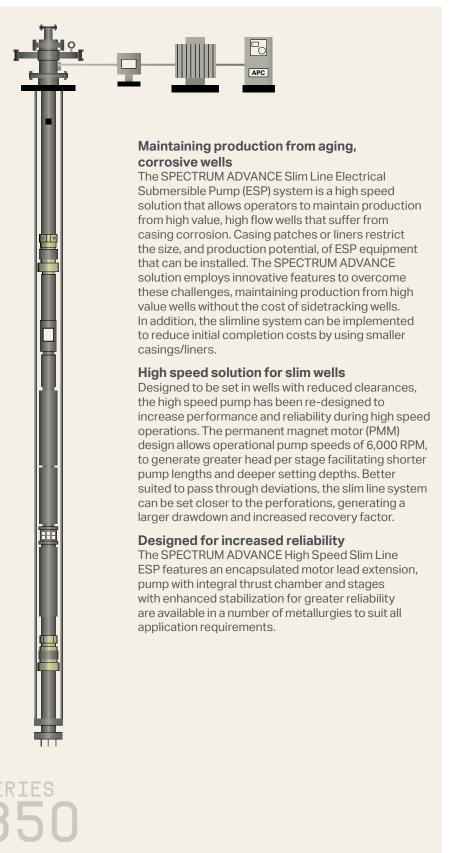
SPECTRUM Advance

High Speed Slim Line ESP Solution



APPLICATIONS

- Designed to be set in 4.5" and 5" casing
- High fluid rates
- Highly deviated, long reach wells
- Harsh environments
- Deep set pumps
- Alternatively deployed ESP

BENEFITS

- High flow rate from slim line pump

 unique in industry
- Avoid expensive remedial well work
- Maintain production targets from high value, aging wells
- High lift per stage enables deep setting depths, short strings
- Slim profile passes through high dog legs
- High pump efficiency
- Utilizes standard wellhead
- Prevents damage to casing from corrosive well fluids

FEATURES

- 3.5" OD
- 6,000 RPM operation
- PM motor with high power density
- 5,000 BPD pump
- Encapsulated power delivery system
- Integral ground fault tolerant gauge (optional)

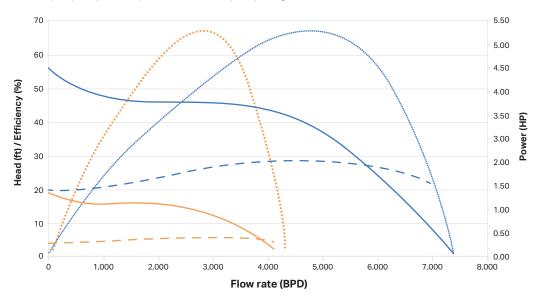


SPECTRUM Advance

High Speed Slim Line ESP Solution

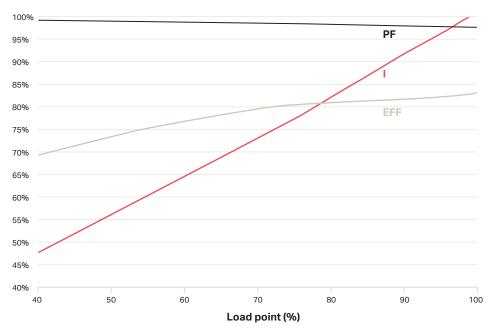
WA 2700 pump performance 3,500 RPM vs. 6,000 RPM

High speed operation generates greater lift per stage allowing for deeper pump set depths and shorter pump lengths.



350 PM motor performance curve @ 6,000 rpm

Permanent magnet motor design permits greater power factor and efficiency from shorter, slimmer units with higher power density



Pump	338 series 5,000 BPD, AR coated
Motor	350 series permanent magnet motor, 170HP
Gauge	Integral, 9 channel, ground fault tolerant (as option)
Protector	Shaft less protector for isolation, equalization & expansion
Thrust chamber	High temp, high load thrust bearing
Power delivery system	Encapsulated I-Lead system, #4 AWG 5kV

