L43000N high-efficiency REDA ESP pump
Improve lift, efficiency, and reliability in wells

Target production rate:
36,000 to 54,000 bbl/d at 60 Hz
(4,770 to 7,155 m³/d at 50 Hz)

Casing diameter:
9 5/8 in or larger

Benefits
■ Reduces power consumption with high-efficiency design
■ Improves reliability and extends system run life in abrasive applications

Features
■ Application flexibility to accommodate production rates of 36,000 to 54,000 bbl/d at 60 Hz (4,770 to 7,155 m³/d at 50 Hz)
■ Compression pump with factory shimming
■ Optimized hydraulic designs based on computational fluid dynamics (CFD)
■ High-strength MONEL® and INCONEL® shafts
■ Patented abrasion-resistant bearing configuration for reliability in sandy wells and other demanding applications
■ Compliant-mounted radial bearing systems that minimize vibration and wear
■ Availability of corrosion-resistant coatings and stainless steel construction for wells with H₂S, CO₂, or other corrosive elements
■ Availability of thermally compensated pumps that enable high-temperature operations

L43000N Pump Specifications

<table>
<thead>
<tr>
<th>Best efficiency point (BEP)</th>
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<tbody>
<tr>
<td>Flow rate, bbl/d at 60 Hz [m³/d at 50 Hz]</td>
<td>45,830 [6,072.5]</td>
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<tr>
<td>Head per stage, ft at 60 Hz [m at 50 Hz]</td>
<td>70.90 [15.01]</td>
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<tr>
<td>Required power, hp at 60 Hz [hp at 50 Hz]</td>
<td>33.25 [19.25]</td>
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<tr>
<td>Efficiency, %</td>
<td>71.97</td>
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General

- OD, in [mm]: 7.25 [184]
- Stage geometry: Mixed flow
- Stage metallurgy: Ni-Resist®, 5530 alloy
- Housing metallurgy: Carbon steel, Redalloy® premium alloy
- Shaft diameter, in [mm]: 1.5 [38]
- Shaft material, rating at 60 Hz, hp: INCONEL 625, 1,600
- Shaft radial support options: ES, ARZ, FBH
- Pump construction: Enhanced compression design, factory-shimmed

1 Enhanced stability option with tungsten carbide bushing.
2 ARZ abrasion-resistant zirconia bearing, tungsten carbide bushing, and sleeve.
3 Full bearing housing.

All specifications are subject to change without notice.

Additional information

Factory-shimmed high-strength shafts increase pump reliability. Factory shimming enables precise shaft setting to match REDA* Maximus* install-ready ESP motors and protectors and reduce installation time by at least 60%.

The patented ARZ abrasion-resistant tungsten carbide bearings and compression-ring construction provide advanced radial stability even in the most challenging conditions, minimizing vibration, ensuring smooth operation, and reducing wear. The compliant-mounted bearings repeatedly show less wear in tests and actual field performance over a wide range of well conditions as compared with alternative bearing materials.