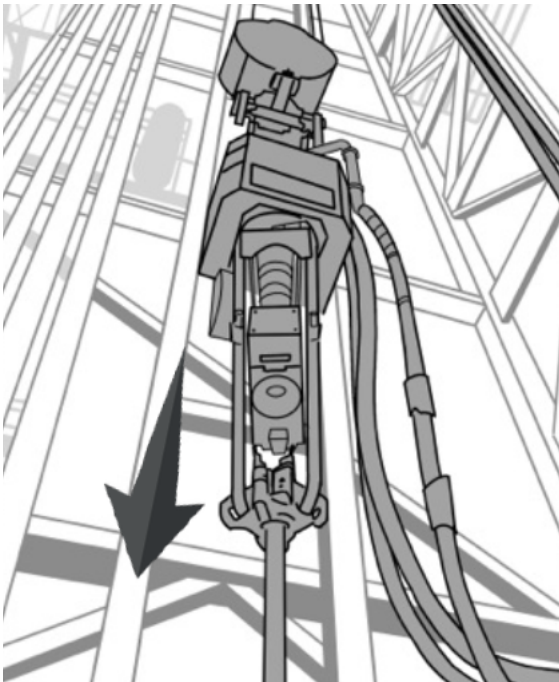


# CARE AND HANDLING DPM CONNECTIONS



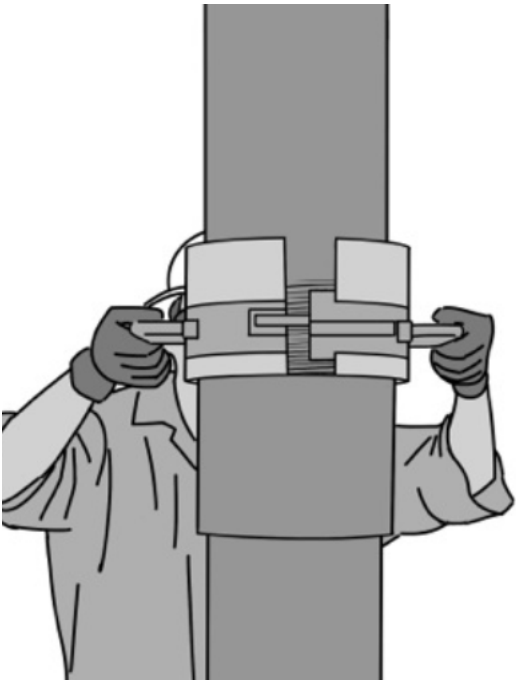
Top Drive Bell ½” > Tool Joint OD



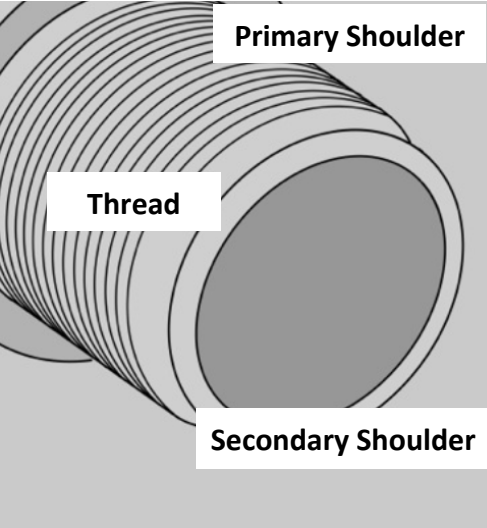
Calibrate Torquing Equipment



Thread Protectors on until connection make up



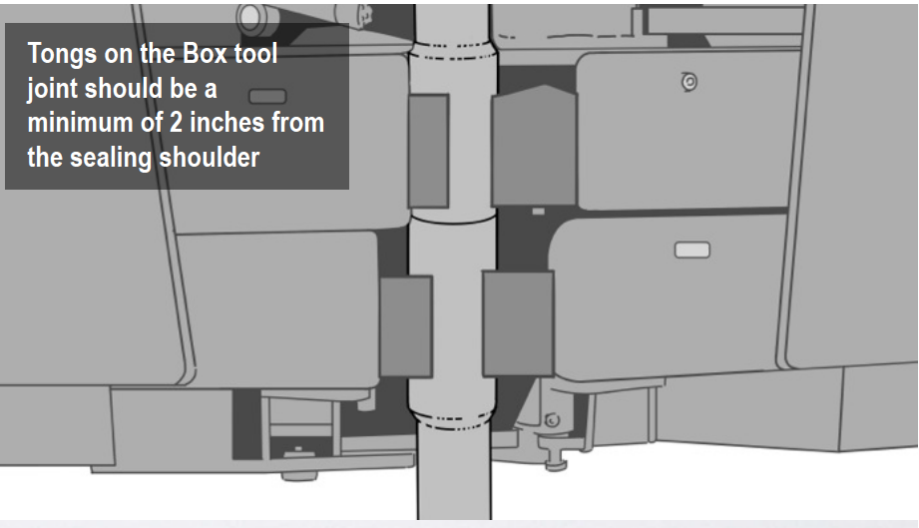
Stabbing Guide (Required for DPM-ST®, optional for DPM-DS and DPM-MT®)



Primary Shoulder

Thread


Secondary Shoulder



Tongs on the Box tool joint should be a minimum of 2 inches from the sealing shoulder

Dope on ALL shoulders and Threads

Lower Tong dies 2” below Box Shoulder

	PERFORMANCE	DRILL PIPE WEIGHT & WEIGHTS		
	DRILL PIPE	IMPERIAL UNIT		
DRILL PIPE PERFORMANCE DATA SHEET		Pipe Size & Weight: 4.75 OD x 11.0 lb/ft IU 515		
		Range: 2		
		Tool Joint: 4.75 X 2.375 DPM-ST38		
DRILL PIPE DIMENSIONS & MATERIALS				
PIPE		NEW	PREMIUM	
	Pipe size	in	4.75 OD x 11.0 lb/ft IU	
	Pipe Grade	S155		
	Pipe Body Material Yield Strength	psi	135,000	
	Pipe Length Range 2 or 3		2	
	Calculated Plain End Weight	lb/ft	12.935	
	Cross Sectional Area OD	in Sq	12.566	
	Cross Sectional Area ID	in Sq	8.762	
TOOL JOINT				
	Connection Type	DPM-ST38		
	Material Yield Strength	ksi	130	
	OD	in	4.750	
	ID	in	2.375	
	Pin Tool Joint OD Length	in	11.000	
	Box Tool Joint OD Length	in	14.000	
	Pin shoulder Angle	deg	18	
	DRILL PIPE ASSEMBLY			
	Shoulder-Shoulder Length	ft	31.50	
	Adjusted Weight	lb/ft	15.48	
	Closed End Displacement	gal/ft	0.071	
	Open End Displacement	gal/ft	0.237	
	Fluid Capacity	gal/ft	0.485	
	Drift Size	in	2.250	
DRILL PIPE WEAR & MECHANICAL PERFORMANCES				
PIPE		NEW	PREMIUM	
	Pipe Size	in	4.75 OD x 11.0 lb/ft IU	
	Pipe Grade	S155		
	Pipe Body Material Yield Strength	psi	135,000	
	Pipe Length Range 2 or 3		2	
	Calculated Plain End Weight	lb/ft	12.935	
	Cross Sectional Area OD	in Sq	12.566	
	Cross Sectional Area ID	in Sq	8.762	
	Wall Thickness	in	0.330	
	Cross Sectional Area Pipe Body	in Sq	3.805	
	Section Modulus	in Cu	8.229	
	Polar Section Modulus	in Cu	6.458	
	Tensile Strength	ft-lbs	513,646	
	Torsional Strength	ft-lbs	41,918	
	80% Torsional Strength	ft-lbs	33,534	
	Internal Pressure Capacity	psi	19,491	
TOOL JOINT	Collapsing Capacity	psi	20,141	
	Tool Joint / Pipe Body Torsional Ratio		0.925	
		OD	in	4.750
		ID	in	2.375
		Tensile Strength	lbs	772,276
		Torsional Strength	ft-lbs	38,772
	Enhanced Performance Performance	ft-lbs	23,000	
	Recommended Make-up Torque	ft-lbs	23,300	
	Balanced OD	in	4.751	
	Weak Connection		SOX WEAK	
Datashot for Reference Only				
All new and premium properties are calculated based on nominal in accordance to API.				
Torque capacities calculated with coefficient of friction 0.08.				
API recommends a torsional ratio of 0.8 or greater.				
The use of the information is at reader's discretion and no warranty is implied or expressed by OP-Master with the use of information contained herein.				
The information in this publication is subject to change without notice, please contact OP-Master for the latest publication.				
Make-up torque values are calculated based on three compound friction factor of 1.00.				