

API Drill Pipe Numbered Connections (NC)

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)	
NC 38	4 3/4	2 1/8	11,504	19,174 b	842,400	
		2 7/16	11,504	19,174 b	708,000	
		2 9/16	11,504	19,174 b	649,100	
		2 11/16	10,843	18,071	587,300	
	4 7/8	2 1/8	13,745	22,908 b	842,400	
		2 7/16	13,221	22,035	708,000	
		2 9/16	12,057	20,095	649,100	
		2 11/16	10,843	18,071	587,300	
	5	2 1/8	15,902	26,503	842,400	
		2 7/16	13,221	22,035	708,000	
		2 9/16	12,057	20,095	649,100	
		2 11/16	10,843	18,071	587,300	

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.