

## Texas Steel Conversion TSDS 46 comparison with API NC 46

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					
6	2 3/4	42,260 + 59%	70,430 + 59%	1,331,800 + 12%	TSDS 46
		26,615	44,359	1,183,900	API NC 46
	3	35,960 + 54%	59,930 + 54%	1,179,400 + 12%	TSDS 46
		23,399	38,998	1,048,400	API NC 46
	3 1/4	29,050 + 46%	48,420 + 46%	1,013,800 + 13%	TSDS 46
		19,937	33,228	901,100	API NC 46
6 1/8	2 3/4	42,260 + 59%	70,430 + 59%	1,331,800 + 12%	TSDS 46
		26,615	44,359	1,183,900	API NC 46
	3	35,960 + 54%	59,930 + 54%	1,179,400 + 12%	TSDS 46
		23,399	38,998	1,048,400	API NC 46
	3 1/4	29,050 + 46%	48,420 + 46%	1,013,800 + 13%	TSDS 46
		19,937	33,228	901,100	API NC 46
6 1/4	2 3/4	42,260 + 59%	70,430 + 59%	1,331,800 + 12%	TSDS 46
		26,615	44,359	1,183,900	API NC 46
	3	35,960 + 54%	59,930 + 54%	1,179,400 + 12%	TSDS 46
		23,399	38,998	1,048,400	API NC 46
	3 1/4	29,050 + 46%	48,420 + 46%	1,013,800 + 13%	TSDS 46
		19,937	33,228	901,100	API NC 46

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.