Plunger Pump

Engineered for Heavy-Duty Service in Difficult Sludge, Slurry, Float Transfer, or Metering Applications

It is a self-priming positive displacement pump that can pass solid objects up to 1 3/4" in diameter (depending on the model), rags, or entrained air. Our pumps have capacities of 34 liters per second (540 gpm) at heads to 90 meters (300 feet). K-S has pump installations that are over 55 years old.

- Self-priming
- Can pump viscous fluids
- Can run dry

Benefits

Self priming with ability to handle suction- fts and entrained gases

- Positive displacement
- Can run dry without damage
- Flow rate is not system head dependent
- Flow rate is not sludge concentration dependent
- Positive metering
- High volumetric efficiencies, 90% and higher
- No critical tolerances
- Flow rate consistent throughout life of pump
- Easy clean out capability
- Large internal clearances
- Handles high solids concentrations
- Built-in overload protection

- Low cost of maintenance
- Common replacement parts are easily accessible

Design

- Units are available as simplex, duplex, triplex and quadruplex designs for flow rates up to 550 GPM and heads up to 300 ft.
- Constructed of heavy duty 30,000-40,000 close grained iron which enables operating pressures up to 130 psi and hydrostatic test pressures up to 200 psi
- Fully sectionalized design for easy repair and replacement of parts
- Adjustable eccentrics for altering stroke length and providing overload protection
- Rigid 2" base plate design with 12" bearing pedestals which greatly reduces maintenance time involving alignment
- 4-bolt roller bearings for greater bearing- fe and strength
- Patented “Leak Free” packing designed to eliminate or drastically reduce the leakage commonly associated with plunger pumps.
- K-S introduced the separate and replaceable eccentric liners which reduce cost and maintenance time
- Hardened cast iron plungers available as standard with harder ceramic coatings and tungsten carbide coated plungers available for the most severe applications.
- K-S exclusive direct drive cycloidal arrangement that eliminates backlash commonly associated with other gear boxes or drive arrangements
- Valve chamber with easily accessible valve seats of cast iron, stainless or rubber construction
- Our KSK design is ideal for areas where space is limited. 18" is the maximum width when the pump is set up in an in-line arrangement.

System

- Automated lubrication systems involving either an electric solenoid oiler or a shaft driven, mechanical force feed oiler.
- Mechanical or variable frequency speed control