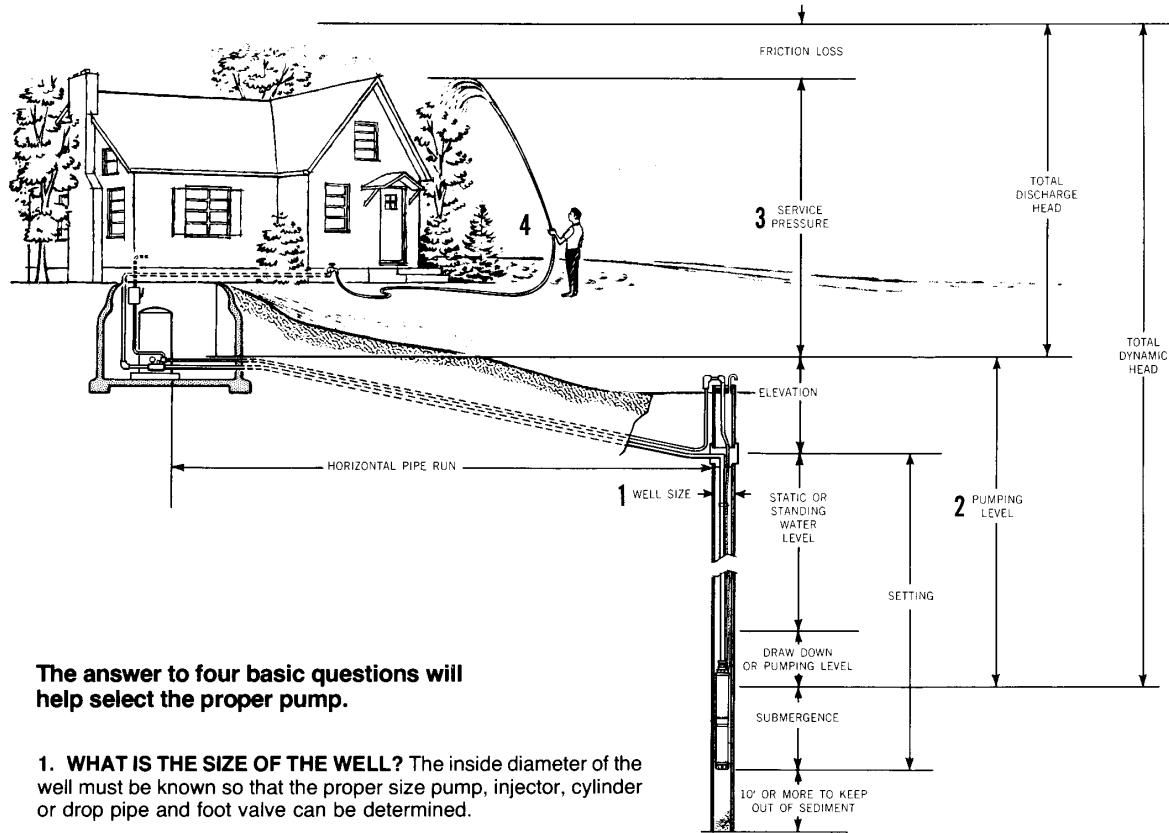


HOW TO SELECT THE CORRECT SUBMERSIBLE PUMPING EQUIPMENT



The answer to four basic questions will help select the proper pump.

1. WHAT IS THE SIZE OF THE WELL? The inside diameter of the well must be known so that the proper size pump, injector, cylinder or drop pipe and foot valve can be determined.

2. WHAT IS THE PUMPING LEVEL? The vertical distance in feet from the pump to the water level while the pump is operating. If the pump is installed away from the well and is on higher ground, this elevation must also be included. Most wells draw down while being pumped so this must not be confused with the standing water level.

3. WHAT SHOULD BE THE AVERAGE DISCHARGE PRESSURE? Usual average discharge pressure is 30 lbs.—halfway between the 20 lb. to 40 lb. switch setting of most water systems. When the tank is installed away from the pump at a higher level, or when house or yard fixtures are above the pump and tank, a greater pressure is needed and a larger pump must be used.

4. WHAT CAPACITY IS REQUIRED? The discharge capacity of the pump in gallons per hour that is needed for satisfactory service. The pump should have enough capacity so that it does not need to work more than the equivalent in intermittent service of 2 hours per day. See table of water requirements at right.

AVERAGE WATER REQUIREMENTS FOR GENERAL SERVICE AROUND THE HOME AND FARM	
Each person per day, for all purposes	75 gal.
Each horse, dry cow or beef animal	12 gal.
Each milking cow	35 gal.
Each hog per day	4 gal.
Each sheep per day	2 gal.
Each 100 chickens per day	4 gal.

AVERAGE AMOUNT OF WATER REQUIRED BY VARIOUS HOME AND YARD FIXTURES	
Drinking fountain, continuously flowing	50 to 100 gal. per day
Each shower bath	Up to 30 gal. @ 3-5 GPM
To fill bathtub	30 gal.
To flush toilet	6 gal.
To fill lavatory	2 gal.
To sprinkle 1/4" of water on each 1000 square feet of lawn	160 gal.
Dish Washing Machine — per load	7 gal. @ 4 GPM
Automatic washer — per load	Up to 50 gal. @ 4-6 GPM
Regeneration of Domestic Water Softener	50-100 gal.

AVERAGE FLOW RATE REQUIREMENTS BY VARIOUS FIXTURES	
(g.p.m. equals gal. per minute; g.p.h. equals gal. per hour)	
Shower	3-5 g.p.m.
Bathtub	3-5 g.p.m.
Toilet	3 g.p.m.
Lavatory	3 g.p.m.
Kitchen sink	2 to 3 g.p.m.
1/2" hose and nozzle	200 g.p.h.
3/4" hose and nozzle	300 g.p.h.
Lawn sprinkler	120 g.p.h.