Pump design…

- ## <u>NPSH</u>

  $$NPSH_a = (P_{abs} - P_{vp})/\rho g) + H_{static} - h_{sf}$$

  Where (in SI units)

  - NPSHa = available NPSH (m)

  - P_{abs} = absolute pressure at source
  - P_v = vapor pressure at pumping temperature

  - H_{static} = static head (m)
  - h_{sf} = frictional losses (m)

  - NPSHr = required NPSH

  - NPSHa> NPSHr +0.5m