

# PROGRESSIVE CAVITY

## ELECTRIC SUBMERSIBLE PUMP SYSTEM

Designed specifically for coalbed methane and shale gas applications, Franklin's progressive cavity pump and CBM+ motor are designed to meet the harshest conditions, providing the most dependable system available in the industry.





## PROGRESSIVE PUMPING SYSTEM SOLUTION

Franklin Electric's newest system solution combines years of tested technology to create a packaged system designed specifically for coalbed methane and shale gas applications, as well as oil stripper oil wells. Traditionally, progressive cavity pumps are known to operate in the harshest conditions. Now as a Franklin system, together the progressive cavity pump and CBM+ motor provide the confidence needed to know that you have the most robust, dependable system available in the industry.

### SYSTEM BENEFITS

#### Low System Maintenance

- Less site visits
- Little to no costly chemicals that are associated with other forms of lift
- Remote system control
- Few moving parts

#### High Production Rates

- Low down time
- Multiple operation modes
- Gas lock minimization

#### Peace of Mind

- Leading edge protection features
- Advanced motor and pump engineering

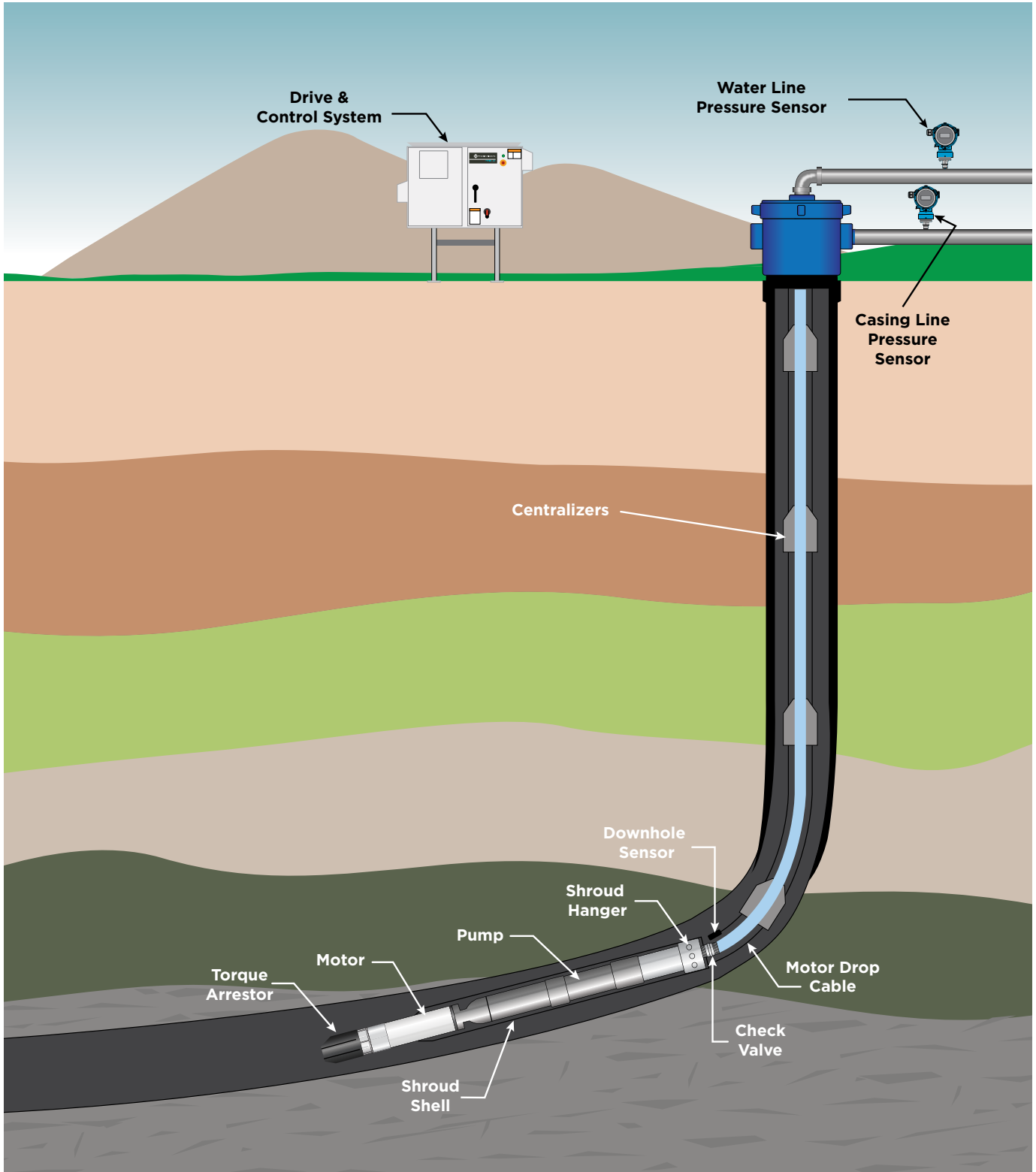
#### Low Environmental Impact

- Small footprint
- Low system noise
- No rotating seal at surface



# PROGRESSIVE PUMPING SYSTEM SOLUTION

## SYSTEM OVERVIEW





## PROGRESSIVE PUMPING SYSTEM SOLUTION

### ESPCP PUMP

- Franklin Electric exclusive direct drive system (no gear box)
- High head design allows for operation in depths to 3300 ft / 1000 meters
- Abrasive-resistant progressive cavity technology
- Stainless steel rotor is chrome plated for extra abrasion resistance
- Franklin Electric exclusive spring ball check valve.

### CBM+ MOTOR

- Exclusive Sand Fighter™ sealing system
- Increased bearing capacity
- Corrosion-resistant construction
- Hardened stainless steel splined shaft
- Anti-track, self-healing resin system repairs minor shorts
- Hermetically-sealed windings
- Water-lubricated bearings
- Filter check valve
- Kingsbury-type thrust bearing rated for 5-10 hp - 1,500 lbs. downthrust
- Kingsbury-type thrust bearing rated for 15 hp - 3,500 lbs. downthrust
- Pressure-equalizing diaphragm
- Removable Water-Bloc™ lead
- NEMA pump mounting dimensions
- Reinforced diaphragm housing
- Diaphragm filter shield



## PROGRESSIVE PUMPING SYSTEM SOLUTION

### FLUIDWISE™ DRIVE AND CONTROL

- Pre-programmed for easy set up and installation
- Integrated touchscreen graphic user interface
- Three running modes: speed control, water level control, and flow rate control
- Data logging up to once/second with the capability of downloading data into a Microsoft excel file
- Franklin Electric exclusive pump protection algorithms
- Underload and overload protection
- Dry run protection
- Reverse start
- Connect to the system wirelessly through WiFi to control the webpage
- Easy access terminals
- Built-in surge arrester
- Output load reactor
- Input line filter
- External emergency stop push button
- 450W for external heat tape
- No autotune needed
- Weatherproof NEMA 3R-rated enclosure with cable knockouts
- Optional IS Barriers





# PROGRESSIVE PUMPING SYSTEM SOLUTION

## FEATURES & SPECIFICATIONS

Set system parameters and get realtime data globally.

Real time data display with interactive capability



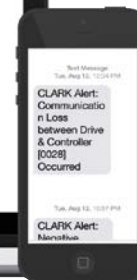
Ease of operation at site with door mounted HMI



Data logging provides critical system performance history



Text alerts for peace of mind





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