Target production rate: 1,200 to 2,400 bbl/d at 60 Hz [159 to 318 m³/d at 50 Hz]

Casing diameter: 4½ 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 from 1,200 to 2,400 bbl/d at 60 Hz [159 to 318 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

DN1800 high-efficiency REDA ESP pump

Improve lift, efficiency, and reliability in oil wells

![Graph showing performance curves for DN1800 pump]

DN1800 pump curve for 60 Hz with sg = 1.

DN1800 Pump Specifications

<table>
<thead>
<tr>
<th>Best efficiency point (BEP)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate, bbl/d at 60 Hz [m³/d at 50 Hz]</td>
<td>1,860 [246.4]</td>
<td></td>
</tr>
<tr>
<td>Head per stage, ft at 60 Hz [m at 50 Hz]</td>
<td>18.17 [3.85]</td>
<td></td>
</tr>
<tr>
<td>Required power, hp at 60 Hz [hp at 50 Hz]</td>
<td>0.33 [0.19]</td>
<td></td>
</tr>
<tr>
<td>Efficiency, %</td>
<td>74.58</td>
<td></td>
</tr>
</tbody>
</table>

General
- OD, in [mm] 3.87 [98.3]
- Stage geometry Mixed flow
- Stage metallurgy Ni-Resist®, 5530 alloy
- Housing metallurgy Carbon steel, Redalloy* premium alloy
- Shaft diameter, in [mm] 0.68 [17]
- Shaft material and rating at 60 Hz, hp INCONEL 718, 240
- Shaft radial support options ES, ARZ, FBH
- Pump construction Enhanced compression design, factory-shimmed

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.