

SENTRY FLOW METER

The SENTRY FLOW METER is a specially designed product that becomes a “must” for every service truck. Plumbers, well service people, water softener repairmen, lawn sprinkler and turf service, as well as all other service professionals depend on the SENTRY FLOW METER for a variety of reasons.

The SENTRY FLOW METER was developed to provide accurate flow rates of pumps from 0-100psi, at flow rates anywhere from 4 – 28gpm. The unique design was engineered after years of trying to diagnose water pressure problems in various applications. By adjusting the handy ball valve, the SENTRY FLOW METER can help indicate the condition of the pressure tank, switch, pump and restrictions in the water line. This will help to determine a problem with the pump system or in the water distribution. The meter is also ideal for detecting scaling in pipes in city water applications by showing low flow rates and severe pressure drops.

Sentry Flow Meter Instructions

1.) Flush a hydrant or hose bib by the pressure tank then connect the Sentry Flow Meter.

PSI
Kick-in Pressure

2.) Open the hydrant or hose bib to maximum flow. Partially close the ball valve to a slow water run until the pump starts. Record the pressure.

GPM
Open Flow

3.) Open the ball valve. Record the flow-rate.

PSI
Kick-out Pressure

4.) Close the ball valve. Record the pressure.

GPM
Service Flow

5.) With the well pump running adjust the ball valve until the pressure gauge on the Sentry Flow Meter reads 30 psi. Allow the water to run at least 1 minute at this pressure. Record the flow-rate. This is the service flow rate which tells you how much water is available for appliances, sprinklers, and treatment equipment.

GPM

6.) With the well pump running adjust the ball valve until the pressure gauge shows 40 psi. Allow water to run at least 1 minute at that pressure. Read the flow meter. The difference in the 30 psi reading and the 40 psi reading determines if the pump is in good condition. The gallons per minute should not vary more than 25%.

Sentry Flow Meter Service

Problem: Flow meter will not reset to 0gpm

Solution:

1. Unthread flow meter from ball valve
2. In a downward motion, sharply strike the bottom of the flow meter on a wooden surface
3. Assemble and flush with clean water

Note: It may take more than one attempt



Problem: Retaining ring comes free

Solution:

1. Insert the flow plug so the red indicator is down
2. Install spring
3. Install retaining ring (A socket of similar size is helpful)
3. Flow test the meter to ensure accuracy

Flow Meter #M 120009, Meter Only #FM 0006, Retaining Ring #FM 0008

NOTE: Freezing temperatures can damage pressure gauge.

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