

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



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

Model SS3 Specifications

WWT NRP Model	SS3-400	SS3-450	SS3-500	SS3-550	SS3-578	SS3-658
Drill Pipe Size	4.00"	4.50"	5.00"	5.50"	5.88"	6.63"
Sleeve OD	5.75"	6.75"	7.30"	7.75"	8.00"	8.75"
Sleeve Length	12"	12"	12"	12"	12"	12"
Sleeve Volume	120 in. ³	168 in. ³	177 in. ³	203 in. ³	206 in. ³	233 in. ³
Sleeve Weight	8 lbs.	10 lbs.	11 lbs.	12.5 lbs.	12.5 lbs.	13.3 lbs.
Side-Load Rating	2,200 lbs.	3,000 lbs.	3,000 lbs.	3,000 lbs.	3,500 lbs.	3,500 lbs.
Cross-Sectional Area	10.9 in. ²	14.8 in. ²	16.6 in. ²	17.6 in. ²	17.3 in. ²	19.8 in. ²
Total Flow Area						
7" x 32 ppf Casing	5.7 in. ²					
7" x 29 ppf Casing	6.6 in. ²					
7" x 26 ppf Casing	7.5 in. ²					
7-5/8" x 39 ppf Casing	11.0 in. ²					
9-5/8" x 47 ppf Casing	35.8 in. ²	28.5 in. ²	23.0 in. ²	17.8 in. ²	14.8 in. ²	
10-3/4" x 55.5 ppf Casing	51.3 in. ²	44.1 in. ²	38.5 in. ²	33.5 in. ²	30.1 in. ²	20.5 in. ²
13-3/8" x 72 ppf Casing	96.3 in. ²	89.0 in. ²	83.5 in. ²	78.2 in. ²	75.1 in. ²	65.4 in. ²
Sleeve Material	Advanced Low-Friction Polymer, Nitrile Rubber and Alloy Steel Sheet					
Max. Temperature	220° F (105° C)					

Features and Benefits

- New sleeve design enhances torque and drag benefits.
- 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.
- Compatible with almost all drilling and completion fluids.
- WWT 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 1990.
- On/off-site technical support and direction 24/7.

Houston, Texas, USA • Al-Khobar, Saudi Arabia • Quito, Ecuador • Aberdeen, Scotland • Dubai, UAE • Rio De Janeiro, Brasil

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