



## SIMPLE PUMP OVERVIEW

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The SIMPLE PUMP Company manufactures potable drinking water pumps based on a basic design used since the 1850's, now having been updated with precision machining and the highest quality materials of construction. Two sizes of pump cylinders are offered...a 3GPM model and a 5GPM model. Both utilize a positive displacement, self-priming, progressive lift sucker rod pump designed with a stainless steel pump cylinder body and a machined PVC piston and stainless steel piston rod. Drop pipes are 1" schedule 80 PVC and the sucker rods are lightweight 20,000lb. (tensile) fiberglass with fused stainless steel ends.

Simple Pumps are Safe Drinking Water Act compliant in that all contact parts are approved for use with drinking water and Simple Pumps are freeze-proof by way of a weep hole drilled in the top drop pipe at 48 inches below the top fitting which allows the water to drain back to below the frost line when not in use.

### **SIMPLE PUMPS ARE OFFERED IN SEVERAL POWER INPUT CONFIGURATIONS**

- ▶ Lever-arm configuration (manual powered)
- ▶ 12/24VDC Motorized configuration (solar or battery-powered)
- ▶ ADA-compliant crank input configuration (USDA-FS model - ADA100)

The ADA100 and 12/24VDC Motor drive systems are based on a scotch yoke design whereby rotational motion is converted into linear motion, much like steam locomotive drive systems from years ago. The ADA100 utilizes hand-crank input combined with a 10 lb. counter weight that assists with the lift cycle. The 12/24VDC Motor is a 1/5hp 60/120RPM model. With the ADA100 just 5 lbs (or less) of input force is required for a wheel-chair bound person to easily lift 1-2GPM from up to 90 feet static water depth. The ADA100 and 12/24VDC Motor versions are adjustable for site-specific static water level. Decreasing the amount of input force or energy is accomplished by decreasing the stroke length, which is accomplished by decreasing the diameter of cam rotation in the scotch yoke. Less stroke = less water per rotation = less input force required.

Simple Pumps have very few points of wear - at the double u-cup seals on the piston and at the rod seal in the pump head and at the rod guides in the drop pipe (one rod guide per 9' section). The u-cup seals and rod guides sell for \$5.00 each and last for many years before replacement.

The cost of a complete 5gpm lever-arm system to pump water from 100 static is less than \$1,200 retail.

All Simple PUMP prices are F.O.B.-Gardnerville, Nevada. Pumps are shipped UPS-ground at approximately \$130.00 per system to the lower 48 states.

Kind Regards,

Gary Wittig

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