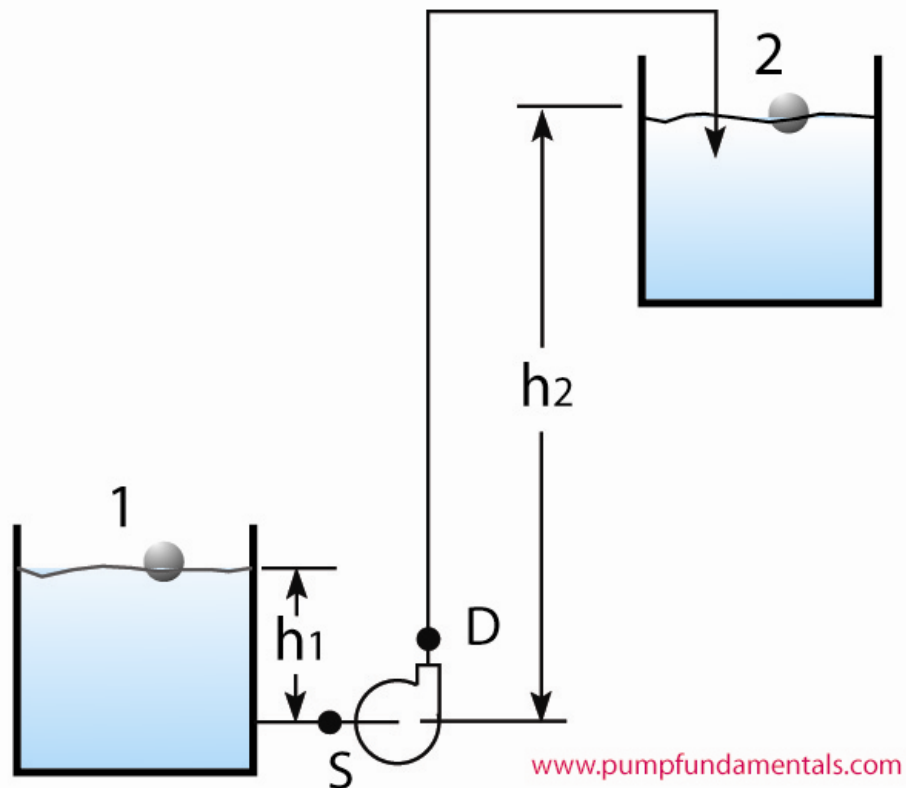


## PUMP SYSTEM

### STATIC AND FRICTION HEAD



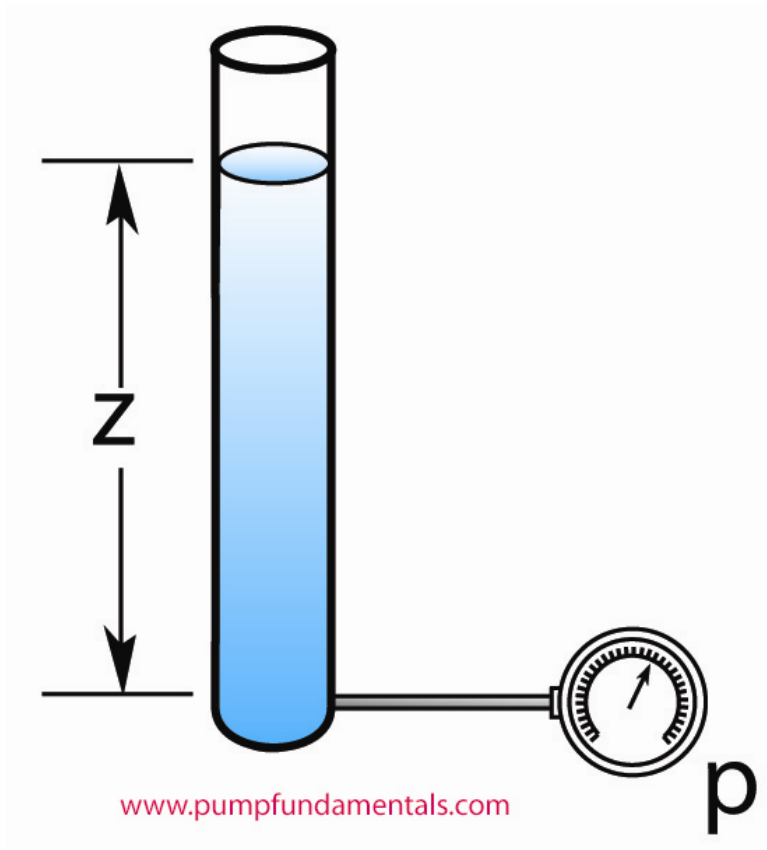
$$H = \frac{p_D - p_s}{\text{dens}} = h_2 - h_1 + FR_{1-2}$$

H: total head of pump

$H_2 - h_1$  : static head in feet

$FR_{1-2}$  : friction head in feet from pipe friction tables

## PRESSURE VS. HEAD



$$p(\text{psi}) = \frac{z(\text{ft})}{2.31}$$

for water