

!!!! ATTENTION !!!!

THIS PAPER IS AN ATTEMPT TO DESCRIBE HOW TO ACCURATELY SET THE FLOW RATE FOR “WATER SAVER” MODE 2

**SET THE WATER FLOW RATE VOLUME TO AVOID PROBLEMS
IF FLOW RATE IS TOO LOW SENSOR WILL SIGNAL FALSE ALARMS
IF FLOW RATE IS TOO HIGH OVERFILLING CAN OCCUR**

SMARTMETER™ CAN ALERT TO WATER LOSS ONLY IF THE TORO VALVE WATER FLOW ADJUSTMENT IS SET RIGHT

You must set the water flow rate properly to take advantage of the water saver feature without false alarms or overfilling during fill cycles. You set this limit by setting the flow rate at the Toro valve included with your purchase. In “Water Saver” MODE 2 you have 60 minutes per day maximum of fill time. 60 minutes multiplied by the flow rate gives the maximum amount of water delivered during each fill time. If the TORO Valve water flow is set too low the sensor can indicate possible leaks. This is because daily water added during fill time does not equal the evaporative loss. Be sure to account for evaporation losses when determining water flow rate. Conversely, if the TORO Valve water flow is too high the water level will not fall below the “set level” even if a small leak is present. Measure the flow rate through your valve at supply pressures. Time how long it takes to fill up a 5 gallon bucket through the valve.

RECOMMENDED SETTING: SET FLOW RATE SO THAT IN 30 MINUTES YOU WILL HAVE FILLED THE POOL EQUIVELENT TO DAILY EVAPORATIVE LOSS. AT THIS SETTING A LOSS OF TWICE THE EVAPORATIVE LOSS FOR 3 DAYS IN A ROW WILL TRIGGER “POSSIBLE LEAK” ERROR.

Water surface area (sq. ft.)	Time to fill 5 gallon for 0.75” day loss	Time to fill 5 gallon For 0.5” day loss	Time to fill 5 gallon For 0.33” day loss
100	6min. 24 seconds	9 min 36 seconds	14 min 35 seconds
200	3min. 12 seconds	4 min 48 seconds	7 min 17 seconds
500	1min 36 seconds	2 min 24 seconds	2 min 55 seconds
800	48 seconds	1 min 12 seconds	1 min. 49 seconds
1000	38.5 seconds	57.8 seconds	1 min 27 seconds
2000	19.3 seconds	29 seconds	44 seconds

Table to set flow rates v.s. pool area using time to fill a 5 gallon bucket.

The SmartMeter works by recording the water level at the end of a fill cycle. The unit “remembers” if water level did not come up to “set level” during each daily fill cycle. If this happens three days in a row, the “possible leak” error is activated and the water valve system shuts off. The red light on the Valve Controller will also flash. NO MORE WATER WILL BE ADDED UNTIL VALVE CONTROLLER IS MANUALLY RESET.