

## Manufactured to the Highest Standards

US Rod rod guides are designed and manufactured using the most advanced designs and thermoplastics. Our guides will maximize the life of your most demanding applications including wells that are deviated or directional, high temperature, corrosive, high water cuts and solids.

### Bullet

The curved vane design distributes the load over a wider portion of the tubing and increases the ability of the rod string to rotate when used with a rod rotator. The 5-1/2" Bullet rod guide offers superior protection with greater EWW (Erodible Wear Volume) than the competition. Every Bullet has wear indicators molded into the guide for a quick visual confirmation of when it's time for replacement.

### Better Design, Better Defense, Better Flow

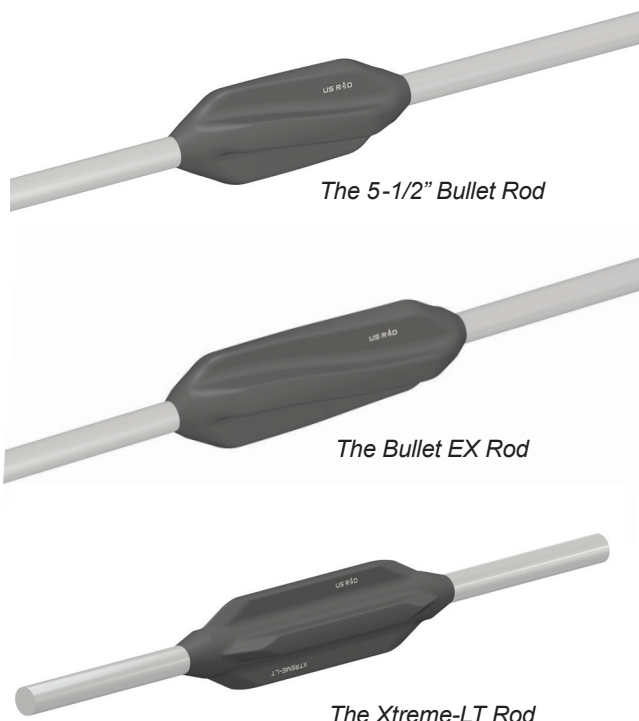
Every Bullet sucker rod guide has extended tapered ends that minimize fluid drag and lowers the chance of corrosion occurring on the leading edge during the downstroke.

### Bullet EX

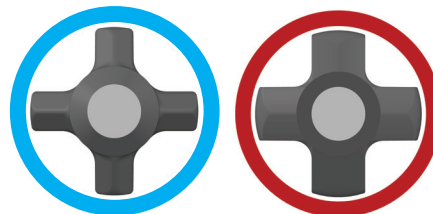
Two inches longer than the Bullet, the Bullet EX uses the same curved vane design for increased EWW. The longer design is recommended for wells greater than 10° inclination or a dogleg severity greater than 5°/100ft.

### Xtreme-LT Rod Guide

The Xtreme-LT is specifically designed to minimize guide induced corrosion failures and reduce fluid drag in high viscosity fluids. The narrow vanes allow for greater fluid bypass and the longer length stabilizes the flow before exiting the Xtreme-LT. The Xtreme-LT is recommended for corrosive environments and wells with viscous fluid.



### US ROD minimizes fluid drag



*Xtreme-LT's low turbulence, high flow design has significantly improved fluid bypass.*

Others



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# ROD GUIDES

Material	Base Polymer	Continuous Use Temperature	Uses
AU	PPAU	280°F (138°C)*	For use in wells with coated tubing products. No Glass fibers.
AF	PPAF	280°F (138°C)*	For use in wells with high water cuts and temperatures below 280F.
PPS	PPS	400°F (204°C)	For use in wells with high sideloads and/or high temperatures.
PPS-MAX	PPS	500°F (260°C)	For use in all conditions, gives superior performance over all other materials
PK-U	PK	200°F (94°C)	With better wear properties and a lower coefficient of friction than our AU material, for wells with coated tubing products. No glass fibers.
PK-F	PK-F	300°F (149°C)	Replacement for PPAF, for wells with high water cuts

## AU, PK-U

Specifically blended for US Rod, materials such as AU and PK-U do not contain reinforcing glass fibers. The removal of glass fibers lowers the abrasiveness of the plastic, but also increases the wear rate. These materials are best suited for wells with coated or lined tubing. PK-U has better wear properties than AU, but a lower maximum operating temperature.

## AF

AF is a proven thermoplastic that has been used in the oilfield since the early 1990's. Our blend uses 33% glass filled PPA and can be used in most applications. Because AF is hygroscopic (absorbs water), the maximum continuous use temperature is limited by the water cut of the well.

## PPS

PPS is another oilfield proven plastic. US Rod's specifically formulated blend has 40% glass fibers. It has excellent wear properties, is non-hygroscopic and superior chemical resistance. This gives PPS the ability to be used in almost any application below 400°F (204°C).

## PPS-Max

Designed for the Eagle Ford, PPS-MAX is formulated to give the best performance of any plastic in the oilfield. PPS-MAX is selected for use in the most demanding applications. From extreme temperatures to extreme sideloads, PPS-MAX combined with the proper design will protect your tubing string long after other plastics have failed.

## PK-F

PK-F is the newest plastic introduced to the oilfield. With 20% glass fiber reinforced, it gives better wear than AF and is non-hygroscopic.

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US Rod Manufacturing is the only privately owned and operated Rod Guide manufacturing plant in the USA.



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