

Pump Configuration Differential Calculator

Lift Station Sensor Differential	
A. Tank Dimensions	
Diameter (IN)	72
Depth (IN)	24
Gal Per In (Depth)	17.63
B. Pump Specs	
Num of Pumps	Duplex
Pump 1 GPM	60
Pump 2 GPM	60
Total GPM	120
Run Time (Minutes)	3
Total Gal in 3 min	360
C. Sensor Differentials	
Min differential (IN)	20.38
Pump 1 Dif (IN)	10.250
Pump 2 Dif (IN)	10.250

A. Tank Dimensions - Determined primarily by the Diameter of the tank, providing the Gallons per Inch for the depth of the tank

B. Pump Specifications- Determined first by the quantity of pumps and then by the Gallons Per Minute (GPM) output of each pump. The minimum run time of the pumps is also important.

C. Sensor Differentials- This is determined by the Tank dimensions, the quantity of pumps, the output of the pumps, and the minimum run time of the pumps. This determines the minimum differential of the sensing points need for the sensors between pump on and pump off and in some cases All Pump Off.