



Rod Guides

Features

- High flow characteristics and superb wear protection for your sucker rods, couplings, and production tubing.
- Maximum service life from your sucker rod guides because they have been designed to stay in the hole, on the rod, and perform longer.
- Longer wear because of their high resistance to damage from impact and shock loading.
- A full range of sizes to fit every rod size, tubing size, and down hole pumping condition.
- Pre-installed on your sucker rods in the best configuration for your particular and special needs, as only Norris can do.
- Backed by the only performance guarantee in the industry.



Standard Rod Guides Specifications		
Mechanical Property	Amodel	PPS
Tensile Strength	28,000 PSI	22,000 PSI
Elongation	2.1%	1.7%
Specific Gravity	1.46	1.60

Material Limitation	Temperature Oiling	Material					
		Hot Service	Sweet Service	Sour Service	Sand Service	Highwater	Brine
Amodel(PPA)	400F	x	x	x	x	x	x
PPS	400F	x	x	x	x		x
NFF	275F	x	x		x	x	
PPAU	250F		x	x		x	x

Shock load and impact calculations...erodible wear volume (EWV) ... guide surface configurations ... all have played critical roles in the development of Sucker Rod guides. Sucker Rod Guides have been individually designed to fit the appropriate rod size and tubing size for specific performance parameters. The fit is correct. The raw material from which it was manufactured is correct, and our manufacture stands behind the product.



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Rod Size	Material Type	Guide Recommendation	Guide Size
7/8" x 40" 3/4" Pin	Chrome Moly 4142	Maximum 3 sidewinder rod guides available	2" – 2-1/2"
1" x 40" 3/4" Pin	Chrome Moly 4142	Maximum 3 sidewinder rod guides available	2-1/2" – 3"
1" x 40" 7/8" Pin	Chrome Moly 4142	Maximum 3 sidewinder rod guides available	2-1/2" – 3"

Glide Rod Guides:

- Manufactured from ultra-high molecular weight polyethylene.
- Has the highest impact strength of all thermoplastics.
- Will not break regardless of environmental conditions.
- More tolerance to chemicals and saltwater.
- Suitable for any low temperature well applications. Not to exceed 150 degrees.

Glide Delivers:

- **Easy Installation-** Single Slot design allows quick attachment to the rod
- **Holding Power-** Guards against slippage on the rod
- **Low Coefficient of Friction-** Minimizes friction in reciprocating and rotating applications
- **Self Lubricating-** Excellent for high water cut wells
- **Abrasion Resistance-** Excellent with low friction under load
- **Low Friction-** Self-lubricating and high-slip properties also make it ideal for applications where bulk material flow enhancement is required, such as for lining chutes and hoppers, and forward strips and slide plates – all areas where sliding contact is encountered.
- **Corrosion and Chemical Resistance-** Features virtually zero water absorption, ensuring dimensional stability in aqueous environments, as well as, the resistance of fungus and bacterial growth. Even ice will not adhere to it, which is a critical concern for applications involving the movement of moist bulk materials in below freezing temperatures. The Glide is also resistant to most aggressive chemicals, including strong oxidizing agents. These characteristics make the Glide the chosen material for wear components and non-stick surfaces in material handling applications where a high degree of corrosion resistance is required.



Specifications

Sliding Surface	Sliding Speed	Coefficient of Friction	
		Static	Kinetic
On Itself	2 in./min	0.35	0.25
On chrome-plated steel	2 in./min	0.23	0.17
On stainless steel	2 in./min	0.25	0.14
On cold-rolled steel	2 in./min	0.31	0.18
On brass	2 in./min	0.21	0.15

a) Coefficient of friction tests conducted on Instrumentors Slip-Peel tester, Model SP-101A