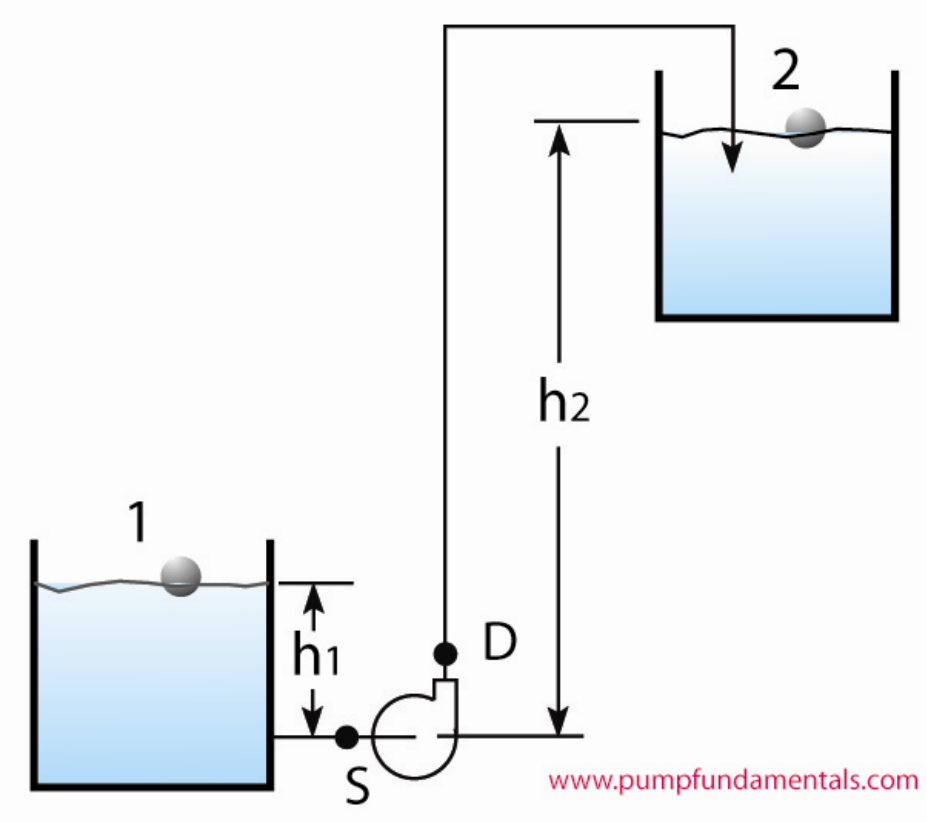
PUMP SYSTEM

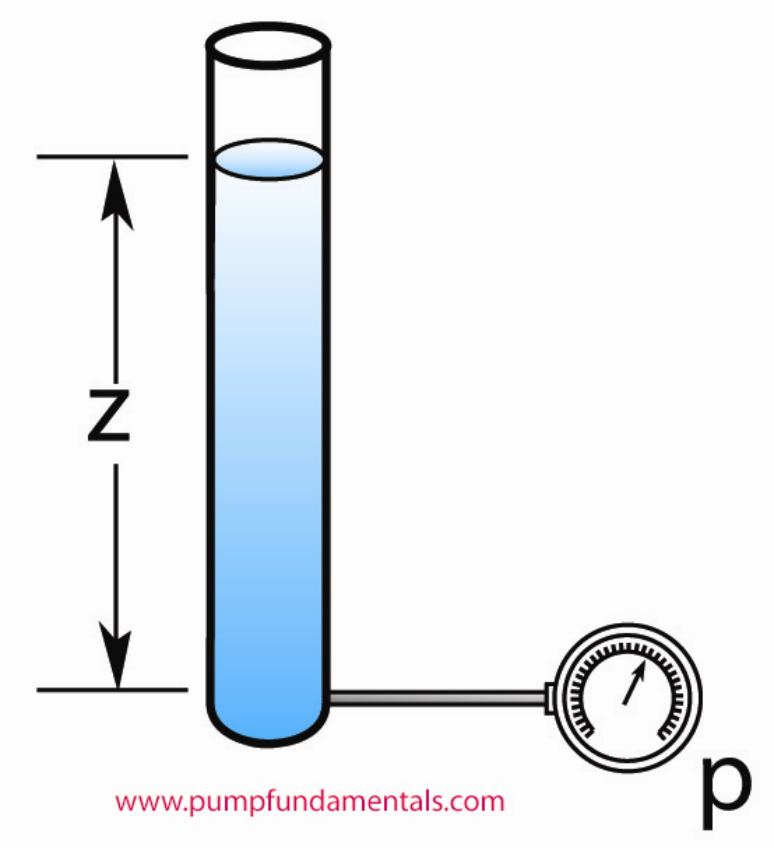
STATIC AND FRICTION HEAD



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

H: total head of pump
$H_2 - h_1$: static head in feet
$FR_{1\text{-}2}$: friction head in feet from pipe friction tables

PRESSURE VS. HEAD



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

for water