400 series LIFTPrime high-efficiency E6000 pump

Improve well economics

Applications

- Conventional oil fields
- Unconventional resource plays
- Wells with extended flow-rate range
- Abrasive applications
- Viscous and heavy oil applications
- SAGD applications

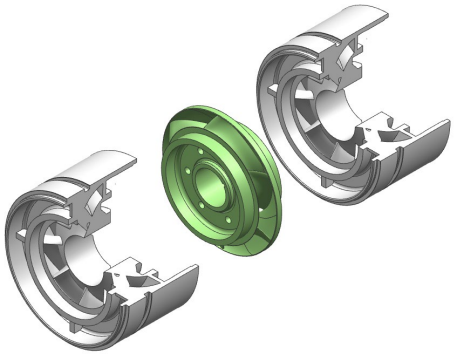
Features and Benefits

- Highest efficiency in the market
- Higher efficiency range
  - Increase ESP system efficiency
  - Minimize power consumption across the operation range
- Unmatched operating range
  - Great flexibility to well production dynamic
- Improved reliability
  - The highest shaft torque rating
  - Modular design reduces the stress on the shaft
  - Reduce well downtime and deferred oil production
  - Reduce intervention cost
  - Reduction in stage thrust
  - Improve gas handling

The 400 series LIFTPrime™ high-efficiency E6000 pump uses advanced hydraulic design and manufacturing technology to achieve the highest efficiency across the widest flow range (1,000 to 8,000 bpd) in both conventional and unconventional fields.

The superior hydraulic design ensures the pump has a constant steep rising head curve across the recommended operation range. This allows the pump to respond to large pressures and flow rates which is essential to unstable downhole inflow patterns.

The E6000 pump is designed to operate in the most challenging applications. Offer the highest efficiency in the market 75%. Also, highest efficiency range above 64% from 4200 to 7650BFPD. Hydraulic thrust is absorbed inside of the pump instead of transferring thrust to the seal section through the shaft. This improves the reliability of the seal section and reduces the radial component stress on the shaft which reduces risk of shaft failure.



400 series LIFTPrime E6000 pump specifications	
OD, in. (mm)	4.00 (101.6)
Standard stage alloy	Ni-Resist™
Stage geometry	Mixed-flow
Flow range, bbl/d at 60 Hz m^3d at (50Hz)	1000 to 800 (130 to 1050)
Head per stage at BEP, hp at 60 Hz (KW at 50 HZ)	23 (3.5)
Power per stage at BEP, hp at 60 Hz (KW at 50 HZ)	1.53 (0.9)
Efficiency at best efficiency point (BEP)	76%
Burst pressure, psi (kPa)	5,627 (38,797)
Standard housing alloys	Carbon steel
Standard shaft alloys	Inconel®
Shaft diameter, in. (mm)	7/8 (22.22)
Abrasion resistant options	SSD, SXD, CSHD, CG1
Radial and axial bearing material	Tungsten carbide
Shaft break-power limit (hp) at 60 Hz	550
Minimum casing size (in.)	5.5

Performance curve