

400 series LIFTPrime high-efficiency E1000 pump

Improve well economics

Applications

- Wells with power supply constrain
- Wells with extended flow-rate range
- Unconventional oil and gas fields
- Conventional oil and gas fields
- Abrasive applications

Features and benefits

- Highest efficiency
 - Increase ESP system efficiency
 - Minimize power consumption across the operation range
- Highest lifting/ft
 - Shortened ESP string
 - Greater well accessibility
- Unmatched operating range
 - Great flexibility to well production dynamic
- Improved reliability
 - Reduce well downtime and deferred oil production
 - Reduce intervention cost
 - Reduce reservoir prolusion during intervention

Innovative pump design

The **400 series LIFTPrime high-efficiency E1000 pump** uses the most advanced hydraulic design and manufacturing technology to achieve the highest efficiency across the widest flow range (250 bpd to 1,650 bpd), reshaping the well economics in both conventional and unconventional fields.

The superior hydraulic design not only enables the highest efficiency, it also ensures the pump has a constantly steep rising head curve across the

recommended operation range. This allows the pump to have greater pressure / flow-rate response, and such feature is essential to unstable downhole inflow patterns.

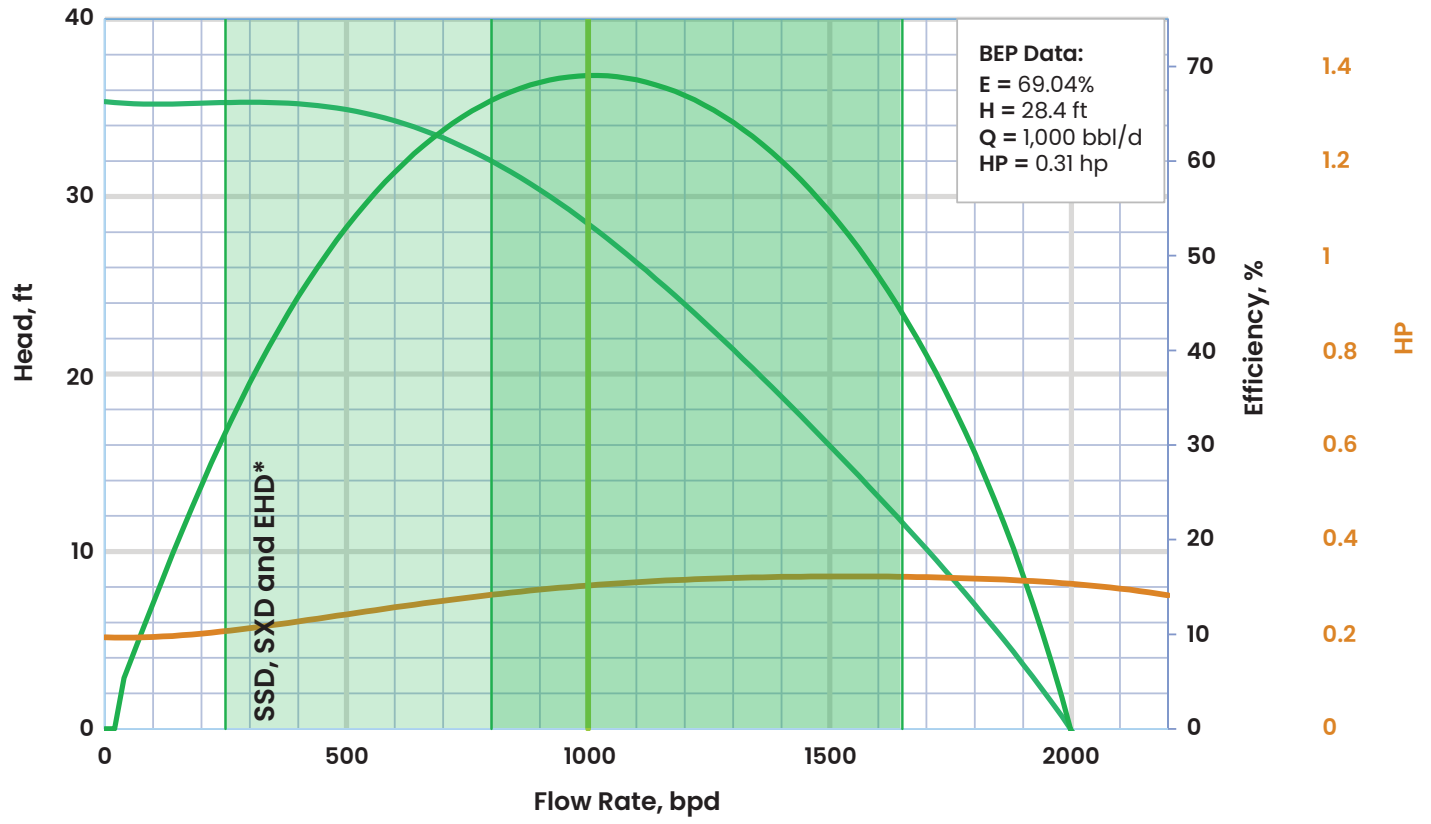
The E1000 pump is rigorously designed and tested for the most challenging harsh applications with wide abrasion resistance options including the newest Extreme Harsh Duty (EHD) AR module. The EHD design has been proven to significantly increase pump runlife in extreme abrasive applications.

400 series LIFTPrime E1000 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 [KW at 50 Hz]	800-1,650 [106-218]
Flow range (SSD, SXD, EHD), bbl/d at 60 Hz [m ³ /d at 50 Hz]	250-1,650 [33-218]
Head per stage at BEP, ft at 60 Hz [m at 50 Hz]	28.4 [6.0]
Power per stage at BEP, hp at 60 Hz [KW at 50 Hz]	0.31 [0.13]
Efficiency at best efficiency point (BEP), %	69.04
Burst pressure, psi [kPa]	5,627 [38,797]
Standard housing alloys	Carbon steel
Standard shaft alloys	Inconel®
Shaft diameter, in [mm]	0.688 [17.46]
Abrasion resistant options	SSD, SXD, EHD
Radial and axial bearing material	Tungsten carbide

400 series LIFTPrime E1000 pump performance curve

1 stage, RPM=3,500, SG=1.0



*SSD, SXD and EHD will draw more HP

