

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 40	5 1/4	2	17,615	29,358 b	1,080,100
		2 1/4	17,615	29,358 b	979,900
		2 7/16	17,615	29,358 b	897,100
		2 9/16	16,616	27,694	838,200
		2 11/16	15,319	25,532	776,400
	5 3/8	2	20,273	33,788 b	1,080,100
		2 1/4	19,616	32,693	979,900
		2 7/16	17,858	29,764	897,100
		2 9/16	16,616	27,694	838,200
		2 11/16	15,319	25,532	776,400
	5 1/2	2	21,757	36,262	1,080,100
		2 1/4	19,616	32,693	979,900
		2 7/16	17,858	29,764	897,100
		2 9/16	16,616	27,694	838,200
		2 11/16	15,319	25,532	776,400

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.