

Mission Blak-JAK PowerLast Fluid End

Durable, efficient mud pump fluid end designed for pressures up to 10,000 psi.

Drilling farther and faster in complex environments requires durable and reliable equipment for rising pressure demands. NOV's PowerLast™ fluid end is lightweight, resilient, and designed to handle intense pressures and high flow rates.

Our robust PowerLast fluid end is unmatched in high-pressure drilling applications. Its unique valve integrated dampener handles pressures up to 10,000 psi. Additionally, this technology extends the life of expendable parts, reducing your total cost of ownership and downtime.

The lightweight and compact design features three modules, versus the conventional style fluid end. This reduces the weight of the complete fluid end by one ton. The more efficient system reduces cost, and its versatility makes the PowerLast fluid end compatible with multiple mud pump models.

Features and Benefits

Complete FE System

- Pressure capability up to 10,000 psi
- Increased volumetric efficiency
- Lightweight and compact design reduces costs
- Pump model versatility
- Longer expendable life lowers downtime and maintenance costs

Valve Integrated Dampener (VID)

- Designed to enhance performance through optimized design and mass.
- Smaller and lighter than most conventional valves.
- Shaped to ensure alignment is independent of the valve's front end, aiding in fluid velocity and flow control through the seat.
- Enables a reduced bore size in the block, decreasing the overall size and significantly reducing weight.
- Provides a 10% to 20% improvement in volumetric efficiency compared to a conventional L-shaped fluid end.

