

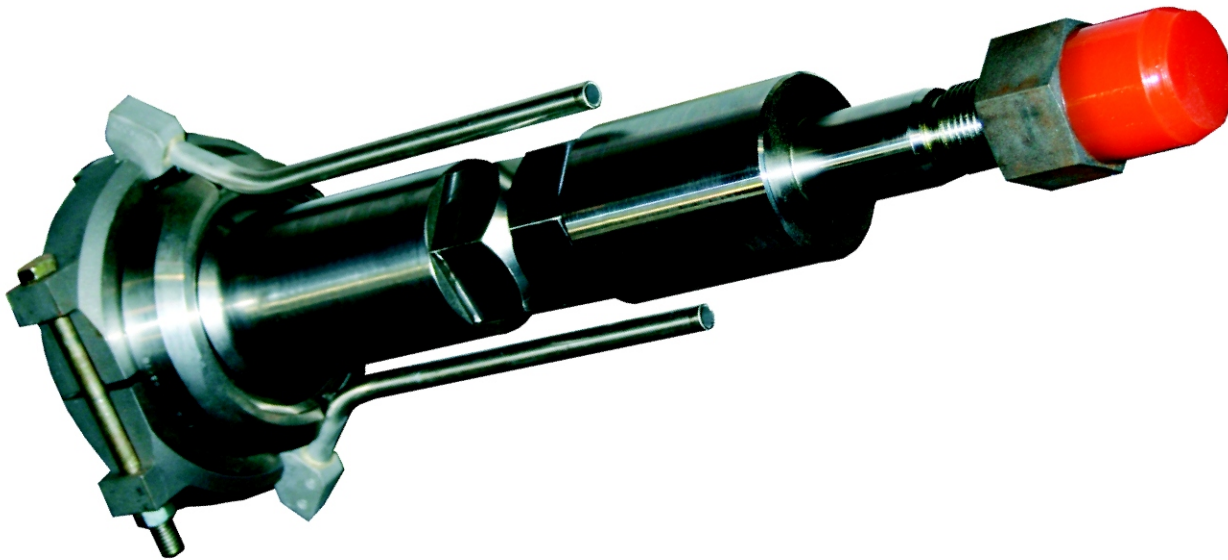
Mission™ Self-Aligning Piston Rod

**A UNIQUE SOLUTION FOR INCREASED PISTON AND LINER PERFORMANCE.
DESIGNED ESPECIALLY FOR SINGLE ACTING PUMPS.**

National Oilwell Varco's Self-Aligning Piston Rod Assembly resolves misalignment issues between the crosshead and fluid end of the mud pump. In addition, it delivers the following benefits:

- Reduced piston side loading for increased piston run times
- Increases liner life on ceramic as well as chrome liners
- Reduced down time due to less frequent piston and liner replacement

For additional information, contact your National Oilwell Varco representative.



Mission™ Self-Aligning Piston Rod

FEATURES AND BENEFITS:

Design Benefits

Major components are manufactured from corrosion resistant 17-4 stainless steel Alloy steel piston rod for increased strength
Unique polyurethane flex joint design allows for up to 0.090 side load displacement
Centering of piston reduces compound extrusion, resulting in extended piston life

Added Value

Dual cooling tubes deliver liner coolant behind piston to carry away heat, extending piston life
Piston rod can be manually rotated without requiring any clamp removal
Unique covered rod nut provides thread protection

Flexibility

National Oilwell Varco's self-aligning rod system can be ordered as an option for new mud pumps
Existing pumps can be easily retrofitted with Self-Aligning Rods without modification or special tools

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