

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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