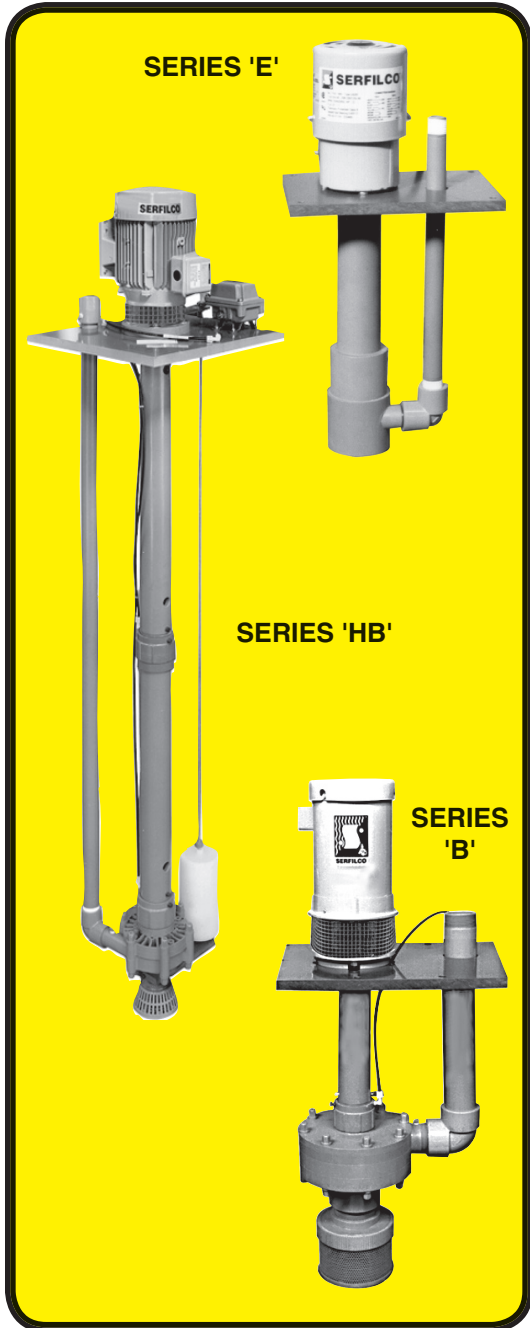




VERTICAL PLASTIC PUMPS



PERFECT FOR HANDLING MOST SOLUTIONS:

**WASTE / ACID / PLATING
CHEMICAL / CHEMICAL MILLING
PHOTOGRAPHIC / ETCHING,
CLEANING & SCRUBBING**

Here are all-purpose corrosion-resistant chemical pumps that you'll find very helpful around your plant. They are just right for transferring solutions from one tank to another, or for recirculating solutions. They can be used for either continuous or intermittent duty. Each pump is engineered for a specific flow rate and head to meet desired lift for your particular transfer or filtration work.

- **NON-METALLIC SOLUTION CONTACT**
Choose from many materials of construction.
- **WITHOUT BEARING FOR SHORT LENGTHS**
Can be run dry without pump damage.
- **WITH BEARINGS FOR LONGER LENGTHS**
Up to 12 feet (3.6m)
- **HIGH EFFICIENCY**
Less horsepower required.
- **TO 1500 U.S. GPM OR 350 ft. @ 60 Hz**
(350m³/hr or 105m @ 50 Hz)
- **CENTRIFUGAL**
- **CHEMICAL DUTY MOTORS**

**SELECT THE PUMP BEST SUITED
FOR YOUR APPLICATION**

SERIES 'E', 'EC', 'O', 'EH' & 'EHM'

These pumps are available in a choice of sizes. They are suggested for OEM and other applications where standard lengths are adequate. Open tolerances permit these pumps to be operated dry.

SERIES 'HB'

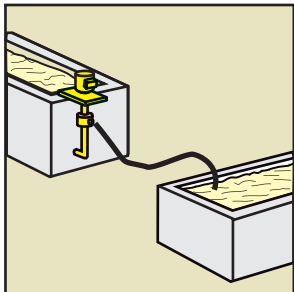
Available in various sizes and lengths with single or multiple bearings available to help maintain alignment of cantilever shafts. Maintenance is minimal.

SERIES 'B'

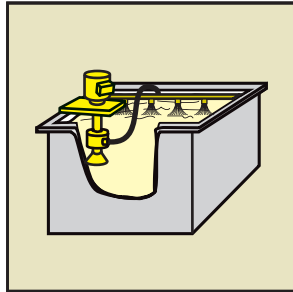
Heavier construction . . . for maximum duty particularly when high speed motors are employed or when pumps are built to maximum lengths for operation at low RPM.

SERIES 'VGRP'

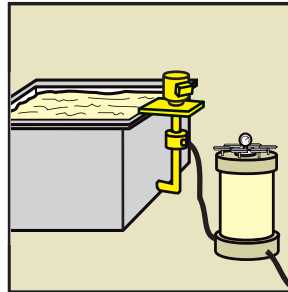
With metal shafts for lengths to 10 ft. and flow rates of 1500 U.S. GPM or 350 ft. TDH.



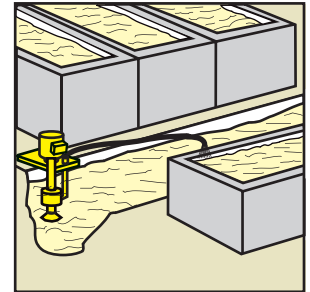
TRANSFER PUMPING



RECIRCULATION PUMPING



FILTER PUMPING



DEEP STANDBY

TIPS FOR THE SUCCESSFUL OPERATION OF SUMP PUMPS

LENGTH X SPEED

Pumps should be specified as short as possible and driven as slowly as possible, since the longer the pump is, or the faster the RPM, the greater the radial load is on the bearing surfaces.

ALIGNMENT

Although factory installed and inspected, proper positioning of the pump with the motor should be checked initially and after periodic operating intervals to assure that misalignment has not occurred, which would place undue wear on the bearing or seal ring surfaces.

PUMP SIZE

Should be considered since it determines the frequency of the pump operation. Oversize your sump when possible to keep the pump operating at longer, continuous intervals rather than constantly stopping and starting, to avoid torque vibration and possible misalignment.

AUXILIARY PUMP FLOAT

Design for the possibility of pump operating interruptions. For standby operation, employ two or more pumps for continuous or partial operation. For example, for a 100 GPM requirement, employ two pumps at 100 GPM each or three at 50 GPM each, keeping one ready for service.

SETTINGS ABRASIVE CONDITIONS

Make certain adequate liquid is above the pump, but not so high as to cause problems with the motor. Set the pump shut-off above the pump, if at all possible, since the liquid in the reservoir is used as the seal. However, if necessary, continue to pump to a level below the intake with a suction extension. A lower flow may occur if sufficient back-pressure is not available in the discharge piping to assure an adequate amount of liquid in the bypass to form a liquid seal in the bearing area. When this seal is not formed, air mixes with the liquid being pumped and a reduction in pumping capacity is experienced.

May be met if a separate, clean compatible liquid can be used for flushing* to lubricate and cool the bearings. This is especially required when more than one bearing is used. Cantilever shaft, bearing-free pumps are offered for pumping solutions containing abrasives.

* See separate bulletin for DRI-STOP protection.

PUMP STATIONS

For corrosive chemicals and waste solutions

Select accessories individually to complete your chemical collection, treatment or transfer system.

