# **Drill Pipe Data & Performance Sheet**

# 4" 14.00# S-135 R2 DS-38

## **TUBE BODY DATA**

### **CONNECTION DATA**

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Tube OD	4.000 in.		Connection	DS-38™			
			Tool Joint OD	4.875	in.		
Wall Thickness	0.330 in.		Tool Joint ID	2.438	in.		
Tube ID	3.340 in.		Tool Joint SMYS	120,000	psi.		
Tensile Yield Strength	403,500 lbs. (AP	Premium 80% Inspection Class)	CONNECTION PERFORMANCE				
Torsional Yield Strength	32,800 ft-lbs. (API Premium 80% Inspection Class)		Make Up Torque (Max.) <sup>1</sup>	17,400 20,010	ft-lbs. (1.0 FF) ft-lbs. (1.15 FF)		
Upset Type   Upset OD (max)	IU	4.100 in.	Connection Tensile Yield (@ Max. M/U TQ)	591,700	lbs.		
Elevator Capacity	534,234 lbs.		Connection Torsional Yield	29,000	ft-lbs.		
Tube Burst	17,820 psi. (API	Premium 80% Inspection Class)	ENGINEERING DATA				
Tube Collapse	13,836 psi. (API	Premium 80% Inspection Class)	Approximate Length	31	ft.		
Slip-Crush Capacity	386,300 lbs.		Drift Diameter	2.313	in.		
(16.5" gripper contact length)			Adj. Weight	15.63	lbs. / ft.		
			Displacement	0.2388	gal. / ft.	0.0057	bbls. / ft.
			Capacity	0.4338	gal. / ft.	0.0103	bbls. / ft.

#### Notes:

<sup>1</sup>Max MUT 1.0 FF is 60% of connection torsional strength. As required, adjust MUT according to applied thread compound friction factor, not exceeding 1.15. Rec MUT for most applications is that shown for 1.0 FF, regardless of dope used. Higher MUT should only be applied where rotary torque exceeds 80% of MUT 1.0 FF or when downhole torque and/or backoff is a concern.

Compatible with NC38 (3-1/2 IF)

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 Servicers, Inc. cannot assume responsibility for the results obtained through the use of this material. No expressed or implied warranty is intended. Drill pipe assembly 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. For API connections that have different pin and box IDs, tool joint ID refers to the pin ID. Per Chapter B, Section 4 VII of the IADC drilling manual, it is recommended that drilling torque should not exceed 80% of MUT.

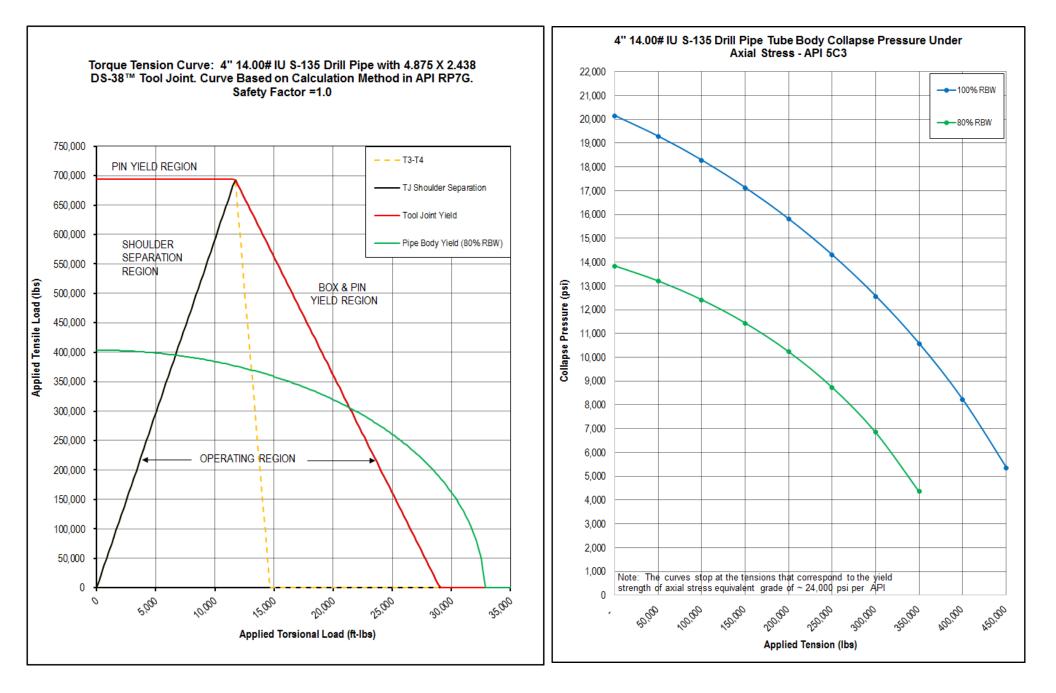


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