

# WWT HD Super Slider 3 (SS3) Non-Rotating Protectors (NRP)<sup>™</sup>



- Reduce torque and drag
- Protect against casing, riser, and drill pipe wear
- Reduce buckling, heat checking, vibration and stick-slip
- Open-hole capabilities

## Heavy Duty (HD) SS3 Specifications

WWT NRP Model	HD-SS3-578	HD-SS3-658-SLIM	HD-SS3-658-XL
Drill Pipe Size	5.88"	6.63"	6.63"
Sleeve Max OD	8.00"	8.75"	9.13"
Sleeve Effective OD	7.52"	8.31"	8.52"
Collar OD	7.38"	8.13"	8.13"
Sleeve Length	12"	12"	12"
Sleeve Volume	206 in <sup>3</sup>	233 in <sup>3</sup>	252 in <sup>3</sup>
Sleeve Weight	12.5 lbs	13.3 lbs	14.0 lbs
Continuous Side-Load Rating	4,000 lbs	5,000 lbs	5,000 lbs
Intermittent Side-Load Rating*	12,000 lbs	15,000 lbs	15,000 lbs
Cross-Sectional Area	17.3 in <sup>2</sup>	19.8 in <sup>2</sup>	22.6 in <sup>2</sup>
<b>Total Flow Area</b>			
9-5/8" x 53.5 ppf Csg.	12.8 in <sup>2</sup>		
10-3/4" x 55.5 ppf Csg.	30.4 in <sup>2</sup>	20.5 in <sup>2</sup>	
13-3/8" x 72 ppf Csg.	75.3 in <sup>2</sup>	65.5 in <sup>2</sup>	62.7 in <sup>2</sup>
Collar Material	6061-T651 Extruded Aluminum Alloy With Features for Wear Resistance		
Sleeve Material	Advanced Low-Friction Polymer With Proprietary Wear Additives, Nitrile Rubber and Alloy Steel Sheet		
Max. Temperature	220° F (105° C)		

\*Refer to document TSI017 for additional information regarding side force capabilities

## Features and Benefits

- New sleeve design enhances side force capabilities.
- Positive protection against casing and riser wear during drilling and completion operations.
- Significant torque reduction created by WWT's patented fluid bearing design allows for improved ROP, RPM and hole cleaning.
- Compatible with almost all drilling and completion fluids
- SS3 Protector design allows for open-hole applications.
- Optimum operating performance range of 40 – 250 RPM.
- Each assembly accepts up to 80,000 lbs. of axial force before slippage.
- Installation time per assembly: less than 1 minute.
- Free, no-obligation, confidential torque, drag and wear analysis.
- Global leadership in some of the world's most challenging drilling environments since 1989.
- On/off-site technical support 24/7.



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