



**Shanley Pump
& Equipment, Inc.**



SEP Series Progressive Cavity Pumps

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SEP SERIES PIVOT JOINT DESIGN

The SEP Series pivot joint offers unique advantages while simple in design.

At both ends of the coupling rod, which connects the rotor and drive shaft, are heavy duty pivot points.

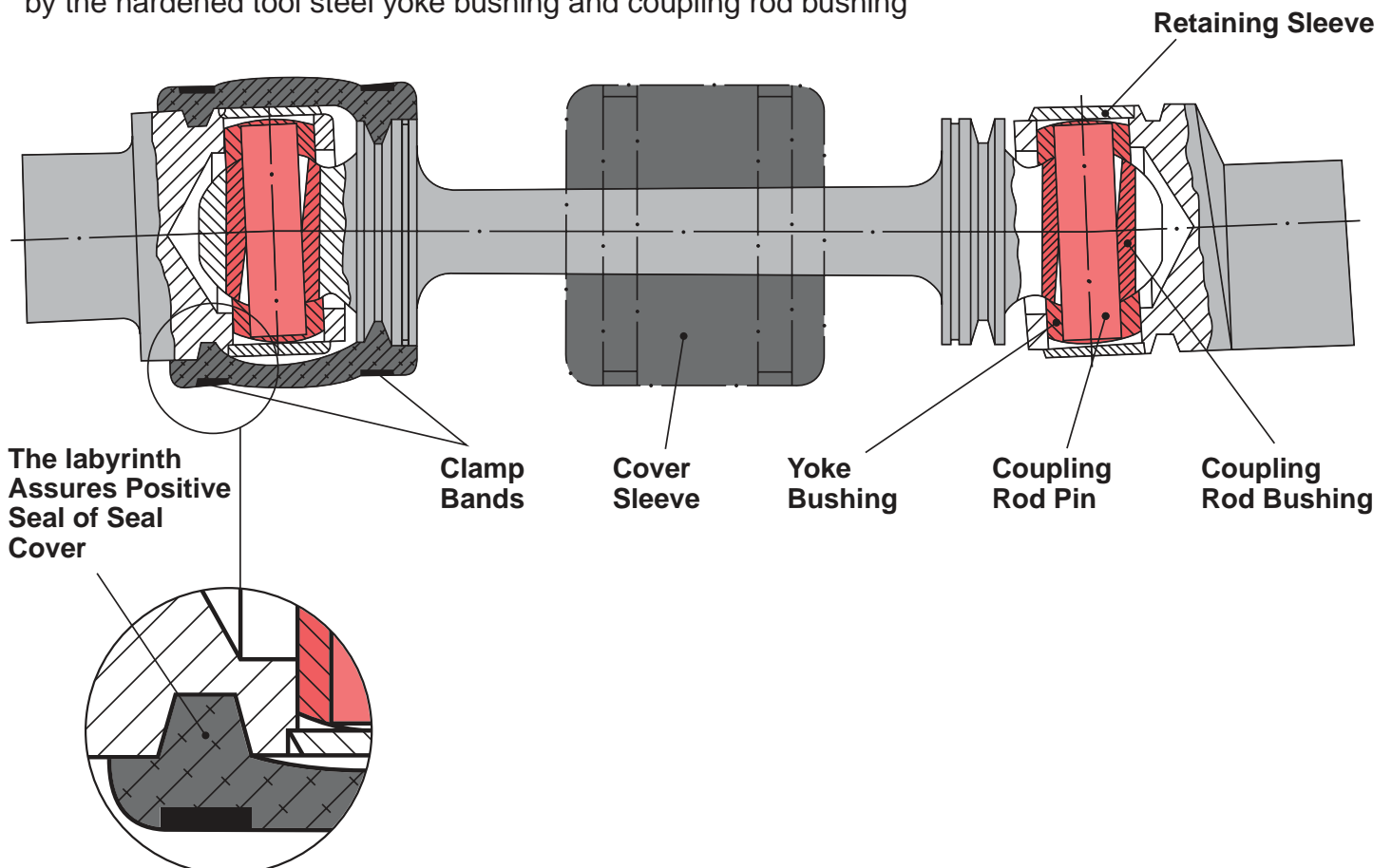
Each pivot joint consists of coupling rod bushings (inside conical), two yoke bushings and a coupling rod pin. All of these parts are made of hardened steel. A retaining sleeve prevents radial movement of the assembly.

The complete pivot joint assemblies are encapsulated with oil, and sealed by means of an elastomeric cover sleeve which fits into labyrinths at each end of the assembly, and fixed in position by "band-it"® bands.

Shanley Pump twenty years of experience and thousand of installations have proven that this design is one of the best available in the world today!

THE MAIN ADVANTAGES:

- Only four parts make up the pivot joint
- Easy maintenance and low cost replacement
- Unique cover sleeve seals pivot joint from fluid pumped
- Rotor, coupling rod and drive shaft connections are isolated from wear by the hardened tool steel yoke bushing and coupling rod bushing



FEATURES:

- 9 pump sizes immediately available from our inventory in cast iron and stainless steel
- Shaft packing or mechanical shaft seals available, all standard with shaft wear sleeves
- Flows to 750 GPM, Discharge Pressures to 350 PSI, Suction lift up to 28 feet
- Fluid viscosities to 300,000 Centistokes, Temperatures to 302 degrees Fahrenheit
- Cast Iron pumps have suction clean out/inspection ports
- Lubricated and sealed universal joints for long life

DESIGN:

The Shanley SEP Pump is a progressive cavity pump in 1 and 2 stage design. It's resilient and tested design is optimal for demanding pumping applications. It's ruggedized universal joints with wear bushings are sealed and lubricated from the pumped liquid to provide long service life. The SEP pump is available with equal wall stators for lower starting torque and higher discharge pressures.

USAGE:

The Shanley SEP Progressive Cavity Pump is an extremely versatile positive displacement pump with a non-pulsating flow that can be used in many different pumping applications. The SEP pump is specially designed for abrasion resistance in tough pumping applications and can pump up to 60% solids. The SEP pump is also ideal for liquids with higher viscosities, or thickness, than water. The gentle pumping action of the SEP pump makes it great for pumping shear sensitive fluids. The SEP pump is also used for pumping fluids with varying viscosities, for pumping against varying discharge pressures and for pumping applications requiring varying flows using a speed controller. Most commonly used for sludge and polymer at sewage treatment plants, feeding filters and filter presses, centrifuges, feeding oil water separation equipment, food pumping applications like honey, juice concentrate, grapes in wineries, crude oil, viscous chemicals, bilges on ships, coal water slurries and much more.

MAIN APPLICATIONS:

- Municipal waste water sludges and polymer
- Industrial
- Food processing
- Petrochemical



INDUSTRIES	APPLICATIONS			FLUIDS		
Municipal/Industrial	Transfer Service Sampling	Polymer Feed Dewatering Sludge Transfer	Chemical Feed	Effluent with & without solids Milk of Lime	General Sewage Slurry Media	Protective Chemicals
Industrial	Centrifuge Charging Transfer Filter Charging	Kiln Charging Drainage Tank Loading/Unloading	Pit Emptying Gas Scrubbers Metering Cellulose	Acids Adhesives Caustic Soda Grout Cement Slurry	Dye Liquor Dye Baths Flouring Piaster Lime Slurry Ink	Lyes Mortar Coal Slurry
Chemical	Process Transfer	Loading/Unloading Metering	Collecting	Acids Adhesives Colors Cosmetics Detergents	Glue Lacquers Hair Oil Hand Washing	Cream Paints Shampoos Waxes
Food Process & Production	Process Transfer	Loading/Unloading Metering	Collecting	Alcoholic Beverages Apple Puree Baby Food Beer Beet Sludge Biscuit Dough Citrus Fruit Masher	Cream Cheese Edible Oil Eggs. Raw Fats Fish Residues Fruit & Berry Masher Honey Ice Cream	Lard Meat Extract Milk Mustard Tomato Paste Vegetable Oil Wine Yeast
Chemical Process & Production	Transfer	Loading/Unloading	Metering	Crude Oil Oil Sludge	Oil Tank; Residues Processed Oil	Waste Products
Utilities	Transfer	Loading/Unloading		Fuel Oil	Coal/Oil Slurry	Coal/Water Slurry



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