UNBRIDLED ESP Systems
Get the most value from your wells with purpose-built solutions

APPLICATIONS
- Unconventional and conventional wells
- Wells with higher production rates
- Deeper wells

BENEFITS
- Operates in standard, harsh, and extreme environments
- Optimizes production
- Enhances efficiency and reliability
- **Lowers total cost of ownership**

**MAXIMIZING THE VALUE OF YOUR PRODUCING ASSETS IS A DAILY BALANCING ACT BETWEEN COSTS AND PRODUCTION RATES. YOU NEED A PARTNER THAT UNDERSTANDS YOUR SPECIFIC BUSINESS NEEDS AND CAN HELP YOU FIND THAT SWEET SPOT.**

Apergy's purpose-built UNBRIDLED® electrical submersible pumping (ESP) systems, combined with the industry's most responsive, experienced service teams, can help you find the right balance between cost and production rates to optimize your total cost of ownership. UNBRIDLED ESP Systems are customizable to your wells' specific downhole conditions and the operating parameters required to meet your business goals.

UNBRIDLED ESP Systems are ideally suited for unconventional oil wells where high production rates are typical in the early months of a well's life. The fully integrated system— including the downhole pump, gas handling intakes, protector, and motor as well as the cable and surface controls—works seamlessly to maximize system efficiency and reliability, all at optimal operating costs.
At the heart of an UNBRIDLED ESP System is the pump. The BLACKGOLD™ series radial and mixed-flow pumps are purpose-built for conventional applications with production rates from 80 BPD to 14,000 BPD. The GRINDSTONE™ series abrasion-resistant pumps are designed to perform in harsh downhole environments at production rates from 200 BPD to 10,500 BPD. Enhanced radial bearing and thrust support make the GRINDSTONE pumps ideal for unconventional wells with a rapid production decline curve, enhanced oil recovery projects, or wells with dynamic production conditions.

WHIRLAWAY™ gas handling intakes prevent natural gas from entering the pump and causing gas locking conditions. Gas separating and gas avoiding solutions prevent gas interference to improve ESP system up time and reliability.

VIGIL™ protectors maintain the electrical and mechanical integrity of the downhole motor—preventing the ingress of well fluids into the motor and allowing for motor oil expansion as well conditions change. The modular design of VIGIL protectors provides the required flexibility and redundancy to extend the longevity of UNBRIDLED ESP Systems.

The AFFIRMED™ motor is proven technology that offers the horsepower you need with design features that extend system run life and efficiency. The motor is rated to 216 HP (400 series) / 450 HP (500 series) and up to 325°F (163°C) bottomhole temperature at full load. Connected by a reliable insulated tape-in motor connector, AFFIRMED motors deliver increased production and overload protection without sacrificing run life. CAVALCADE™ power cable is available in multiple configurations and sizes and, even in challenging downhole conditions, provides reliable power at low or high power loads.

The SMARTEN™ variable speed drive (VSD) provides the flexibility required to optimize operations and protect the ESP system as downhole conditions change. The SMARTEN VSD is the industry’s only control system that operates the most widely used forms of artificial lift and offers software and hardware features to effectively manage production rates and to extend downhole equipment run life—all while keeping field personnel safe.

LOOKOUT™ monitoring services, powered by Apergy’s proven XSPOC™ data collection and well management system, is a 24/7 life-of-well service that connects you to your wells so you can manage your asset’s operations and economics. Data from sensors in the well, on the surface, and in facilities is aggregated to give you deep insight into the status and/or performance of your artificial lift systems. Optimization engineers use this real-time production data to monitor ESP system operations to optimize production and to address problems before they become failures.

For more information about how Apergy UNBRIDLED ESP Systems can address your unique production challenges, contact your local Apergy representative or visit apergyals.com.