

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

Box OD (mm)	Pin ID (mm)	Make-Up Torque (Nm)	Torsional Yield (Nm)	Pin Tensile Yield (kg)	Connection Size and Style RSC Type
Values in green indicate the improved performance of TSDS over API					
152,40	69,85	57 297 + 59%	95 490 + 59%	604 094 + 12%	TSDS 46
		36 085	60 143	537 008	API NC 46
	76,20	48 755 + 54%	81 254 + 54%	534 967 + 12%	TSDS 46
		31 725	52 874	475 546	API NC 46
	82,55	39 387 + 46%	65 649 + 46%	459 852 + 13%	TSDS 46
		27 031	45 051	408 732	API NC 46
155,58	69,85	57 297 + 59%	95 490 + 59%	604 094 + 12%	TSDS 46
		36 085	60 143	537 008	API NC 46
	76,20	48 755 + 54%	81 254 + 54%	534 967 + 12%	TSDS 46
		31 725	52 874	475 546	API NC 46
	82,55	39 387 + 46%	65 649 + 46%	459 852 + 13%	TSDS 46
		27 031	45 051	408 732	API NC 46
158,75	69,85	57 297 + 59%	95 490 + 59%	604 094 + 12%	TSDS 46
		36 085	60 143	537 008	API NC 46
	76,20	48 755 + 54%	81 254 + 54%	534 967 + 12%	TSDS 46
		31 725	52 874	475 546	API NC 46
	82,55	39 387 + 46%	65 649 + 46%	459 852 + 13%	TSDS 46
		27 031	45 051	408 732	API NC 46

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

TSDS Values based on 930,8 MPa Material Yield Strength. API NC Values based on 827,4 MPa 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.