**L16000N** high-efficiency REDA ESP pump

Improve lift, efficiency, and reliability in wells

**Target production rate:**
11,000 to 20,000 bbl/d at 60 Hz
[1,458 to 2,650 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 11,000 to 20,000 bbl/d at 60 Hz [1,458 to 2,650 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

**L16000N 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>15,670 [2,076]</td>
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<tr>
<td>Head per stage, ft at 60 Hz [m at 50 Hz]</td>
<td>93.96 [19.89]</td>
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<tr>
<td>Required power, hp at 60 Hz [hp at 50 Hz]</td>
<td>14.13 [8.18]</td>
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<tr>
<td>Efficiency, %</td>
<td>76.76</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] | 1.187 [30.1]
- Shaft material, rating at 60 Hz, hp | INCONEL 625, 1,019
- Shaft radial support options | ES,† ARZ,‡ FBH§
- Pump construction | Enhanced compression design, factory-shimmed

† Enhanced stability option with tungsten carbide bushing.
‡ ARZ abrasion-resistant zirconia bearing, tungsten carbide bushing, and sleeve.
§ 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.