

Drill Collar Data & Performance Sheet

3-1/8" x 1-1/8" Spiral DC with 2-3/8 Reg

TUBE BODY DATA

Tube OD	3.125	in.
Wall Thickness	1.000	in.
Tube ID	1.125	in.
Material Grade	110,000	psi.
Tensile Yield Strength	734,347	lbs.
Torsional Yield Strength	31,161	ft-lbs.
Tube Burst	61,600	psi.
Tube Collapse	47,872	psi.

CONNECTION DATA

Connection	2-3/8 REG
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CONNECTION PERFORMANCE

Make Up Torque (API)	3,300	ft-lbs. (1.0 FF)
	3,795	ft-lbs. (1.15 FF)
Connection Tensile Yield	309,500	lbs.
Connection Torsional Yield	5,300	ft-lbs.

ENGINEERING DATA

Approximate Length	30	ft.		
Drift Diameter	1.000	in.		
Adj. Weight	22.70	lbs. / ft.		
Displacement	0.3468	gal. / ft.	0.0083	bbls. / ft.
	0.0516	gal. / ft.	0.0012	bbls. / ft.
Capacity	0.0516	gal. / ft.	0.0012	bbls. / ft.
BSR	2.645			

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 ± 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.