

Improved Hollow Tube Pump

Sucker rod pump for extreme gas handling

APPLICATIONS

- Wells with extremely high quantities of gas
- Wells with zero to very low solids volumes
- Pumping below a packer

BENEFITS

- Enables highly effective gas handling

FEATURES

- Double traveling valve
- Double oversized standing valve
- Mercury plunger

The improved hollow tube pump is efficient at moving gas through the pump and is designed for pumping underneath a packer, which prevents gas from traveling up the casing annulus. Using two plungers—with one acting as a hollow valve rod—and two barrels enables an extremely tight plunger-to-barrel fit, resulting in precise gas transference. The extremely tight fit in this pump makes it suitable for use with little to no solids.

Design features

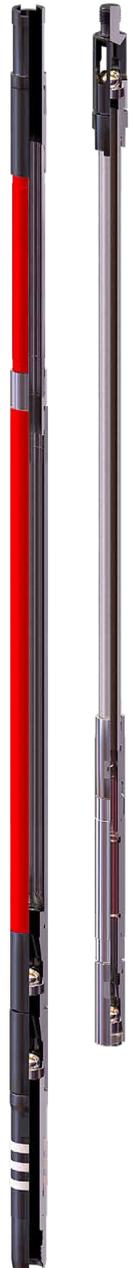
The double-valve configuration helps to provide maximum compression and extend valve lifespan. The open cage at the top of the pump mimics the two-stage hollow valve rod pump by holding the hydrostatic pressure and enabling the lower traveling valve to easily open.

The improved hollow tube pump's extremely rigid design effectively extends the life of the pump, rods, tubing, and gearbox by virtually eliminating destruction due to gas pound and lock. Taking the idea of a hollow valve rod a step further, this design instead uses a mercury plunger with greater wall thickness and a spray-metal coating for increased wear resistance and smooth operation.

An API-modified oversized cage increases the flow area inside the cage without a loss of strength, improves solids flow-through, and increases pump efficiency.

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.



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