

Texas Steel Conversion TSDS 50 comparison with API NC 50

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					
161,93	69,85	73 445 + 79%	122 417 b + 79%	791 791 + 12%	TSDS 50
		41 068	68 447 b	703 839	API NC 50
	76,20	69 648 + 70%	116 085 b + 70%	722 663 + 12%	TSDS 50
		41 068	68 447 b	642 378	API NC 50
	82,55	65 378 + 59%	108 981 b + 59%	647 503 + 12%	TSDS 50
		41 068	68 447 b	575 563	API NC 50
	88,90	55 114 + 52%	91 857 + 52%	566 355 + 12%	TSDS 50
		36 165	60 274	503 442	API NC 50
165,10	69,85	79 410 + 71%	132 355 b + 71%	791 791 + 12%	TSDS 50
		46 357	77 260 b	703 839	API NC 50
	76,20	75 601 + 63%	126 010 b + 63%	722 663 + 12%	TSDS 50
		46 357	77 260 b	642 378	API NC 50
	82,55	66 056 + 59%	110 093 + 59%	647 503 + 12%	TSDS 50
		41 664	69 441	575 563	API NC 50
	88,90	55 114 + 52%	91 857 + 52%	566 355 + 12%	TSDS 50
		36 165	60 274	503 442	API NC 50
168,28	69,85	85 281 + 65%	142 131 + 65%	791 791 + 12%	TSDS 50
		51 570	85 949	703 839	API NC 50
	76,20	76 116 + 63%	126 851 + 63%	722 663 + 12%	TSDS 50
		46 803	78 006	642 378	API NC 50
	82,55	66 056 + 59%	110 093 + 59%	647 503 + 12%	TSDS 50
		41 664	69 441	575 563	API NC 50
	88,90	55 114 + 52%	91 857 + 52%	566 355 + 12%	TSDS 50
		36 165	60 274	503 442	API NC 50

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.