

Blue Lightning™ Piston

BLUE LIGHTNING™ PISTON SOLUTION

National Oilwell's Mission® group has teamed with customer focus teams seeking a solution to today's hostile mud pump operating environments. The result is a breakthrough piston design that delivers the following:

- Higher temperature resistance
- Higher pressure capabilities
- Consistent run times over 5,000 psi
- Predictable service life over existing technology
- Reverse compatibility to existing piston rods

The Blue Lightning Piston introduces new proprietary technologies into today's mud pump piston and is particularly well suited for Ceramic Liners.

All features and benefits listed below add up to a piston that outperforms today's technology. For additional information see your National Oilwell Representative.



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FEATURES AND BENEFITS:

Anti-Extrusion Device

- Natural bearing feature for reduced friction
- Self-centering feature for reducing piston body contact with liner wall
- Consistent with run times
- Predictable and longer service life compared to existing mud pump pistons
- Excellent performance at pressures above 5000 psi

New Blue Elastomeric Compound

- Increased temperature resistance
- Additional resistance to chemical attack
- Resistance to particle embedment for operating at extreme pressures
- Consistent run times

Piston Body

- Heat treated alloy steel for smaller bore sizes for today's extreme pump pressures
- Reduced mass lower weight
- Reverse compatibility to existing piston rods

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