

MUST-KNOWS about Progressing Cavity Pumps



Want to reduce your operating expenses and increase production efficiency?

Progressing Cavity Pumps (PCPs) might be the right option for you. PCPs are positive displacement pumps engineered to deliver variable rates and constant head capable of handling various types of applications with superior sand-lifting capability. They have lower operating and capital costs, partly due to their simple design and installation and low power consumption compared with other artificial lift methods. PCPs also handle solids and high-viscosity fluids better than other forms of artificial lift. Read on to learn 10 ways PCPs can improve your wells.

1. Maximum Production Efficiency

PCPs offer one of the highest production efficiency of any artificial lift technology, which means pumping up your bottom line has never been easier.

2. High Energy Efficiency

Typically, PCPs deliver 80% total system efficiency—the ratio of lifting power to input power—much higher than other artificial lift methods such as rod pumps, ESPs, jet pumps, and gas lift.

3. Remarkable Versatility

With a wide operating range, PCPs are capable of handling oil from 6 to 49 API, low to high viscosities, and high-sand-cut applications.

4. Corrosives, Abrasives, and Aromatics Handling

PCPs can survive in tough conditions, including

- High aromatics
- Up to 20% CO₂
- From 0 to 100% water cut
- Up to 15% H₂S
- Corrosives (with coated rotors)
- Abrasives

5. Heat Tolerance

High-temperature PCPs are available for thermal applications and are capable of withstanding temperatures up to 350 degC [660 degF].

6. Easy Installation

PCPs have no large parts to move, so setup is a breeze. Typically, PCP setup is 30% faster compared with other artificial lift systems.

7. Compact Size

The small footprint makes it easier to work around. The compact design also makes it less noticeable compared with other forms of artificial lift.

8. Rapid Availability

Easy accessibility to products means you can start production quickly. Local service centers are close to the action, enabling short delivery times.

9. Flexible Drive Options

- Electric or hydraulic drive heads
- Power units and generator sets
- Propane, casing gas, diesel, or grid power: Powering up has never been easier.

10. Automation and Optimization

Advanced PCPs are available fully automated to monitor torque, measure flow rates, and adjust pump speed so you get the most from your well every time. These systems can be remotely accessible, which enable you to make changes anytime, anywhere.

Want to learn more about PCPs or have a specific question regarding your application?

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