

Texas Steel Conversion TSDS 40 comparison with API NC 40

Box OD (in)	Pin ID (in)	Make-Up Torque (ft-lbs)	Torsional Yield (ft-lbs)	Pin Tensile Yield (lbs)	Connection Size and Style RSC Type
Values in green indicate the improved performance of TSDS over API					
5 1/8	2 7/16	24,010 + 60%	40,020 b + 60%	1,009,300 + 13%	TSDS 40
		15,047	25,078 b	897,100	API NC 40
	2 9/16	22,980 + 53%	38,300 b + 53%	943,000 + 13%	TSDS 40
		15,047	25,078 b	838,200	API NC 40
	2 11/16	21,870 + 45%	36,460 b + 45%	873,400 + 12%	TSDS 40
		15,047	25,078 b	776,400	API NC 40
5 1/4	2 7/16	26,900 + 53%	44,840 b + 53%	1,009,300 + 13%	TSDS 40
		17,615	29,358 b	897,100	API NC 40
	2 9/16	24,740 + 49%	41,240 + 49%	943,000 + 13%	TSDS 40
		16,616	27,694	838,200	API NC 40
	2 11/16	22,180 + 45%	36,970 + 45%	873,400 + 12%	TSDS 40
		15,319	25,532	776,400	API NC 40
5 1/2	2 7/16	27,180 + 52%	45,300 + 52%	1,009,300 + 13%	TSDS 40
		17,858	29,764	897,100	API NC 40
	2 9/16	24,740 + 49%	41,240 + 49%	943,000 + 13%	TSDS 40
		16,616	27,694	838,200	API NC 40
	2 11/16	22,180 + 45%	36,970 + 45%	873,400 + 12%	TSDS 40
		15,319	25,532	776,400	API NC 40

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

TSDS Values based on 135Ksi Material Yield Strength. API NC Values based on 120Ksi Material Yield Strength.

Torsional values are based on using a thread compound with a 1.0 API friction factor.

Pin tensile yield values are based on tensile loading conditions only, and do not include the combined effect of torsional and tensile loading.