

















No. of stages typically determined by temperature limit (client, API 618). Calculation of (adiabatic) discharge temperature:

$$T_d = T_s \cdot r_p^{\frac{k-1}{k}}$$
 Where  $r_p = p_d / p_s$  = pressure ratio  
k = specific heat ratio

If  $T_d > T_{d, max}$  (client, API 618) then increase number of stages

$$r_{p stage} = x \sqrt{r_p}$$

Where x = number of stages





















