

Mission Blak-JAK HydrA-LIGN Piston System



Convert your existing rod clamp system into a reduced risk environment.

National Oilwell Varco's Mission Blak-JAK HydrA-LIGN™ rod assembly is designed to reduce operational risk exposure and improve risk environments during change-outs of high use fluid end expendable parts. Additional value to operators and contractors is realized through design features that allow self-aligning capabilities between the pump liner and piston. Run times of expendables will be positively affected and pump down time reduced.

Reduced Risk environments

The Blak-JAK HydrA-LIGN rod assembly consists of three major components:

1. High grade stainless steel piston rod
2. High grade stainless steel hydraulic sub rod
3. Nickel Boron hard surface coated cross head extension rod

The hydraulic sub rod assembly is manufactured from high grade stainless steel and connects the piston rod and the cross head extension rod via high strength stainless steel pins. No heavy hammers or special tools are required. The only tool requirement is a hydraulic porta-power hand pump equipped with an external gauge.

Piston change-out times are reduced to less than 5 minutes.

Features and Benefits

- High grade stainless steel piston rod for strength
- High grade 17-4 heat treated stainless steel hydraulic sub rod to resist corrosion and strength
- Cross head extension rod with nickel boron coated wear surfaces for extended run times and corrosion resistance
- Internal design features to the sub rod allow up to .060 in. self-alignment capabilities in any single direction for up to .120 in. total self-aligning capabilities
- Removable piston/liner coolant tube is attached to piston rod pin (not shown in picture)