

## Texas Steel Conversion TSDS 38 comparison with API NC 38

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					
4 3/4	2 1/8	20,110 + 75%	33,520 b + 75%	947,700 + 13%	TSDS 38
		11,504	19,174 b	842,400	API NC 38
	2 7/16	17,900 + 56%	29,840 b + 56%	796,500 + 13%	TSDS 38
		11,504	19,174 b	708,000	API NC 38
	2 9/16	16,900 + 47%	28,170 b + 47%	730,300 + 13%	TSDS 38
		11,504	19,174 b	649,100	API NC 38
4 7/8	2 1/8	22,630 + 65%	37,720 b + 65%	947,700 + 13%	TSDS 38
		13,745	22,908 b	842,400	API NC 38
	2 7/16	19,830 + 50%	33,060 + 50%	796,500 + 13%	TSDS 38
		13,221	22,035	708,000	API NC 38
	2 9/16	17,520 + 45%	29,200 + 45%	730,300 + 13%	TSDS 38
		12,057	20,095	649,100	API NC 38
5	2 1/8	25,060 + 58%	41,770 + 58%	947,700 + 13%	TSDS 38
		15,902	26,503	842,400	API NC 38
	2 7/16	19,830 + 50%	33,060 + 50%	796,500 + 13%	TSDS 38
		13,221	22,035	708,000	API NC 38
	2 9/16	17,520 + 45%	29,200 + 45%	730,300 + 13%	TSDS 38
		12,057	20,095	649,100	API NC 38

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.