



Bonded Urethane and Premium Pistons

OTECO's innovative bonded polyurethane piston dramatically extends service life in triplex mud pumps with ample water cooling. Harder, more dense polyurethane construction provides superior resistance to abrasive fluids providing optimum service life in harsh drilling conditions. In addition, the urethane construction is especially resistant to chemicals and oil based drilling muds with varying aniline points.

The multi-ply, fabric reinforced backing used in the production of the piston rubbers provide positive, wear resistant seals. High tensile strength, resistance to chemicals, hydrocarbons, and abrasion, long lasting service, and full interchangeability with other API designed pistons makes the OTECO Premium piston a sound value.



Wing Guided Valves and Full Open Seats

The OTECO premium wing guided valve and full open seat features greater fluid flow through the full open seat. The full open seat provides easier valve maintenance and seat pulling, in valve-over-valve fluid ends. Innovative unibody valve design eliminates snap rings, plates or keepers providing reduced maintenance by snap-on valve inserts. This combination will handle lost circulation material better than most conventional style valves and seats while the seating angle greatly improves flow characteristics and the heavy-duty load bearing capacity greatly improves service life.



Premium Stem Guided Valves & Seats

The OTECO premium stem guided valve and seat features an extra wide metal to metal seal on the valve flange. The serrated upper surface on the valve gives a longer non-breathing seal between valve body and insert while the rigid seat cross-arms give greater strength and positive sealing. The strong, thick, valve knock off nut holds the insert tightly reducing flex and breathing which lessens the chance of foreign matter getting between valve and insert. The premium stem guided valve and seat provide good value, are economically priced, and weigh less than many competitors valve and seat.



Pump Liners

OTECO premium liners combine the strength of a forged steel outer shell with the abrasion and corrosion resistance of a high chromium iron inner sleeve. These liners feature a centrifugally cast high chrome iron sleeve which is machined and heat treated to a minimum uniform bore hardness of 62 Rc. Each liner is machined to close tolerances with the inside diameter of these premium liners honed to a mirrorlike finish for smooth even wear. OTECO induction hardened liners offer economy in a liner that is made for normal to mildly corrosive mud conditions. These liners are hardened and heat treated under strict quality control to a minimum of 60 Rc hardness and a depth of .125 inches.

Piston Rods and other Accessories

In addition to the above products, OTECO also offers a full complement of premium and induction hardened piston rods, crosshead extension rods, valve and cylinder head gaskets, and rod clamps.