

WWT Super Slider (SS) Non-Rotating Protectors (NRP)™



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

Model SS Specifications

WWT NRP Model	SS-350	SS-400	SS-450	SS-500	SS-550	SS-578	SS-658
Drill Pipe Size	3.50"	4.00"	4.50"	5.00"	5.50"	5.88"	6.63"
Sleeve Max OD	5.50"	5.88"	6.75"	7.25"	7.75"	8.00"	9.00"
Sleeve Effective OD	5.20"	5.57"	6.29"	6.98"	7.34"	7.62"	8.67"
Collar OD	5.00"	5.50"	6.00"	6.50"	7.00"	7.38"	8.13"
Sleeve Length	10"	10"	10"	10"	10"	10"	12"
Overall Length	20"	20"	20"	20"	20"	20"	22"
Side-Load Rating	2,200 lbs.	2,200 lbs.	3,000 lbs.	3,000 lbs.	3,000 lbs.	3,500 lbs.	3,500 lbs.
Cross-Sectional Area	11.6 in ²	11.8 in ²	15.2 in ²	18.6 in ²	18.6 in ²	18.5 in ²	24.5 in ²
Total Flow Area							
7" x 32 ppf Csg.	7.9 in ²						
7" x 29 ppf Csg.	8.8 in ²	5.7 in ²					
7" x 26 ppf Csg.	9.7 in ²	6.6 in ²					
7-5/8" x 39 ppf Csg.	13.2 in ²	10.1 in ²					
9-5/8" x 53.5 ppf Csg.	36.0 in ²	32.8 in ²	26.1 in ²	19.0 in ²	14.8 in ²	11.6 in ²	
10-3/4" x 55.5 ppf Csg.	53.6 in ²	50.4 in ²	43.7 in ²	36.6 in ²	32.5 in ²	29.2 in ²	15.8 in ²
13-3/8" x 72 ppf Csg.	98.5 in ²	95.4 in ²	88.6 in ²	81.5 in ²	77.4 in ²	74.1 in ²	60.8 in ²
Collar Material	6061-T651 Extruded Aluminum Alloy						
Sleeve Material	High-Temperature Polyurethane and Advanced Low-Friction Polymer Pads						
Max. Temperature	220° F (105° C)						



Features and Benefits

- Heavy-duty construction to accept greater contact forces.
- Positive protection against casing and riser wear during drilling and completion operations.
- Significant torque reduction created by our patented fluid bearing design allows for improved ROP, RPM and hole cleaning.
- Low-friction external pads provide measurable drag reduction in high-angle wells.
- Compatible with almost all drilling and completion fluids.
- Optimum operating performance range of 20 - 250 RPM.
- Reduces drillstring and surface equipment stress.
- Each assembly accepts up to 30,000 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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