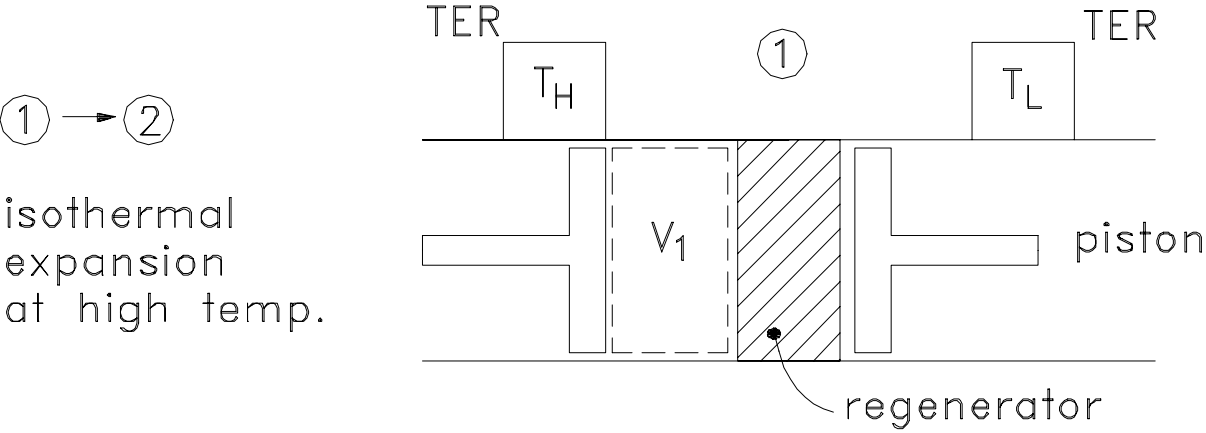
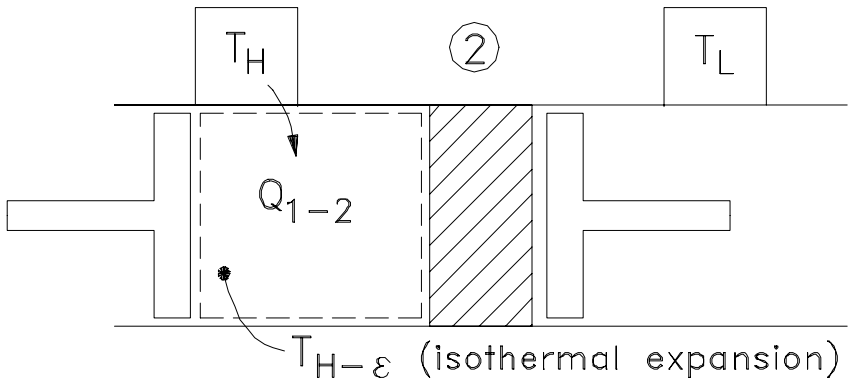


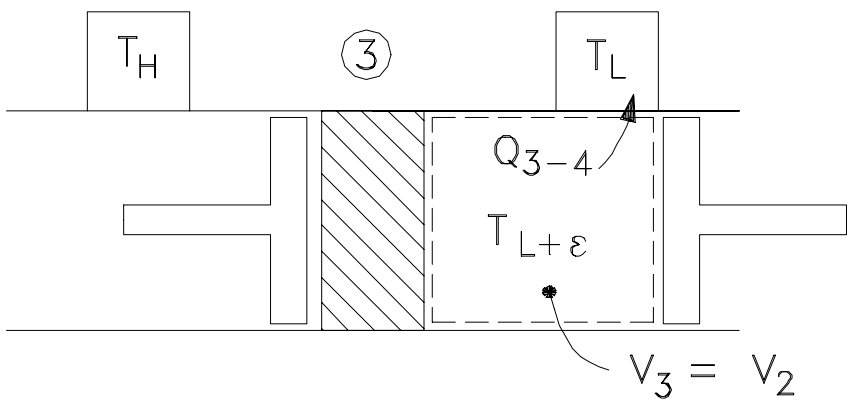
① → ②

isothermal expansion at high temp.



② → ③

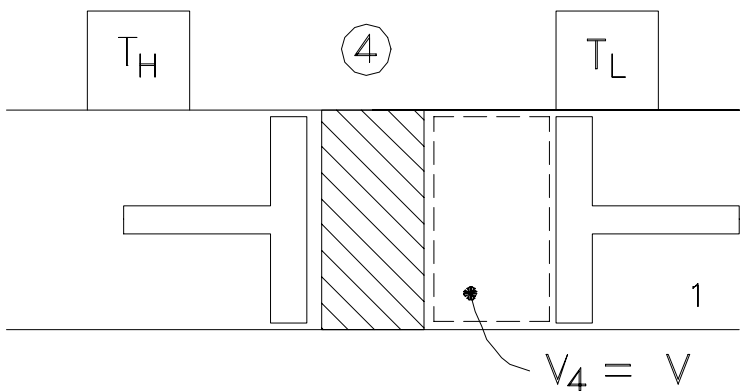
constant volume process



③ → ④

isothermal compression at low temp.

heat the regenerator by pushing the hot gas through it



④ → ①

constant volume process

move both pistions to the left to get back to state 1

during this process the regenerator cools down by giving off energy to the gas