

WWT Super Slider 3 (SS3) Non-Rotating Protectors (NRP)[™]



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

Model SS3 Specifications

WWT NRP Model	SS3-400-SLIM	SS3-400	SS3-450-SLIM	SS3-450	SS3-500	SS3-550	SS3-578	SS3-658-SLIM	SS3-658-XL
Drill Pipe Size	4.00"	4.00"	4.50"	4.50"	5.00"	5.50"	5.88"	6.63"	6.63"
Sleeve Max OD	5.50"	5.75"	6.25"	6.75"	7.30"	7.75"	8.00"	8.75"	9.13"
Sleeve Effective OD	5.30"	5.47"	6.00"	6.25"	6.79"	7.26"	7.52"	8.31"	8.52"
Collar OD	5.07"	5.38"	5.88"	6.00"	6.50"	7.00"	7.38"	8.13"	8.13"
Sleeve Length	12"	12"	12"	12"	12"	12"	12"	12"	12"
Sleeve Volume	111 in ³	120 in ³	153 in ³	168 in ³	177 in ³	203 in ³	206 in ³	233 in ³	252 in ³
Sleeve Weight	6.7 lbs	8 lbs	9.5 lbs	10 lbs	11 lbs	12.5 lbs	12.5 lbs	13.3 lbs	14.0 lbs
Side-Load Rating	2,200 lbs	2,200 lbs	3,000 lbs	3,000 lbs	3,000 lbs	3,000 lbs	3,500 lbs	3,500 lbs	3,500 lbs
Cross-Sectional Area	9.5 in ²	10.9 in ²	12.4 in ²	14.8 in ²	16.6 in ²	17.6 in ²	17.3 in ²	19.8 in ²	22.6 in ²
Total Flow Area									
7" x 32 ppf Csg.	7.1 in ²	5.7 in ²							
7" x 29 ppf Csg.	8.0 in ²	6.6 in ²							
7" x 26 ppf Csg.	8.9 in ²	7.5 in ²							
7-5/8" x 39 ppf Csg.	12.4 in ²	11.0 in ²	6.2 in ²						
9-5/8" x 53.5 ppf Csg.	35.1 in ²	33.7 in ²	28.9 in ²	26.5 in ²	21.0 in ²	15.8 in ²	12.8 in ²		
10-3/4" x 55.5 ppf Csg.	52.7 in ²	51.3 in ²	46.5 in ²	44.1 in ²	38.6 in ²	33.5 in ²	30.4 in ²	20.5 in ²	
13-3/8" x 72 ppf Csg.	97.7 in ²	96.3 in ²	91.4 in ²	89.0 in ²	83.5 in ²	78.4 in ²	75.3 in ²	65.5 in ²	62.7 in ²
Collar Material	6061-T651 Extruded Aluminum Alloy								
Sleeve Material	Advanced Low-Friction Polymer, Nitrile Rubber and Alloy Steel Sheet								
Max. Temperature	220° F (105° C)								



Features and Benefits

- Sleeve design enhances torque and drag benefits.
- 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 20 – 250 RPM.
- Each assembly accepts up to 36,000 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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