

Rigless ESP System

Vertechs Rigless ESP system utilizes wireline but requires no rig or hoisting equipment to replace failed or sub-optimal ESP system. This significantly reduces the duration of suspended production and workover cost over the more traditional methods of ESP replacement.

ADVANTAGES

- A rig or hoisting equipment is eliminated when replacing failed or sub-optimal ESP
- Reduce operational time, labor cost and risk exposure
- Minimize well down time & maximize production time
- Protect reservoir from fluid contamination

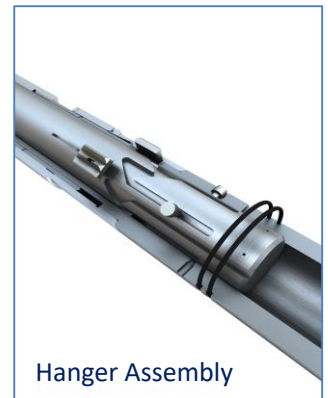
CORE COMPONENTS

Wet Connector System

- Eccentric design, maximizing flow path
- Locking assembly prevents relative movement, avoids damaging the wet connector and “stab-in” section

Hanger Assembly

- Supports the system weight, prevents axial and radial movement of the central string
- Two setting methods: GS jarring down & pressure latching



Hanger Assembly



Eccentric Wet Connector

System Specifications			
Item	Unit	7" system	5½" system
Temperature rating	°F/°C	302 / 150	302 / 150
Voltage rating	V	5,000	5,000
Current rating	A	125	125
Maximum ESP/Motor size (OD)	inch	5.62	4.50
Maximum Horsepower	HP	1,000	500
Minimum production casing size	ppf	9"(53.5#)	7"(39#)
Required tubing size	ppf	26 / 29	20
Max OD of penetrator can	inch	8.5	6.5
Max ID of retrievable component	inch	6.047	4.64
Maximum cable size	AWG	AWG 2#(Flat)	AWG 4#(Flat)
Maximum production rate	bpd	20,000	7,000
Maximum Pump setting depth	ft	10,000	10,000
Thru-bore passage (ESP removed)	inch	3.15	2.15
Metallurgy		13CR、L80	13CR、L80
Maximum well deviation	deg	45	45
Max content rate of sand/solid	%	0.2	0.2



System Simulation Deployed