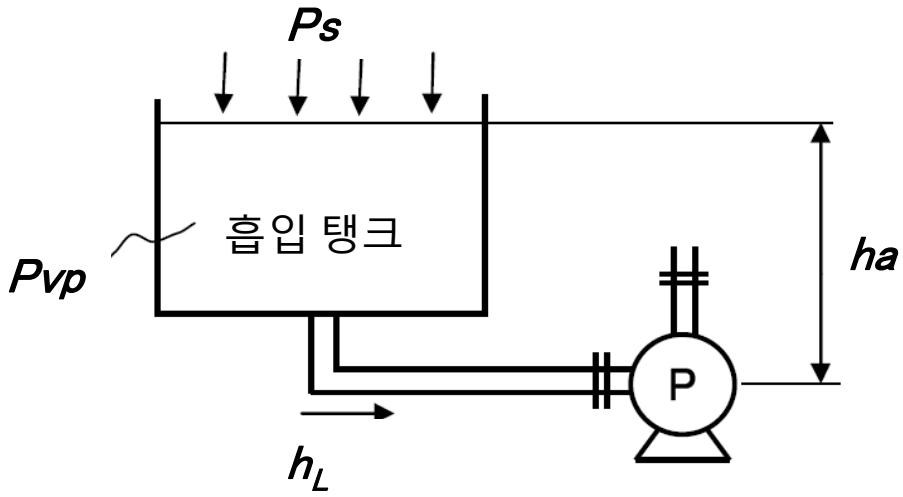
NPSHA(처넣어)

$$NPSHA = \frac{10}{\rho} \cdot Ps - \frac{10}{\rho} \cdot Pvp + ha - h_L \quad (m)$$

1 MPa = 10.1972 kg/cm²

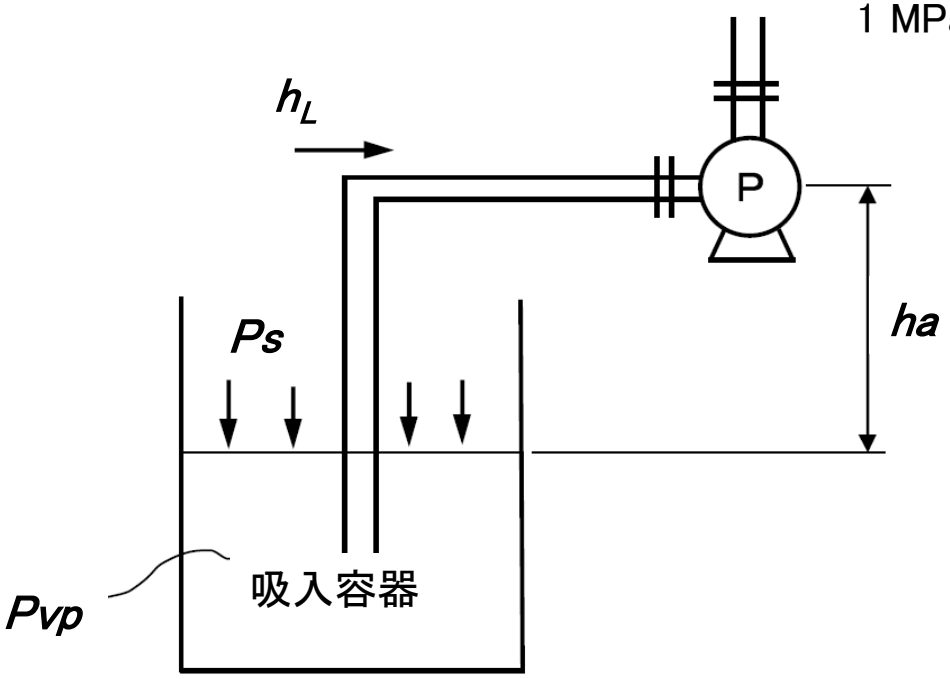


Ps : 액면의 압력 (kg/cm²a.)
Pvp : 액의 포화 증기 압력 (kg/cm²a.)
ha : 액면과 펌프 날개차 중심의 높이 (m)
h_L : 액면과 펌프 날개차 중심의 높이 (m)
ρ : 액의 밀도 (g/cm³)

NPSHA(吸起来)

$$NPSHA = \frac{10}{\rho} \cdot Ps - \frac{10}{\rho} \cdot Pvp - ha - h_L \quad (m)$$

1 MPa = 10.1972 kg/cm²

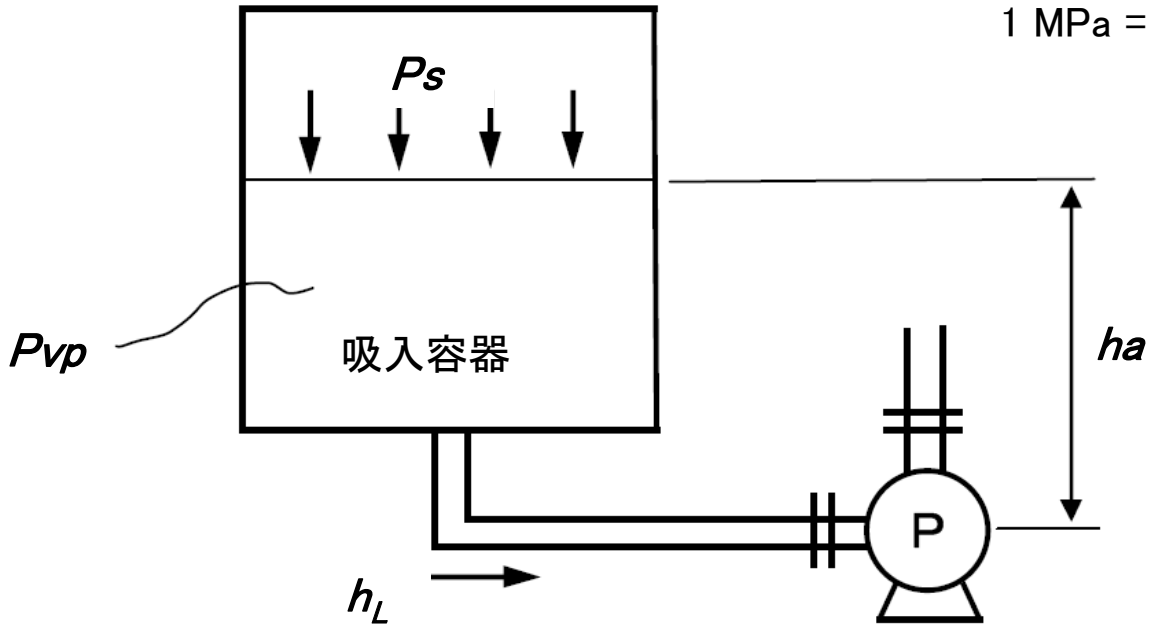


Ps :液面的压力(kg/cm²a.)
Pvp :液的饱和蒸气压力(kg/cm²a.)
ha :液面和以水泵叶轮为中心高度(m)
h_L :到水泵叶轮入口的压力损失(m)
ρ :液的密度(g/cm³)

(密闭容器)

$$NPSHA = \frac{10}{\rho} \cdot Ps - \frac{10}{\rho} \cdot Pvp + ha - h_L = ha - h_L \quad (m)$$

1 MPa = 10.1972 kg/cm²



Ps :液面的压力(kg/cm²a.)
Pvp :液的饱和蒸气压力(kg/cm²a.)
ha :液面和以水泵叶轮为中心高度(m)
h_L :到水泵叶轮入口的压力损失(m)
ρ :液的密度(g/cm³)