

## JN16000 high-efficiency REDA ESP pump

Improve lift, efficiency, and reliability in oil wells



**Target production rate:**  
12,800 to 19,500 bbl/d at 60 Hz  
[1,696 to 2,584 m<sup>3</sup>/d at 50 Hz]



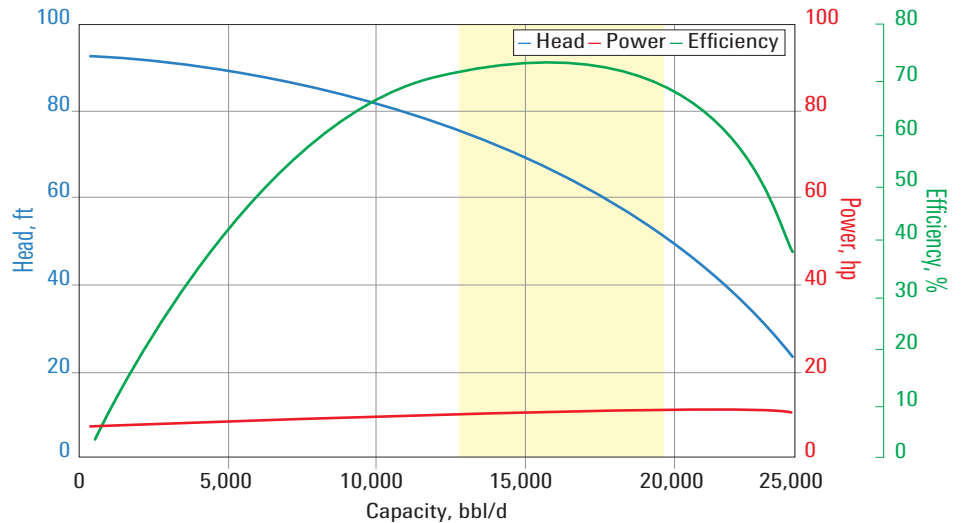
**Casing diameter:**  
8 5/8 in or larger

### 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 12,800 to 19,500 bbl/d at 60 Hz [1,696 to 2,584 m<sup>3</sup>/d at 50 Hz]
- Compression pump with factory shimming
- Optimized hydraulic designs based on computational fluid dynamics (CFD)
- High-strength MONEL<sup>®</sup> and INCONEL<sup>®</sup> 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 H<sub>2</sub>S, CO<sub>2</sub>, or other corrosive elements
- Availability of thermally compensated pumps that enable high-temperature operations



JN16000 pump curve for 60 Hz with  $sg = 1$ .

### JN16000 Pump Specifications

#### Best efficiency point (BEP)

Flow rate, bbl/d at 60 Hz [m <sup>3</sup> /d at 50 Hz]	16,010 [2,121.3]
Head per stage, ft at 60 Hz [m at 50 Hz]	65.15 [13.79]
Required power, hp at 60 Hz [hp at 50 Hz]	10.67 [6.18]
Efficiency, %	72.01

#### General

OD, in [mm]	6.75 [171.4]
Stage geometry	Mixed flow
Stage metallurgy	Ni-Resist <sup>®</sup> , 5530 alloy
Housing metallurgy	Carbon steel, Redalloy* premium alloy
Shaft diameter, in [mm]	1.18 [30.0]
Shaft material; rating at 60 Hz, hp	INCONEL 718; 1,223
Shaft radial support options	ES, <sup>†</sup> ARZ, <sup>‡</sup> FBH <sup>§</sup>
Pump construction	Enhanced compression design, factory-shimmed

<sup>†</sup> Enhanced stability option with tungsten carbide bushing.

<sup>‡</sup> ARZ abrasion-resistant zirconia bearing, tungsten carbide bushing, and sleeve.

<sup>§</sup> 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<sup>®</sup> Maximus<sup>®</sup> 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.