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Progressive Cavity Pump

Application

A downhole progressive cavity pump connects the stator and the rotor of the pump to the end of the tube and sucker rod. The ground drive equipment then rotates the rotor through use of the sucker rod, thereby lifting underground liquid to the surface. This cavity pump is often used lift crude oil under 8000mPa.s, making it useful for most thick oil wells, such as high sand wells, high gas wells, offshore oil field cluster well groups, horizontal wells and more.



Technical Parameters

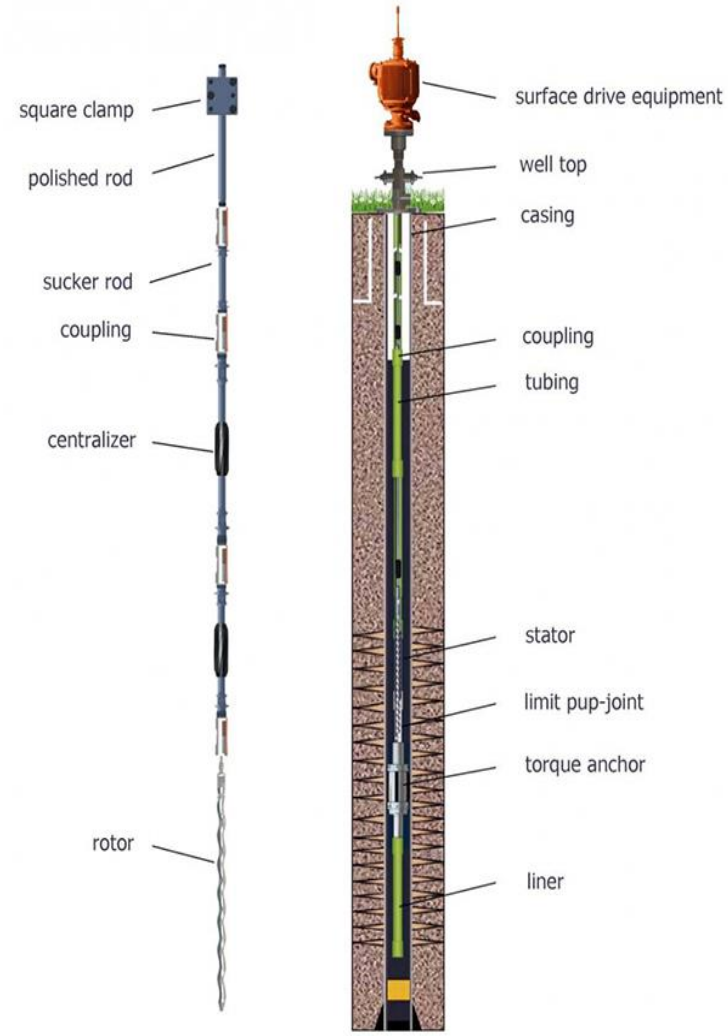
- Heat resistance: ≤150°C;
- Fluid viscosity of well fluid: ≤8000mpa•s;
- GOR: ＜10m³/m³.
- Submergence: ≥100m
- Volume of H2S: ≤2.5%;
- Relative density of well fluid: ≤0.96,
- API gravity: >16
- Maximum depth: 2400m
- Well fluid sediment concentration: ≤10%
- Work efficiency: 1.5-170m³/day

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Pump parts

Stator: the rubber component is made of high performance rubber (such as NBR, NBRH, HNBR, or FKM) that features an outstanding oil, water, high temperature and swelling resistance.

Rotor: The pump rotor is made of 45 steel, 42CrM alloy steel, 2Cr13, 304 stainless steel, 316 stainless steel and other steel materials. It is produced using high precision CNC screw processing equipment, then surface plated with chrome in order to achieve additional wear and corrosion resistance.



Features

1. Small one-time investment

Compared to electric submersible pumps, a hydraulic piston pump and beam pumping unit, the downhole progressive cavity pump is easy to use with a low, one time investment.

2. High efficiency, energy saving

The operation load is stable, with a mechanical loss range small at 75%, and mechanical loss of the plunger and centrifugal pump only at 30-40%. [GF2]

3. Simple structure

The pump body has a small volume, as well as a small transportation and installation space, making it easy to install and keep maintenance costs low.

4. We can provide the necessary equipment such as a shaft driving device, oil pipe anchor, and oil rod centralizer