

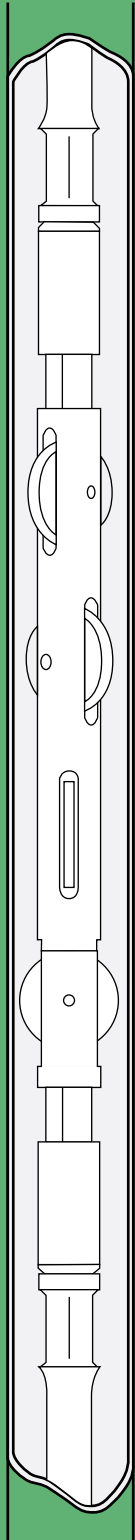
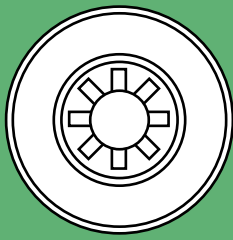


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# Wheeled Rod Guides®

OILFIELD IMPROVEMENTS WHEELED ROD GUIDES COUPLINGS HAVE  
WORKED SUCCESSFULLY IN THOUSANDS OF APPLICATIONS SINCE 1982

## **Wheeled Rod Guide® couplings reduce wear and prolong the life of sucker rods and tubing.**

They centralize the rod string in the tubing, and the rolling action of the wheels inside the tubing walls during stroking reduces friction and wear caused by the rods slapping or rubbing the tubing. With proper use of the Wheeled Rod Guide® couplings and effective chemical treatment programs, several operators have extended by an average of four times the operating periods between having to "pull and service" wells because of sucker rod or tubing wear.

## **Wheel angles are designed to centralize rod string in tubing.**

Wheels are set vertically and at 45-degree angles to each other, along the axis of the Wheeled Rod Guide® couplings body. This design assures the centralizing effect at all rod couplings where Wheeled Rod Guide® couplings are installed.

## **Wheels' rolling action reduces friction, rod load, and wear.**

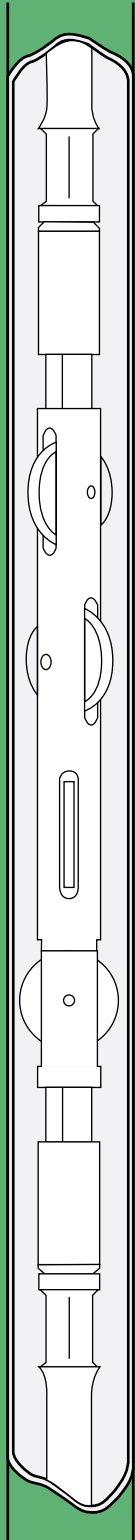
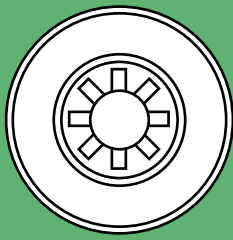
Installation of the wheels through slots in the Wheeled Rod Guide® couplings body assures that wheels will roll smoothly upon contact with the tubing wall. The rolling action of the wheels inside the tubing walls produces significantly less friction and wear than the rod string rubbing or slapping directly against the tubing walls.

## **Wheels "span" tubing couplings.**

The wheel size and placement in the Wheeled Rod Guide® couplings body are designed to assure smooth "spanning" of tubing couplings. This reduces substantially the shock effect which is characteristic with many rod coupling devices when they "bump" tubing shoulders at the couplings.

## **Wheel installation and design assures smooth rolling action and easy replacement.**

Wheels are set on stainless steel journals and roll pins to assure smooth rolling action. They are easily field-replaceable with just a common hammer and punch.



# Wheeled Rod Guides®

## APPLICATIONS AND SPECIFICATIONS

### Wheeled Rod Guides Should be Installed:

- + On the first two or three rods above the bottom hole pump.
- + Intermittently throughout the rod string where wear is indicated on the rods or tubing.
- + Where known hole deviation occurs or where past history shows signs of wear.
- + On the first two or three rods below the stuffing box.

### Standard Model

Model N. and Application (1)	Maximum Rod Load (2)	Dimensions			Weight
		A"	B"	C"	
2578P 2-7/8" Tubing 7/8" Rod	22,400	1.625	27	2.25	11 lbs. 5 oz.

### Stress Proof Model

Model N. and Application (1)	Maximum Rod Load (2)	Dimensions			Weight
		A"	B"	C"	
2078SP 2-3/8" Tubing 7/8" Rod	25,500	1.625	27	1.8	10 lbs.

#### (1) TEMPERATURE CAUTION

Standard Models are for applications in well bore temperatures up to 175°F (fitted with ultra high molecular weight polyethylene wheels). For service in higher temperatures, see special wheels listed and consult Oilfield Improvements, Inc.

#### (2) ROD LOAD CAUTION

Standard Models are for applications in well bore temperatures up to 175°F (fitted with ultra high molecular weight polyethylene wheels). For service in higher temperatures, see special wheels listed and consult Oilfield Improvements, Inc.

Standard models are designed for application within these listed rod load limits. For applications exceeding these limits, consult Oilfield Improvements, Inc. Oilfield Improvements, Inc does not express or imply any warranties of its Wheeled Rod Guide® couplings, either with regard to these rod load limits or in any other manner.

#### MATERIALS OF CONSTRUCTION

Wheeled Rod Guide® couplings body  
Standard Wheeled Rod Guide® coupling

bodies are machined from cold rolled steel of 78,000lb tensile strength.

Special metals – The above models are in stock for high stress rods (made from stress-proof steel) 125,000lb tensile strength.

#### WHEELS AND ROLL PINS

Wheels are set on stainless steel journals and roll pins. Standard wheels for applications up to 175°F are made of ultra-high molecular weight polyethylene.

#### SPECIAL WHEELS

Wheel materials and temperature applications:

Up to 175°F: UHMW  
175°F-350°F: Amodel  
350°F-450°F: Ryton

There is no extra charge for any material listed above.

450° and above: Steel-there is an increase in the cost of this wheel material.

#### REPLACEMENT KITS

Wheels, roll pins and journals are field-replaceable. Wheel kits are standard order items.



# Ultra-Flow®

**FIELD INSTALLED**

**SUCKER ROD CENTRALIZERS/PARAFFIN SCRAPPERS**

## **Advanced Design Characteristics:**

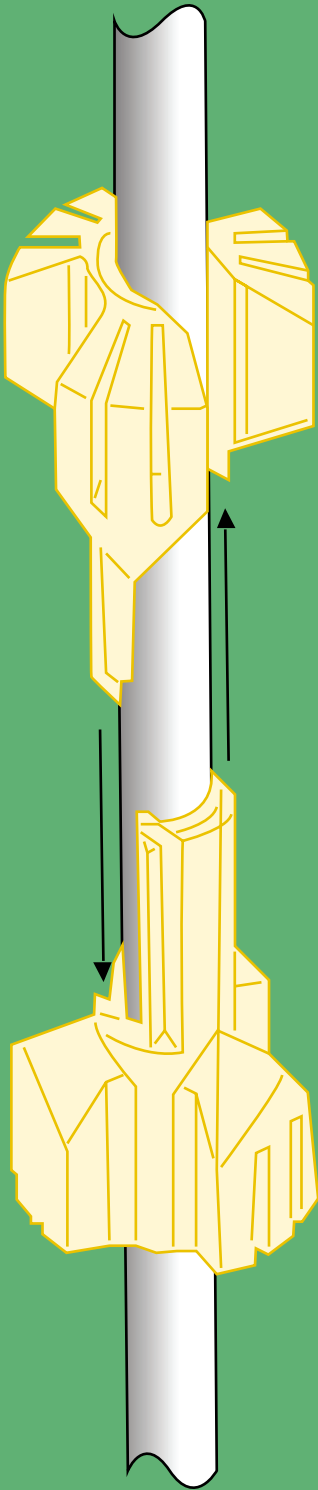
- + Full-circle Wiping of Tubing I.D. No rod-rotating required.
- + More Gripping Force on Rods, More Fluid Flow-by Volume than any other field-installed centralizer/scrapper available.
- + Longer Useful Life, Larger vanes and bearing surface than any other field-installed centralizer/scrapper available.
- + Positive Wear Indicator. When any one of the vanes on any centralizer / scrapper is worn away, it should be replaced promptly.
- + Amodel with Glass Fill.
- + Hydroplaning effect is superior with positive cavity displacement pumps.

**INSTALL THESE CENTRALIZERS/SCRAPPERS IN THE FIELD,  
QUICKLY AND EASY**



Installation Tools Available For Sucker Rod Diameters 3/4 in.,  
7/8 in., and 1 in.

For Tubing Diameters 2 3/8 in., 2 7/8 in. and 3 1/2



## Material and Service Applications

Base Material	AMODEL
Temperature (°F)	to 350°F
Hot Oil	Yes
Sweet Crude	Yes
Sour Crude	Yes
High Water Cut	Yes
Hot Brine	Yes
Rod Cut Tubing	Yes
Sand	Excellent
Corrosion Resistance	Excellent
Chemical Resistance	Excellent
Resistance to CO <sub>2</sub>	Excellent



## Suggested Placement on Sucker Rods

You will generally be your own best judge for the specific circumstances of each well, but these recommendations can be helpful.

### To Prevent Stacking:

At the bottom 200 feet of the well, 4 to 6 centralizers per sucker rod will deter the "stacking" tendency on the downstroke and tubing "stacking" tendency on the upstroke.

### For Guiding:

Where known wear occurs, use a minimum of four centralizers per sucker rod; in high volume wells, a minimum of 6 centralizers per sucker rod.

### For Paraffin Removal:

In upper part of well where paraffin solidifies, use a minimum of 6 centralizers per sucker rod.

## A "Rule of Thumb" Formula"

$$\frac{\text{Sucker Rod Length (Inches)}}{\text{Stroke (Inches)}} + 1 = \text{Quantity Per Sucker Rod}$$



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