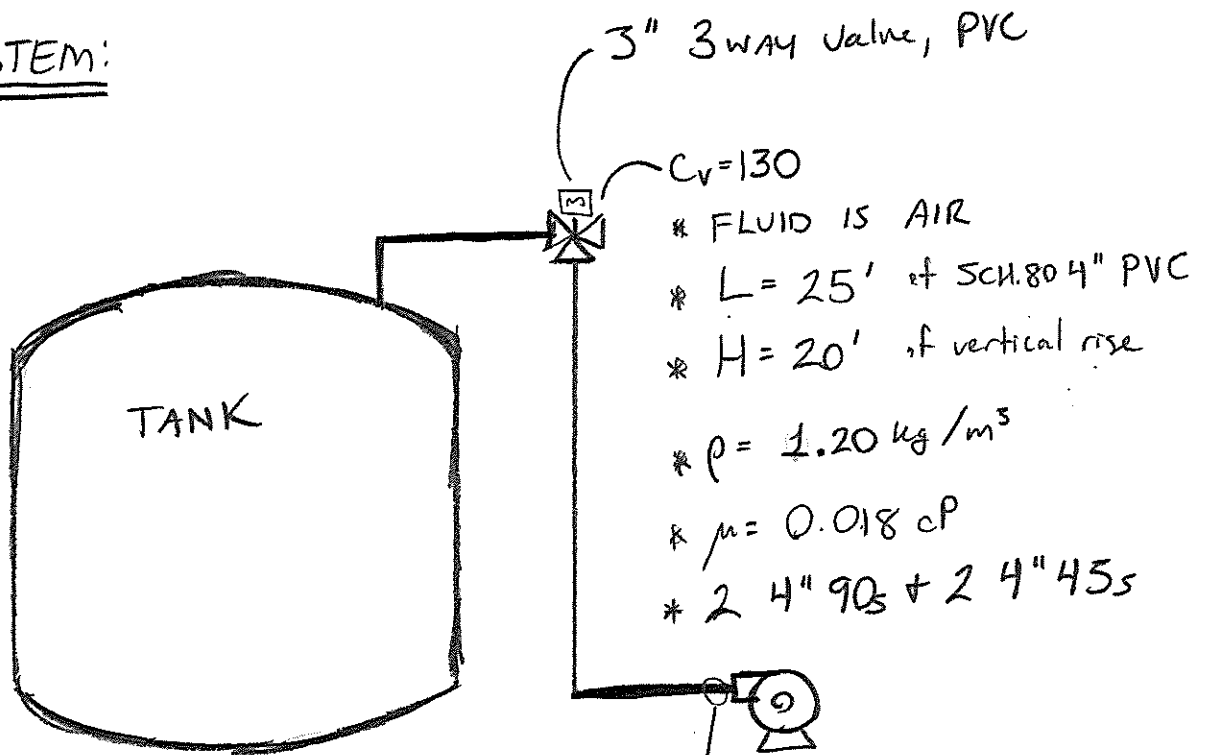


# SYSTEM:



QUESTION:  $\Delta P$  thru SYSTEM @ 366 SCFM? max output: 366 SCFM @ 6" in. H<sub>2</sub>O

FIRST) convert  $C_v \Rightarrow K \rightarrow h_L = K \cdot \frac{V^2}{2g}$  ft/ft @ 130 GPM in 3" PLPING

SO,  $K = 4.25$  for the valve.

$$2.3' = K \frac{5.9^2}{2 \cdot 4.4} \quad \vec{V} = 5.90$$

$K = 4.25$

THE 2 · 90s + 2 · 45s,  $K = 1.6$ ,  $K_{TOT} = 5.85$

UPON PLUGGING INTO PDEOP calculator,  $\Delta P = 9.7" \text{ H}_2\text{O @ 366 SCFM}$