

DOC TITLE: DRILL PIPE PERFORMANCE DATA SHEET

DOC. NO. TAS-RT-DP-015

REV: NA

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## **DRILL PIPE PERFORMANCE DATA SHEET**

Pipe Size & Weight: Pipe Grade:

Range:

4.00\_14.00\_lb/ft IU \$135 2

**IMPERIAL UNIT** 

Tool Joint: 5" x 2.4375" DPM-DS38

PIPE	TERIALS -	New <u>(Nominal</u>	1	DRILL PIPE WEAR & MECHANICAL PERF	ORIVIANCE	New (Nominal)	API <u>Premium</u>
Pipe Size	in	4_14.00 lb/ft IU	1111111111	OD	in	4.000	3.868
Pipe Grade		S135	11111111111	Wall Thickness	in	0.330	0.264
Pipe Length Range 2 or 3		2		Cross Sectional Area Pipe Body	in Sq.	3.805	2.989
ID	in	3.340		Section Modulus	in Cu	3.229	2.523
Calculated Plain End Weight	Lbs/ft	12.935		Polar Section Modulus	in Cu	6.458	5.046
Cross Sectional Area OD	In Sq.	12.566		Tensile Strength	lbs	513,646	403,52
Cross Sectional Area ID	In Sq.	8.762		Torsional Strength	ft lbs	41,918	32,75
			Section 1	80% Torsional Strength	ft lbs	33,534	26,20
			API Premium	Internal Pressure Capacity	psi	19,491	17,82
Tensile Strength	lbs	751,508	751,508	Collapse Capacity	psi	20,141	13,83
Torsional Strength	ft-lbs	31,693	26,167				
80% Torsional Strength	ft-lbs	33,534	26,202	Tool Joint/Pipe Body/Torsional Ratio		0.756	0.799
		New				New	
TOOL IONE		(Nominal)		DRILL PIPE ASSEMBLY		(Nominal)	
TOOLJOINT	_	(Homman)		<del></del>		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	
Connection Type	_	DPM-DS38		Approx. Length	ft	31.00	
	– ksi	<u></u>			ft lbs/ft		
Connection Type	- ksi in	DPM-DS38		Approx. Length	-	31.00	
Connection Type Material Yield Strength		DPM-DS38 130		Approx. Length	-	31.00	
Connection Type Material Yield Strength Outside Diameter (OD)	in	DPM-DS38 130 5.000		Approx. Length Adjusted Weight	lbs/ft	31.00 15.80	
Connection Type Material Yield Strength Outside Diameter (OD) Inside Diameter (ID)	in in	DPM-DS38 130 5.000 2.438		Approx. Length Adjusted Weight Drift Size	lbs/ft in	31.00 15.80 2.313	
Connection Type Material Yield Strength Outside Diameter (OD) Inside Diameter (ID) Pin Tong Length	in in in	DPM-DS38 130 5.000 2.438 10.000		Approx. Length Adjusted Weight Drift Size	lbs/ft in	31.00 15.80 2.313	
Connection Type Material Yield Strength Outside Diameter (OD) Inside Diameter (ID) Pin Tong Length Box Tong Length	in in in in	DPM-DS38 130 5.000 2.438 10.000 14.000		Approx. Length Adjusted Weight Drift Size Maximum Upset OD	lbs/ft in in	31.00 15.80 2.313 4.188	
Connection Type Material Yield Strength Outside Diameter (OD) Inside Diameter (ID) Pin Tong Length Box Tong Length Pin shoulder Angle	in in in in deg	DPM-DS38 130 5.000 2.438 10.000 14.000		Approx. Length Adjusted Weight Drift Size Maximum Upset OD Fluid Displacement	lbs/ft in in gal/ft	31.00 15.80 2.313 4.188	
Connection Type Material Yield Strength Outside Diameter (OD) Inside Diameter (ID) Pin Tong Length Box Tong Length Pin shoulder Angle Tensile Strength	in in in in deg Ibs	DPM-DS38 130 5.000 2.438 10.000 14.000 35 751,508		Approx. Length Adjusted Weight Drift Size Maximum Upset OD Fluid Displacement	lbs/ft in in gal/ft	31.00 15.80 2.313 4.188	
Connection Type Material Yield Strength Outside Diameter (OD) Inside Diameter (ID) Pin Tong Length Box Tong Length Pin shoulder Angle Tensile Strength	in in in in deg Ibs ft-Ibs	DPM-DS38 130 5.000 2.438 10.000 14.000 35 751,508 31,693		Approx. Length Adjusted Weight Drift Size Maximum Upset OD Fluid Displacement	lbs/ft in in gal/ft	31.00 15.80 2.313 4.188	

Premium properties are calculated based on uniform Outside Diameter and Wall Thickness

Torque performances are calculated with coefficient of friction factor, 0.08.

API recommends a torsional ratio of 0.8 or greater

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