

K-S Plunger Pump

Why a Plunger Pump?

- **Long Life:** Heavy-duty cast iron construction means plunger pumps can handle high working pressures over a long life. K-S has pump installations that are over 40 years old.
- **Consistent Flow:** The volumetric efficiency of a plunger pump is not significantly diminished by plunger or packing wear.
- **Continuous Operation:** Because plunger pumps run dry without incurring damage, they can operate unattended.
- **Self-Priming:** K-S pumps are self-priming and capable of pulling suction lifts of 15 feet or more. They can run dry without damage.
- **Less Clogging:** Large internal clearances can pass 1-3/4" solids without clogging.
- **Variable Flow Rate:** Multiple pin positions protect the pump and enable flow rates to be adjusted, even with a constant speed pump. Variable speed drives are also available.
- **Easy to Operate and Maintain:** Simplicity in design makes plunger pumps a snap to maintain. Replacement parts are inexpensive and easy to install.
- **Improved Materials:** Use of new packings, new valve ball materials and plunger coatings has virtually eliminated past deficiencies in the plunger pump.

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1 Replaceable Eccentric Liners -

All connecting rods have a separate replaceable liner of marine grade babbitt or phenolic which minimizes the cost and time associated with hot poured liners and will not wear the eccentric as other materials will.

2 Main Shaft Bearings -

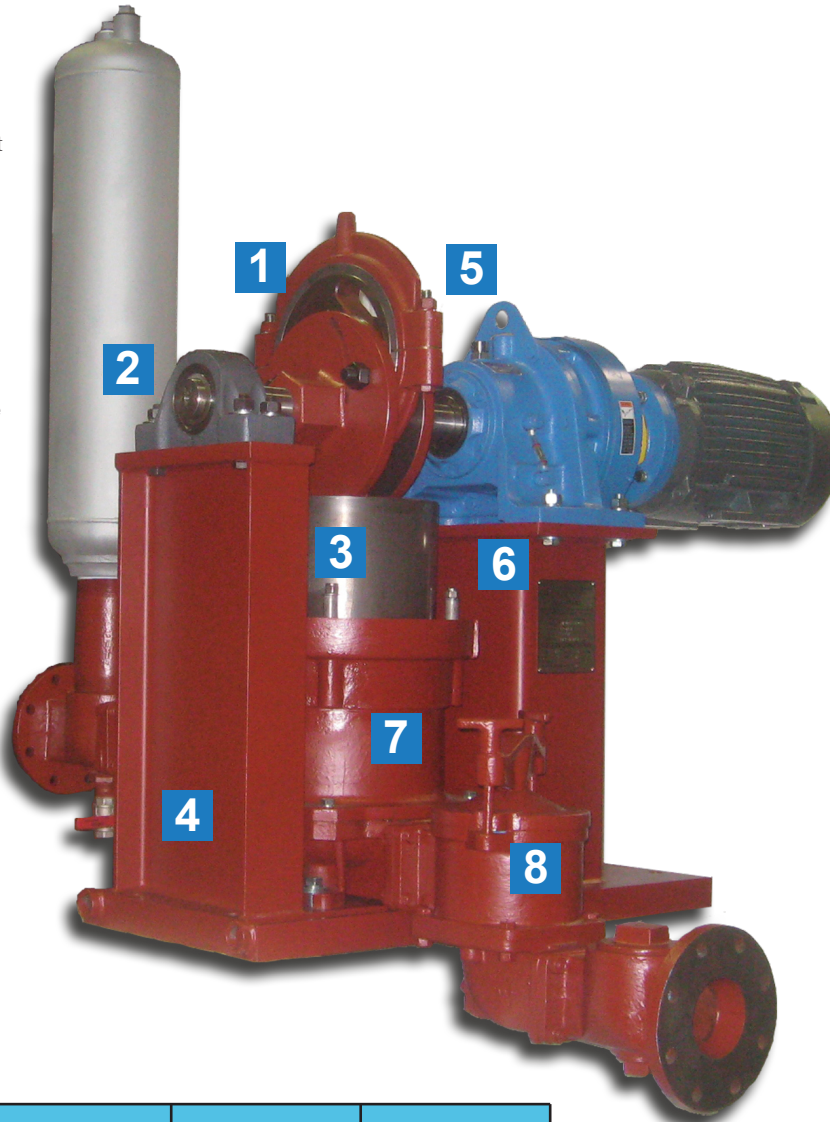
K-S uses 4-bolt roller bearings that increase bearing life. Bearings are secured to the bearing pedestals with four high strength bolts that do not weaken the pedestal when compared to two-bolts or studs.

3 Plungers -

The pumps are offered as simplex, duplex, triplex or quadruplex units with plungers constructed from ASTM A48 Class 40 cast iron with options including ductile iron and a variety of coatings to meet specific application requirements.

4 Frame -

Both the 2" steel plate base and 12" bearing pedestals give the pump greater moments of inertia minimizing flex and distortion making it the most structurally sound pump base on the market.



5 Direct Drive -

Cycloidal speed reducers have been specifically chosen for the unique ability of handling high shock loads and eliminating backlash associated with simplex and duplex pumps.

6 Completely Machined Base -

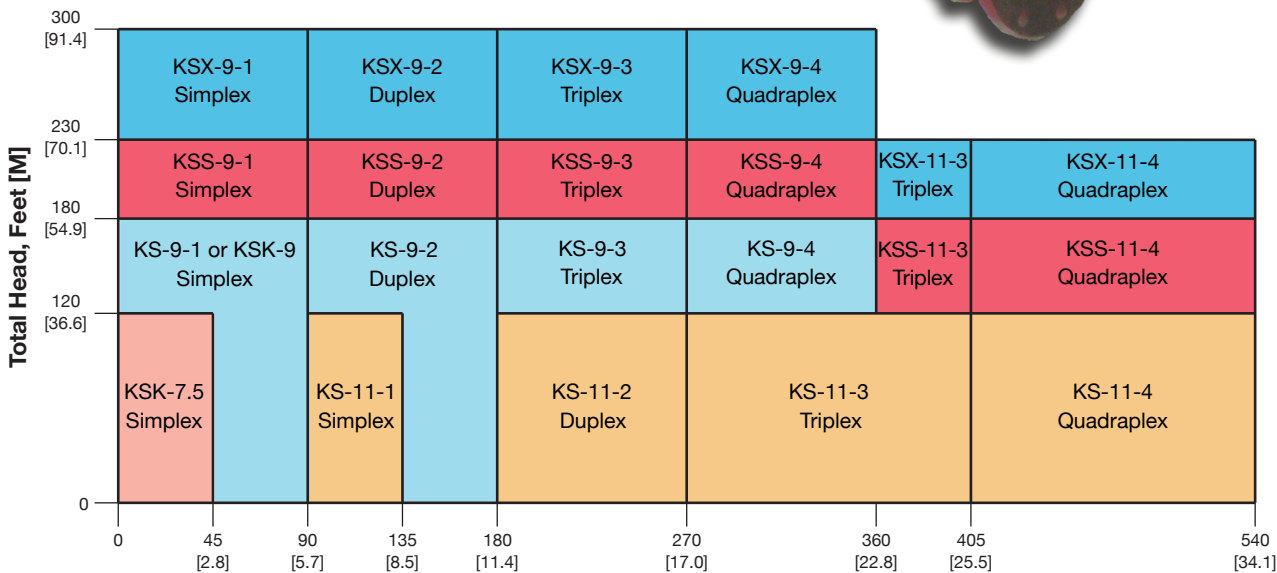
Machined mounting surfaces minimize or eliminate the need for shims and make future maintenance much simpler with fewer man-hours.

7 Leak Free Packing -

A patented leak free packing arrangement eliminates or greatly minimizes the leakage commonly associated with plunger pumps.

8 Valve Chambers -

Ball check valve assemblies offer positive seating to ensure the highest of volumetric efficiencies with the minimal amount of clogging. Units are offered as either single or dual valve chamber units. Ball valves are an abrasion resistant urethane rubber. Valve seats are cast iron, 316SS, or rubber and are replaceable without disturbing the valve chamber, elbow, or manifold. A tool free lid allows for easy access to the ball valve and valve seat for fast cleaning.



Use this Selection Chart to determine which K-S Model is right for you.

Pump. Thicken. Dewater. Dry.

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