

# Drill Collar Data & Performance Sheet

## 8" x 2-13/16" Spiral DC with NC56

### TUBE BODY DATA

Tube OD	8.000	in.
Wall Thickness	2.594	in.
Tube ID	2.813	in.
Material Grade	100,000	psi.
Tensile Yield Strength	3,506,766	lbs.
Torsional Yield Strength	351,627	ft-lbs.
Tube Burst	53,550	psi.
Tube Collapse	42,473	psi.

### CONNECTION DATA

Connection	NC56
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### CONNECTION PERFORMANCE

Make Up Torque (API)	53,000	ft-lbs. (1.0 FF)
	60,950	ft-lbs. (1.15 FF)
Connection Tensile Yield	1,707,600	lbs.
Connection Torsional Yield	77,000	ft-lbs.

### ENGINEERING DATA

Approximate Length	30	ft.		
Drift Diameter	2.688	in.		
Adj. Weight	149.76	lbs. / ft.		
Displacement	2.2885	gal. / ft.	0.0545	bbls. / ft.
	0.3227	gal. / ft.	0.0077	bbls. / ft.
Capacity	0.3227	gal. / ft.	0.0077	bbls. / ft.
BSR	3.020			

### Notes:

- Ensure sufficient MUT is applied to the connection. Stick and slip is very damaging to connections and can induce higher-than-planned torque. Adjust MUT according to thread compound friction factor. Higher MUT values may be used under extreme conditions and is recommended when downhole torque and/or backoff is a concern.
- Dimensions, wall thickness, and lengths shown above are nominal. Figures may exclude the effects of wear, stress relief, boreback, ID chamfers, and/or spiral features.

The technical information contained herein, including the product performance sheet and other attached documents, has been extracted from information available from the manufacturer and is for reference only and not a recommendation. The user is fully responsible for the accuracy and suitability of use of the technical information. Patterson Services, Inc. cannot assume responsibility for the results obtained through the use of this material. No expressed or implied warranty is intended. Drill Collar properties are calculated based on uniform OD and wall thickness. No safety factor is applied. Weight, displacement, and capacity are approximate and can vary by  $\pm 10\%$  (or more) depending on OD, specified wall, wall tolerance, and internal coating options. It is the responsibility of the customer and the end user to determine the appropriate performance ratings, acceptable use of the product, maintain safe operational practices, and to apply a prudent safety factor suitable for the application.