

## S2000N ESP pump

Improve lift, efficiency, and reliability in oil wells

**Casing diameter:**  
7 in or larger

**Target production rate:**  
200–2,500 bbl/d at 60 Hz  
[106–305 m<sup>3</sup>/d at 50 Hz]

### Applications

- Conventional offshore and land wells
- Abrasive or sandy production
- Wells producing high-viscosity oil

### How it improves wells

Extends ESP performance and lifetime

### How it works

The S2000N pump has mixed-flow geometry and a very wide operating range including low-flow conditions. Its modified compression design reduces risk of sand erosion and ensures a smoother flow transition at a key area of flow passage. This eliminates the performance losses common for conventional pumps in conditions that promote sand production.

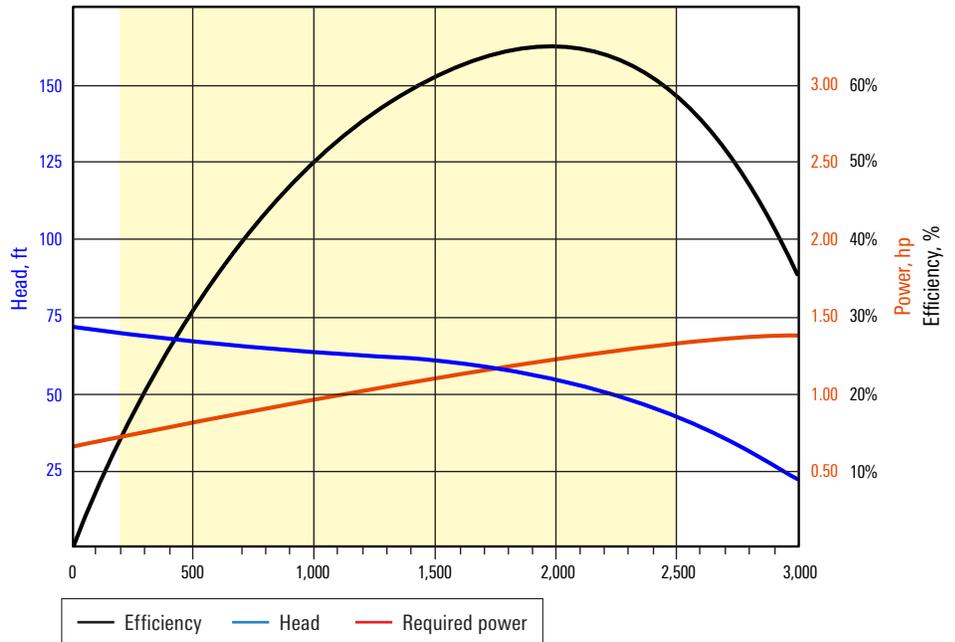
### What it replaces

Conventional ESP pumps

### Additional information

From simplifying installation to meeting temperature and viscosity demands, Schlumberger has the right ESP for conventional, unconventional, high-temperature, intervention-constrained, and offshore requirements. Maximize production, increase run life, and ultimately reduce system life cycle costs with a selection of fit-for-purpose ESP systems.

Access to Schlumberger engineering expertise further optimizes ESP well performance. Conveniently located assembly, repair, and testing centers provide quick delivery and assistance in all major oil and gas operating areas. Artificial Lift Surveillance Centers monitor alarms 24/7/365 for rapid diagnostics, recommendations, and troubleshooting.



S2000N pump performance curve at 60 Hz with  $sg=1$ .

### S2000N Pump Specifications

#### Best efficiency point (BEP)

|                             |       |
|-----------------------------|-------|
| Flow rate, bbl/d at 60 Hz   | 1,975 |
| Head per stage, ft at 60 Hz | 54.35 |
| Required power, hp          | 1.23  |
| Efficiency, %               | 65.10 |

#### General

|  |  |
|--|--|
| OD, in [mm]  | 5.38 [136]                                   |
| Stage geometry   | Mixed flow                                   |
| Recommended operating range, bbl/d at 60 Hz [m <sup>3</sup> /d at 50 Hz] | 200–2,500 [106–305]                          |
| Burst pressure, psi [kPa]  | 6,000 [41,368]                               |
| Stage metallurgy   | Ni-Resist®                                   |
| Housing metallurgy   | Carbon steel or Redalloy* premium alloy      |
| Shaft diameter, in [mm]  | 0.87 [22]                                    |
| Shaft material; rating at 60 Hz, hp                                      | INCONEL® 718; 492                            |
| Shaft radial support option  | Tungsten carbide bushing and sleeve          |
| Radial bearing material  | Tungsten carbide                             |
| Pump construction  | Modified compression design, factory shimmed |