How To Find Out Your Well Pump's Flow Rate in Gallons Per Minute ("GPM")

By Gerry Bulfin
WQA Certified Water Specialist IV

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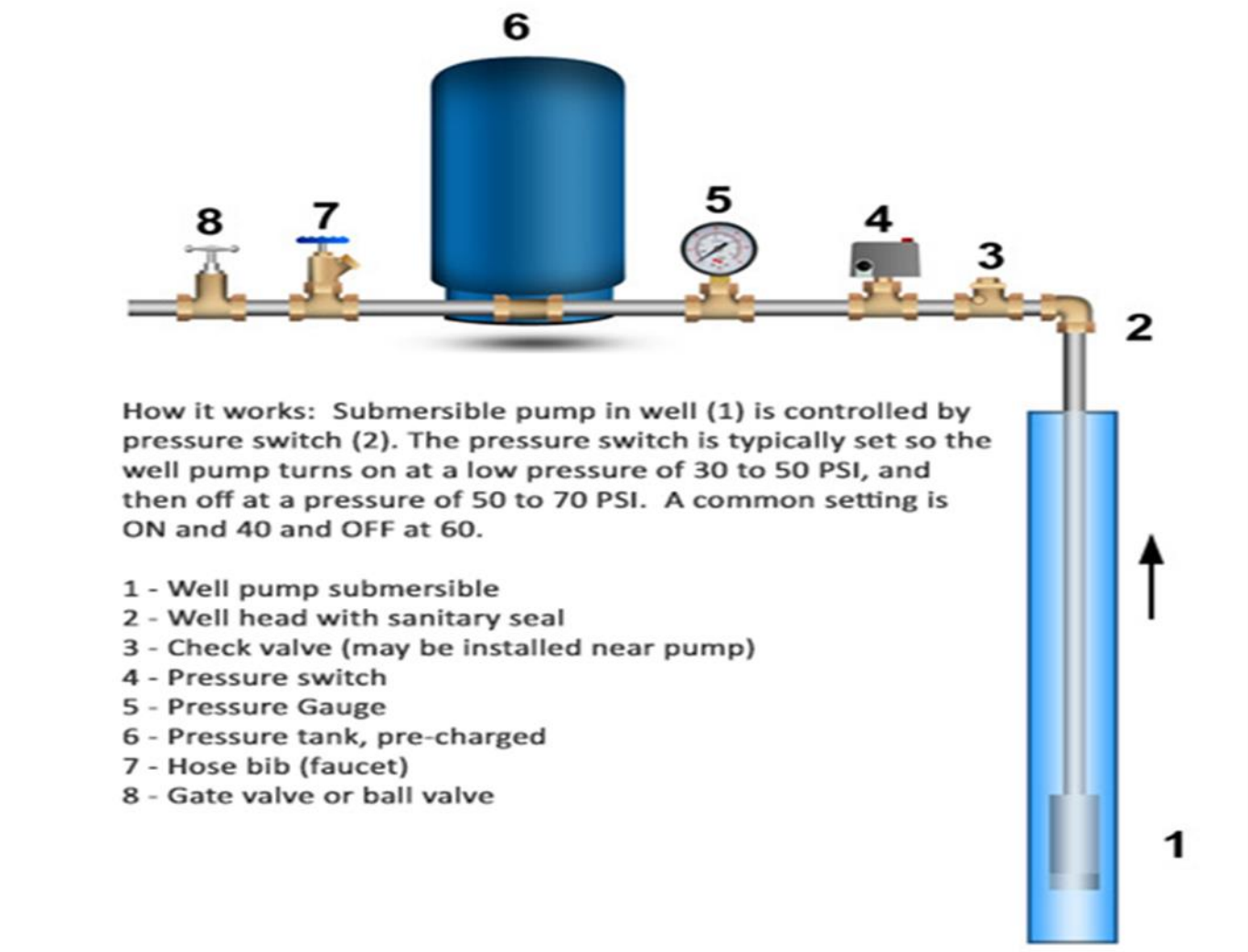
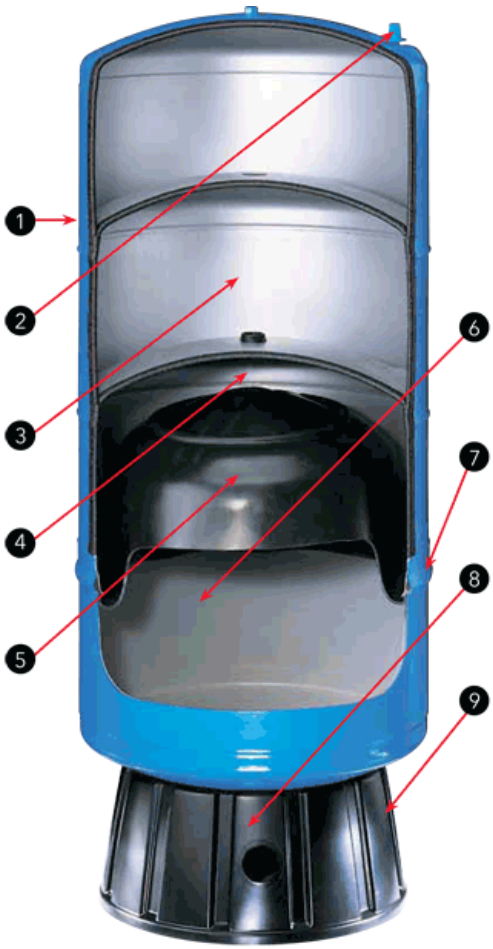
Welcome to How To Find Our Your Well Pumps Flow Rate in Gallons Per Minute. We'll show how you can find out your well pump's flow rate in gallons per minute.



A typical well pump is controlled by a pressure switch. The pressure switch is set so the well pump turns on at a fixed lower pressure (usually 30 to 50 PSI) and turns off at high pressure of 50 to 70 PSI.



1. **Rugged, impact resistant exterior coatings.**
   Holds up under severe conditions.
2. **Tamper proof mechanical-fit air valve.**
   No heat distortion from brazing. Recessed to prevent damage during shipping.
3. **Deep drawn steel shell.**
   For added structural strength. Maximum working pressure 125 psi. (Except: V45MP & V60MP.)
4. **Steel inner shell and insert.**
   Prevents over expansion of diaphragm for longer life.
5. **Heavy-duty butyl diaphragm.**
   High quality FDA approved material for long, dependable service.
6. **Rigid polypropylene liner.**
   Meets FDA and NSF requirements, providing maximum corrosion protection. Water never touches metal.
7. **Patented positive retention system.**
   Securely fastens diaphragm and liner for years of reliable service.
8. **Stainless steel system connection.**
   For optimal corrosion resistance.
9. **Corrosion-proof base.**
   High density polyethylene is structurally reinforced for added strength. High profile design provides easy access for water hookup.

We will be covering how to check your well water flow rate, for a standard single-speed pump controlled by a pressure switch.

Single Speed Submersible Pump Systems Controlled by Pressure Switches

Constant Pressure or ‘Variable Speed’ Pump Systems

To check flow rate from well for a constant pressure system, consult with the well contractor, or supply us with the well water records and model and type of controller used.

You may have a submersible pump that is variable speed and is referred to as a 'constant pressure system', meaning it maintains a single fixed pressure in the home. Often a constant pressure system will have a very small expansion tank and a controller and pressure sensor, instead of the larger standard pressure tank and pressure switch. This video does not pertain to you, and if do you have a constant pressure system, and its best to consult your well contractor to find out the specs on what your flow rate is for this type of system.

FLOW RATE is simply defined as how many **Gallons In One Minute** is pumping from your well when your well pump is running.

This is determined generally by the size of your well pump, and to an extent, the capacity of your well.

Step 1

OPEN A SPIGOT OR FAUCET to get the well pump started

Make sure no one else is using water in the home
Open any spigot, hose bib or faucet until you can hear the well pump kick and start to run.

Step 2

CLOSE SPIGOT OR FAUCET

Allow well pump to fill pressure tank and shut off.
Now the pressure tank is full.

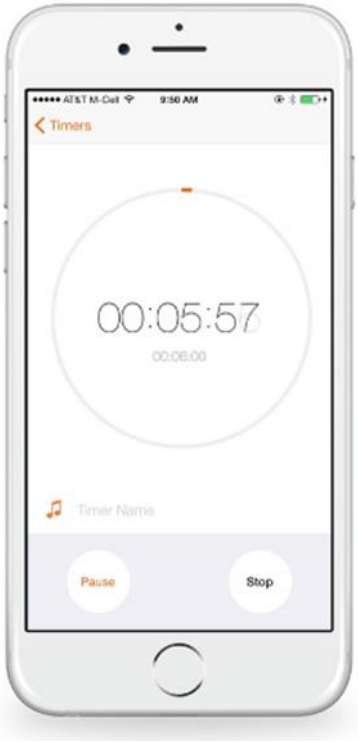
Step 3

USE A 5 GALLON BUCKET MEASURE WATER FROM PRESSURE TANK

Using a hose bib or spigot, run the water into a 5 gallon bucket. Make a note as to how many gallons you can collect, BEFORE the well pump turns back on.
This is called DRAW DOWN.

Step 4

TIME THE PUMP CYCLE IN SECONDS



After running the spigot or faucet, at some point the well pump will turn back on. When pump turns on, immediately close spigot or faucet and start timing pump cycle in seconds.
For example if it takes 3 minutes to fill pressure tank and for the well pump to shut off, make a note of 180 seconds. (3 minutes x 60 seconds = 180 seconds)

Step 5

DIVIDE NUMBER OF GALLONS

Divide the number of gallon s collected in Step 3 by the n umber of seconds in Step 4.

Step 6

MULTIPLY ANSWER BY 60

Multiply the answer from Step 5 by 60.

The answer in Step 6 is the average pumping capacity of the pu mp in gallons per minute (GPM).

Example: Number of Gallons collected during draw-down of pressure tank (Step 3) = 5 gallons

Number of Seconds in pump cycle to refill pressure tank (Step 4) = 25 seconds

Gallons Per Minute (GPM) = (5 divided by 25, times 60 = 12 GPM

Visit www.wellowner.org

Questions?

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- Or email us at support@cleanwaterstore.com
- Visit www.CleanWaterStore.com