

# Maximum Compression Pump

Versatile sucker rod pump for most downhole environments

## APPLICATIONS

- Wells with low to moderate gas
- Wells with low to moderate solids

## BENEFITS

- Achieves highest compression ratio, resulting in minimal gas interference issues
- Accepts most pump accessories

## FEATURES

- Double standing valve
- Oversized cage configuration
- Sand shield accessory

The maximum compression pump is an insert pump that has been modified using specific pump parts for optimal performance in a wide range of downhole environments. It may be further specialized by selecting specific metallurgy and coatings, such as stainless steel or brass for working in corrosive fluid.

This pump uses a double-valve, oversized cage configuration on the barrel to minimize the distance between the traveling valve and the standing valve without allowing the valves to touch. This close proximity between the two valves creates the highest compression ratio that can be achieved within sucker rod pumps, which minimizes gas interference and enables more complete pump fillage on every stroke.

Pumpoff controllers, variable speed drive units, and an optimized rod string design enables a steady pump throughout the entire system, which increases production and reduces workover costs by minimizing wear and tear on the pump, rods, tubing, wellhead, and pumping unit gears.

## Design features

The double valve serves as a failsafe mechanism, extending the lifespan of the standing valve and preventing fluid loss in the event one of the valves does not seat properly on any given stroke. The addition of a sand shield helps prevent solids from accumulating around the hold-down, which could cause the pump to stick.

## Enhance operational flexibility and extend the life of your rod lift system

Schlumberger offers a range of tools and specialty products engineered to address common problems such as rodstring wear and damage due to gas interference, erosion, or insufficient fluid levels. These products provide greater flexibility during operations and can extend the life of the rod lift system.

## Tools

- Prevent costly fishing jobs by easily retrieving fiberglass sucker rods with the shear tool.
- In the event of a stuck pump, the on-off tool enables retrieval of the rodstring and is capable of fishing and releasing broken rods without unseating the pump.
- Set and reset the pumping depth as needed with the insert pump anchor.

## Sand specialty product

- Direct solids away from the pump barrel, maintain downhole pump integrity, and extend run life with the sand diverter.



*Maximum compression pump.*

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## Other specialty products

- Extract gas for production in wells with high volumes of intermixed fluid and gas through the casing using a gas separator and alleviate the rod pump of most gas-related issues.
- Reduce solids accumulation and increase flow with a slimhole tubing anchor, which features beveled couplings and tapered connections to prevent sand from accumulating in the tool.

## PumpTrak system

- Continuously improve operations with the PumpTrak\* web-based pump service tracking system, which serves as a repository of detailed service information including service history, installation and pull date, days in use, and failure and cost analysis.
- Track why and how a failure occurred with insights into well properties and actively address its existing challenges by replacing the pump with a fit-for-purpose solution.
- Easily export reports to Excel®, view high-resolution photographs and cost information in real time, review supply and tubing anchor tickets, and download dynamometer and fluid level reports.

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