

## Drill Pipe Performance Characteristics Sheet



**Pipe Size and Weight:** 5 44.80 EU

**Pipe Grade:** HWDP

**Range:** 2

**Tool Joint:** 5 7/8 X 3 PTECH47+

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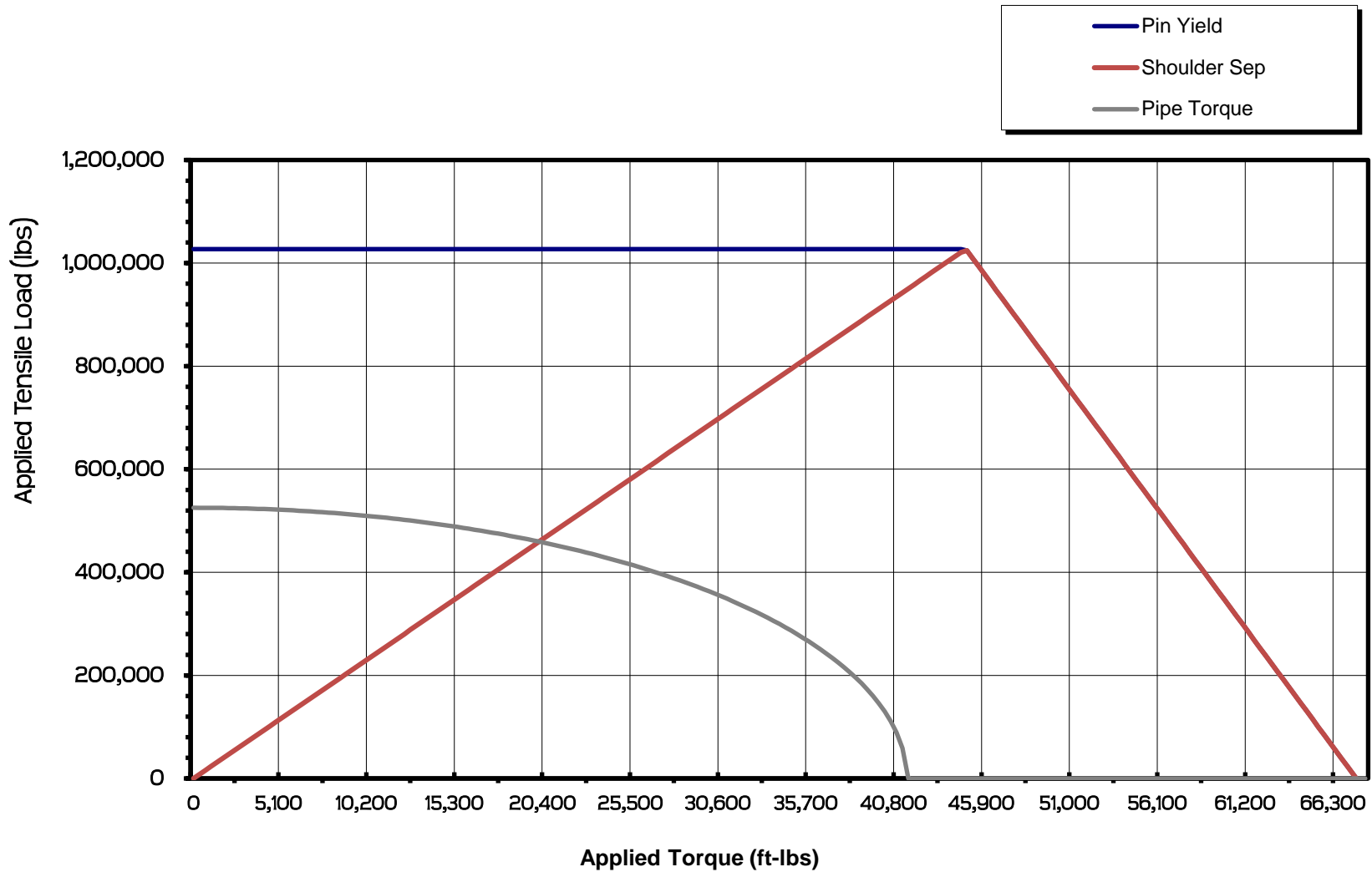
**Patent Pending**

Revision 0

Pipe Body																				
	<b>New-API</b>	<b>Premium</b>																		
OD (in)	5.000	4.600																		
Wall Thickness (in)	1.000	0.800																		
ID (in)	3.000	3.000																		
Calculated Plain End weights (lbs/ft)	42.700	32.452																		
<b>Note: Premium properties are calculated based on uniform OD and wall thickness.</b>																				
Cross sectional area pipe body (in <sup>2</sup> )	12.566	9.550																		
Cross sectional area OD (in <sup>2</sup> )	19.635	16.619																		
Cross sectional area ID (in <sup>2</sup> )	7.069	7.069																		
Section Modulus (in <sup>3</sup> )	10.681	7.827																		
Polar Section Modulus (in <sup>3</sup> )	21.363	15.654																		
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Tool Joint																				
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: right;"> <p><b>PTECH47+</b></p> <p>OD (in) 5 7/8 ID (in) 3</p> <p><b>Tool Joint with a Material Yield Strength of 110000 psi</b></p> <p>Pin Tong length (in) 13 Box Tong length (in) 15</p> <p><b>Torsional Strength (ft-lbs) 60,800</b> <b>Recommended Make-up Torque (ft-lbs) 36,500</b> <b>Min Recommended Make-up Torque (ft-lbs) 30,400</b></p> <p>Balance OD (in) 6.035 <b>Tensile Strength (lbs) 1,034,300</b> Tool joint/Drill pipe torsional ratio (New pipe) 1.08 Tool joint/Drill pipe torsional ratio (95% New pipe) #DIV/0! Tool joint/Drill pipe torsional ratio (Prem pipe) 1.47 Min OD for premium class (in) 5.594</p> </div> </div>																				
Drill Pipe Assembly with PTECH+ Tool Joint	Drill Pipe Bend Radius																			
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# TORQUE TENSION COMBINED LOAD CURVE

For PTECH47+ 5 7/8 X 3 Tool Joint with a Material Strength of 110000 psi, using a Coefficient of Friction factor of 0.08 and a Safety Factor of 1.0. On Pipe: 5 44.80 HWDP Premium Class.



PTECH47+ 5 7/8 X 3 TOOL JOINT OD WEAR CURVE

