

**"DIFFERENT BY DESIGN"**

**"THE DIFFERENCE MATTERS"**

**TORQUE COMPARISONS WITH COMPETING COMPLETION CONNECTIONS**

Pipe			Connection					
OD	Lbs/Ft	Grade	Description	OD	ID	Grade	Torsional Yield	Recommended MUT
2.375	5.95	P110	PH-6™	2.906	1.805	P110	na	3,400
		S135	<b>FSS-238</b>	<b>2.906</b>	<b>1.805</b>	<b>S135</b>	<b>6,785</b>	<b>4,100</b>
			<b>FSS-247</b>	<b>3.062</b>	<b>1.805</b>	<b>S135</b>	<b>8,796</b>	<b>5,300</b>
	6.65	S135	PTech23+™	3.062	1.500	S135	9,610	5,800
			NC26DS	3.375	1.750	120k	8,000	4,800
			PTech24+™	3.062	1.805	S135	7,850	4,700
2.875	7.90	P110	PH-6™	3.437	2.265	P110	na	4,400
		S135	<b>FSS-265</b>	<b>3.250</b>	<b>2.000</b>	<b>S135</b>	<b>10,339</b>	<b>6,200</b>
	PTech28+™		3.625	2.000	S135	14,460	8,700	
	2-7/8 HTPAC™		3.125	1.500	120k	8,500	5,100	
	2-7/8 AOH		3.875	2.156	120k	8,700	5,200	
	2-3/8 HT-SL-H90		3.125	1.975	120k	7,800	4,600	
	XT27™		3.375	1.844	120k	11,900	7,100	
	WT26™	3.375	1.750	120k	11,200	9,800		
	10.40	NC31DS	4.125	2.000	120k	17,400	10,500	



Engineering 713-703-5399	Sales 303-478-7119
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Pipe			Connection					
OD	Lbs/Ft	Grade	Description	OD	ID	Grade	Torsional Yield	Recommended MUT
3.500	12.95	P110	PH-6™	4.313	2.687	P110	na	8,900
		S135	<b>FSS-329</b>	<b>4.000</b>	<b>2.500</b>	<b>S135</b>	<b>19,780</b>	<b>11,500</b>
	<b>FSS-338</b>		<b>4.125</b>	<b>2.562</b>	<b>S135</b>	<b>21,632</b>	<b>13,000</b>	
	Ptech35+™		4.250	2.688	S135	23,040	13,800	
	13.30	NC38DS	4.750	2.688	120k	21,600	12,900	

*Dimensions and Performance data collected from published works*

PTECH+™ is a trademark of Ptech Drilling Tubulars, LLC

XT™ is a trademark of NOV Grant Prideco

WT™ and PH6™ are trademarks of Tenaris Hydril