

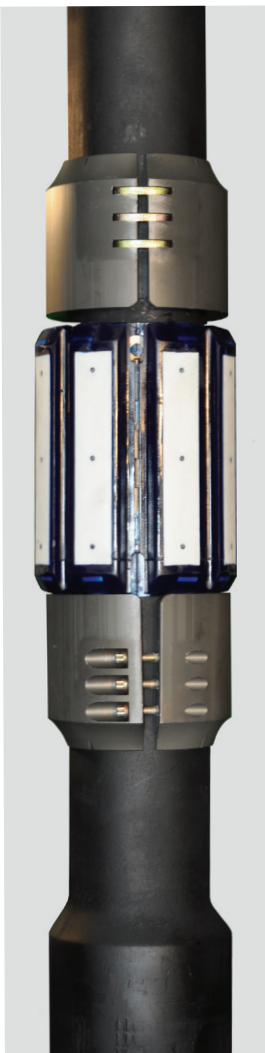
WWT Super Slider (SS) Non-Rotating Protectors (NRP)™



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

Model SS Specifications

NRP Model	SS-350	SS-400	SS-450	SS-500	SS-550	SS-578	SS-658
Drill Pipe Size	3-1/2"	4"	4-1/2"	5"	5-1/2"	5-7/8"	6-5/8"
Sleeve OD	5-1/2"	5-7/8"	6-3/4"	7-1/4"	7-3/4"	8"	9"
Collar OD	5"	5-1/2"	6"	6-1/2"	7"	7-3/8"	8-1/8"
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.
Total Flow Area							
7" x 32 ppf Casing	7.8 in. ²						
7" x 29 ppf Casing	8.8 in. ²	5.6 in. ²					
7" x 26 ppf Casing	9.7 in. ²	6.5 in. ²					
7-5/8" x 39 ppf Casing	13.2 in. ²	10.1 in. ²					
9-5/8" x 47 ppf Casing	37.9 in. ²	34.8 in. ²	28.1 in. ²	20.9 in. ²	15.7 in. ²	13.5 in. ²	
10-3/4" x 55.5 ppf Casing	53.5 in. ²	50.4 in. ²	43.7 in. ²	36.5 in. ²	31.3 in. ²	29.1 in. ²	15.8 in. ²
13-3/8" x 72 ppf Casing	98.5 in. ²	95.3 in. ²	88.6 in. ²	81.4 in. ²	76.2 in. ²	74 in. ²	60.7 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 1990.
- On/off-site technical support and direction.

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

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