

Preliminary Pump Calculations

Density of Water 1.94 slug/ft³
Gravity 32.2 ft/s²
Amount of vertical head 3 ft

Delta Pressure 187.404 psf

Flow Rate 360 in³/s
 0.20833333 ft³/s

Work Done on Water 39.0425 ft-lbf/s
 0.07098636 hp

Efficiency	Rated Power (hp)
50%	0.14
60%	0.12
70%	0.10
80%	0.09
90%	0.08
100%	0.07

These calcs prove that a 1/3 hp pump should be sufficient

These calcs do not take into account any major/minor head loss associated due to the pipe l

flow