

## API Drill Pipe Connections

Connection Size and Style RSC Type	Box OD (in)	Pin ID (in)	Make-Up Torque (ft-lbs)	Torsional Yield (ft-lbs)	Pin Tensile Yield (lbs)	
<b>6 5/8 FH</b>	<b>8</b>	4 1/4	52,714	87,856 <b>b</b>	2,102,200	
		4 1/2	52,714	87,856 <b>b</b>	1,896,000	
		4 3/4	51,280	85,467	1,678,100	
		5	43,935	73,224	1,448,400	
	<b>8 1/8</b>	4 1/4	58,848	98,080 <b>b</b>	2,102,200	
		4 1/2	58,309	97,182	1,896,000	
		4 3/4	51,280	85,467	1,678,100	
		5	43,935	73,224	1,448,400	
	<b>8 1/4</b>	4 1/4	65,012	108,353	2,102,200	
		4 1/2	58,309	97,182	1,896,000	
		4 3/4	51,280	85,467	1,678,100	
		5	43,935	73,224	1,448,400	
	<b>8 1/2</b>	4 1/4	65,012	108,353	2,102,200	
		4 1/2	58,309	97,182	1,896,000	
		4 3/4	51,280	85,467	1,678,100	
		5	43,935	73,224	1,448,400	

**b - Torsional yield values shown in yellow indicate the connection is box weak in torsion.**

The torsional yield strength is based on a shear strength of 57.7% of the minimum yield strength

The tensile strength of the tool joint pin is based on 120,000 psi yield and the cross sectional area at the root of the thread 5/8" from the shoulder.