Drill Pipe Data & Performance Sheet

4-1/2" 16.60# S-135 R2 XT-M43™

TUBE BODY DATA

CONNECTION DATA

Tube OD	4.500 in.			Connection XT-M43™					
				Tool Jo	int OD	5.250	in.		
Wall Thickness	0.337 in.			Tool Jo	int ID	3.000	3.000 in.		
Tube ID	3.826 in.			Tool Joint SMYS120,000 psi.					
Tensile Yield Strength	468,300 I	lbs. (API Pr	emium 80% Inspection Class)						
Torsional Yield Strength	43,500 f	43,500 ft-lbs. (API Premium 80% Inspection Class)		Make Up Torque (Max.) ¹		23,500 27,025	ft-lbs. (1.0 FF) ft-lbs. (1.15 FF)		
Upset Type Upset OD (max)	IE	EU	4.600 in.	•••••••	t ion Tensile Yield M/U TQ)	671,300	lbs.		
Elevator Capacity	478,297 l	lbs.			tion Torsional Yield	39,200	ft-lbs.		
Tube Burst	16,176 psi. (API Premium 80% Inspection Class)			ENGINEERING DATA					
Tube Collapse	10,964	psi. (API Pre	emium 80% Inspection Class)	Approx	imate Length	31	ft.		
Slip-Crush Capacity	431,600	lbs.		Drift Dia	ameter	2.875	in.		
(16.5" gripper contact length)				Adj. Weight		17.76	lbs. / ft.		
			Displacement		0.2714	gal. / ft.	0.0065	bbls. / ft.	
				Capacit	у	0.5734	gal. / ft.	0.0137	bbls. / ft.

Notes:

¹Max 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.

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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.



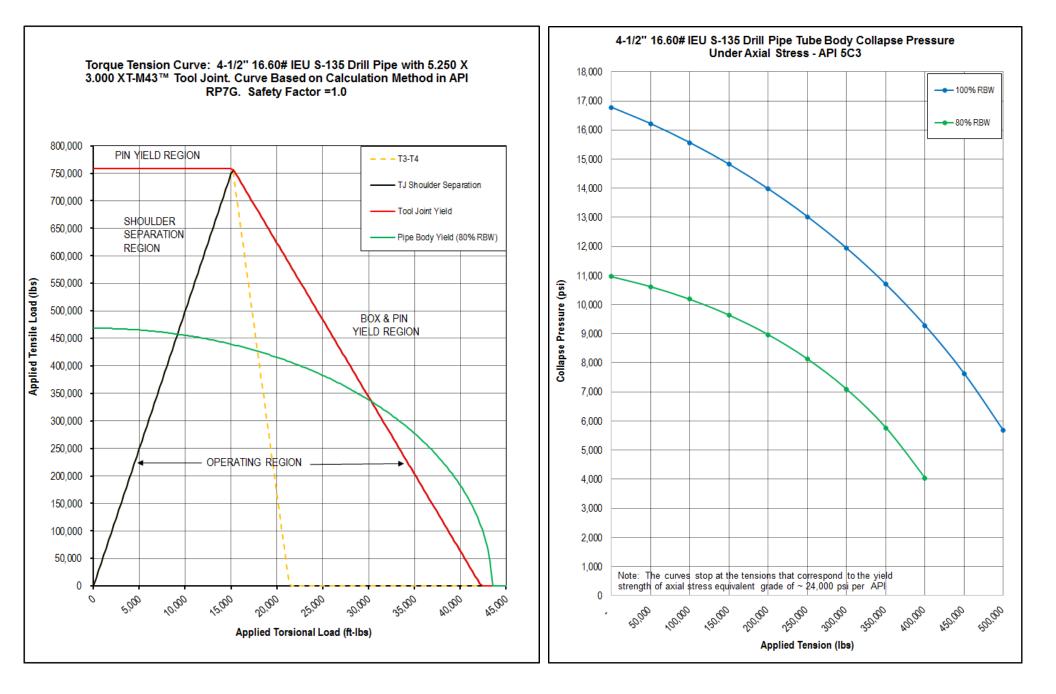
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