**AN550** high-efficiency REDA ESP pump

Improve lift, efficiency, and reliability in oil wells

- **Target production rate:** 400 to 700 bbl/d at 60 Hz
  [53 to 93 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 400 to 700 bbl/d at 60 Hz [53 to 93 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

**AN550 Pump Specifications**

**Best efficiency point (BEP)**
- Flow rate, bbl/d at 60 Hz [m³/d at 50 Hz] 610 [80.7]
- Head per stage, ft at 60 Hz [m at 50 Hz] 13.45 [2.85]
- Required power, hp at 60 Hz [hp at 50 Hz] 0.13 [0.07]
- Efficiency, % 47.94

**General**
- OD, in (mm) 3.38 [85.8]
- Stage geometry Radial flow
- Stage metallurgy Ni-Resist®, 5530 alloy
- Housing metallurgy Carbon steel, Redalloy® high-nickel alloy
- Shaft diameter, in (mm) 0.62 [15.7]
- Shaft material and rating at 60 Hz, hp 180 (INCONEL 718)
- Shaft radial support options ES,† ARZ‡
- Pump construction Enhanced compression design, factory-shimmed

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

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 reduced 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.

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