

## Pump Sizing Requirements

1. Flow required (largest-smallest zones, 10 gpm average per acre residential, 40-60 gpm per sports field):

\_\_\_\_\_

2. Total Dynamic Head:

a. Total suction lift height (no more than 10' for centrifugal pump) \_\_\_\_\_\*

b. Total discharge height to highest point on property \_\_\_\_\_\*

c. Discharge pipe size \_\_\_\_\_ and length of main line \_\_\_\_\_  
\_\_\_\_\_. Friction loss over total length of main line (from friction loss chart) \_\_\_\_\_  
times 2.31 equals total feet of head pressure loss \_\_\_\_\_\*

d. 50 psi for residential system equals 115 feet/head\*  
or 85 psi for sportsfield equals 200 feet/head\*

e. If Mascontrol is being used pressure loss for gpm desired \_\_\_\_\_  
times 2.31 for feet of head \_\_\_\_\_\*

Total feet of head (all \*'s) \_\_\_\_\_

3. Electrical power supplied (voltage and phase) \_\_\_\_\_

4. Any hours of operation regarding pump \_\_\_\_\_

Feet of Head X 0.433 = PSI

PSI X 2.31 = Feet of Head