

Drill Collar Data & Performance Sheet

3-1/8" x 1-1/4" Plain DC with 2-3/8 Reg

TUBE BODY DATA

Tube OD	3.125	in.
Wall Thickness	0.938	in.
Tube ID	1.250	in.
Material Grade	110,000	psi.
Tensile Yield Strength	708,699	lbs.
Torsional Yield Strength	30,882	ft-lbs.
Tube Burst	57,750	psi.
Tube Collapse	46,200	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	283,800	lbs.
Connection Torsional Yield	5,300	ft-lbs.

ENGINEERING DATA

Approximate Length	30	ft.		
Drift Diameter	1.125	in.		
Adj. Weight	21.90	lbs. / ft.		
Displacement	0.3347	gal. / ft.	0.0080	bbls. / ft.
	0.0637	gal. / ft.	0.0015	bbls. / ft.
Capacity	0.0637	gal. / ft.	0.0015	bbls. / ft.
BSR	2.751			

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.