

MISSION Self-Aligning Piston Rod



A unique solution for increased piston and liner performance. Designed especially for single acting pumps.

The MISSION™ 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 downtime due to less frequent piston and liner replacement

For additional information, contact your NOV representative.



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

- MISSION'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