

SUCKER ROD PUMP CLEANSWEEP

The **Sucker Rod Pump CleanSweep** is the solution for high solids in downhole oil well sucker rod pumps. One of the biggest problems facing high solids wells is the potential for solids buildup when the pump shuts down. This is a common problem that can be caused by pump off control, rod failure or electrical issues. Without the stroke movement, the fluid no longer moves upward, which allows solids to fall back into the pump. Solids build up in the pump causes wear and prevents the pump from starting back up due to sticking.

When the **SRP CleanSweep** is installed on the rod string above the pump in API insert or tubing pumps, this problem is avoided. The bristles on the **SRP CleanSweep** catch the solids and prevent them from traveling down into the pump.

The design of the **SRP CleanSweep's** center piece and brush allows the solids to travel up during pumping but prevent solids from traveling down in the event of pump shutdown. On the downstroke, the helical brushes rotate. On the upstroke, the **SRP CleanSweep** locks into place and lifts the solids. This action allows the solids to continuously move toward the surface. In the event of pump failure, the bristles will capture the solids and hold them in place so the solids can be removed further up in the tubing. The solids will not be allowed to fall back into the pump, therefore reducing pump wear and eliminating the need to pull the pump.

True to its name, the **SRP CleanSweep** also cleans the tubing of paraffin and scale. In addition to these benefits, the helical ends act as rod guides, which stabilize the rod string and reduce wear on the valve rod guide.

Material construction
Brush: High strength brass
Body: 4142 alloy steel, 140 ksi
Guides: Cobalt high temp urathane,
290° F max

US and Canada patents
World wide patents pending

BENEFITS INCLUDE:

- SOLIDS REMEDIATION
- CLEANS TUBING
- REDUCES PUMP FAILURE
- REDUCES VALVE ROD FAILURE
- REDUCES VALVE ROD LOADING
- REDUCES ROD CUT TUBING

SUCKER ROD PUMP CLEANSWEEP INSTALLATION INSTRUCTIONS

Installation of the Sucker Rod Pump CleanSweep is safe and simple for conventional SRP well designs. The SRP CleanSweep has been engineered for seamless integration at the wellsite into the drive rod string.

Use care when storing and handling. The SRP CleanSweep has been designed to withstand the tubing environment, but can be damaged by impact from heavy tools or other objects. Care should be taken not to damage the brush section.

SRP CleanSweep Installation

1. Remove thread protection from the pin ends and ensure both threads are clear of debris, damage and corrosion. If there is damage or corrosion on the threads, repair and clean before use.
2. Apply an appropriate and approved sucker rod thread lubricant to the pin threads, taking care to degrease the immediate area outside the connection.
3. Identify the orientation engraving on the CleanSweep and install accordingly. Performance will be effected if not orientated correctly.
4. Carefully place the CleanSweep bottom pin on the box coupling thread area and start the first thread by hand.
5. Hand tighten the box coupling onto the CleanSweep top pin until the shoulder touches the coupling box face.
6. Use the sucker rod manufacturer's power tong make up procedure for final tightening or manually tighten. Do not exceed the published maximum torque rating of the sucker rod pin-coupling connection based on the size and grade of steel and thread type.

The SRP CleanSweep should be installed on top of the valve rod connection or no further than two sucker rod length above the pump.

