

# WWT Standard Nonrotating Protector - NRP



## Model S Specifications

NRP Model	S-278	S-350	S-400*	S-450	S-500	S-550	S-578	S-658
Drill Pipe Size	2-7/8"	3-1/2"	4"	4-1/2"	5"	5-1/2"	5-7/8"	6-5/8"
Sleeve OD	4-3/8"	5-1/2"	6-1/4"	6-3/4"	7-1/4"	7-3/4"	8"	9"
Collar OD	3-7/8"	5"	5-1/2"	6"	6-1/2"	7"	7-3/8"	8-1/8"
Sleeve Length	9-1/2"	10"	10"	10"	9-1/2"	10"	10"	12"
Overall Length	19-1/2"	20"	20"	20"	19-1/2"	20"	20"	22"
Side-Load Rating	1,000 lbs.	1,500 lbs.	1,500 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.	2,500 lbs.	2,500 lbs.
Total Flow Area								
5-1/2" Casing	5.1 in. <sup>2</sup>	N/R	N/R	N/R	N/R	N/R	N/R	N/R
7" Casing	19 in. <sup>2</sup>	8.3 in. <sup>2</sup>	N/R	N/R	N/R	N/R	N/R	N/R
9-5/8" Casing	48 in. <sup>2</sup>	37 in. <sup>2</sup>	33 in. <sup>2</sup>	27 in. <sup>2</sup>	21 in. <sup>2</sup>	16.3 in. <sup>2</sup>	12.7 in. <sup>2</sup>	N/R
13-3/8" Casing	110 in. <sup>2</sup>	99 in. <sup>2</sup>	95 in. <sup>2</sup>	89 in. <sup>2</sup>	83 in. <sup>2</sup>	77 in. <sup>2</sup>	74 in. <sup>2</sup>	63 in. <sup>2</sup>
Collar Material	6061-T651 Extruded Aluminum Alloy							
Sleeve Material	High-Temperature Polyurethane							
Max. Temperature	230° F (110° C)							

\* Also available in Slim-Hole design for increased flow area. N/R = Not Recommended

## Features and Benefits

- Positive protection against casing and riser wear during drilling operations.
- Significant torque reduction created by our patented fluid bearing design allows for improved ROP.
- Assembly models available for oil-, synthetic- and water-based drilling fluids.
- Optimum operating performance range of 30 - 250 RPM.
- Reduces drillstring and surface equipment stress.



- Each assembly accepts up to 30,000 lbs. of axial force before slippage.
- Installation time: less than 1 minute.
- Free, no-obligation, confidential torque, drag and wear analysis may be obtained via our website.
- More than 15 years of global leadership in controlling wellbore and riser torque, drag and wear in some of the world's most challenging drilling environments.



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## Western Well Tool

*Innovative Products for Drilling, Completion and Intervention Profitability*

*To find out more about Western Well Tool Nonrotating Protectors or our Coiled Tubing Tractors, visit our website.*