

# ProStep™ Pumping Packages

For years the effluent pump has been seen merely as a tool to lift wastewater to an elevated field. The Orenco® packages sold, installed, and maintained by Valley Precast can do more. Our products are currently treating wastewater in many applications including effluent sewers, drain fields, and filters, packed bed filters, mound systems, wetlands, lagoons, and other applications. Duplex pump systems, solids handling, and grinder pumps are also available.

The package comes complete so all associated components are manufactured to work together. The seven main components are listed below:

1. **Biotube® Pump Vault** – This is the foundation of the system with over 12 square feet of filtering capacity, several times that of other filters. This removes about two thirds of the suspended solids on average.
2. **Splice Box** – A watertight, corrosion proof box mounted on the inside of the riser allowing for easy hook-up and maintenance.
3. **Riser, Lid & Accessories** – Allows for a watertight connection and easy access.
4. **Float Switch Assembly** – The quick release stem allows for maintenance without entry into the tank. Standard floats include an on/off/high level alarm. A variety of configurations can be specified for many different situations.
5. **Discharge Assembly** – Valley Precast has worked with Orenco® to create a simple no hassle discharge assembly designed to flow back into the tank in our cold climate.
6. **Effluent Pump** – We stock 8-10 different sizes of pumps for quick turn-around to the customer. The pumps are lightweight, long-life pumps with life expectancy of 25+ years with regular tank cleaning.
7. **Control Panel** – Standard control panels are designed with 'touch-safe' bars and audible and visual alarms. Custom panels can be ordered with timers, counters, heaters and now programmable and telemetry panels are available.

We have a CD-ROM available to aid in design of your system. The PumpSelect™ program helps make error-free hydraulic calculations for pump sizing. Support literature is also available for end-users to aid in preventative maintenance.

We take pride in assisting our customers in specifying pump systems. The following information can be used as a guide for determining placement volume from all sizes of Valley Precast tanks.

Per size, inches	Volume in gallons per foot of pipe	Volume in gallons per 100 ft of pipe
1	0.04	4
1 ¼	0.07	7
1 ½	0.10	10
2	0.17	17
2 ½	0.24	24
3	0.38	38
4	0.65	65