

Texas Steel Conversion TSDS 55 comparison with API 5 1/2 FH

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					
177,80	82,55	90 298 + 76%	150 496 b + 76%	907 412 + 13%	TSDS 55
		51 171	85 285 b	806 578	API 5 1/2 FH
	88,90	85 295 + 67%	142 158 b + 67%	826 264 + 13%	TSDS 55
		51 171	85 285 b	734 457	API 5 1/2 FH
	95,25	79 763 + 56%	132 952 b + 56%	739 083 + 12%	TSDS 55
		51 171	85 285 b	656 983	API 5 1/2 FH
	101,60	67 100 + 48%	111 828 + 48%	645 916 + 12%	TSDS 55
		45 301	75 502	574 157	API 5 1/2 FH
180,98	82,55	97 443 + 69%	162 414 b + 69%	907 412 + 13%	TSDS 55
		57 521	95 867 b	806 578	API 5 1/2 FH
	88,90	92 440 + 61%	154 075 b + 61%	826 264 + 13%	TSDS 55
		57 521	95 867 b	734 457	API 5 1/2 FH
	95,25	80 942 + 55%	134 918 + 55%	739 083 + 12%	TSDS 55
		52 218	87 029	656 983	API 5 1/2 FH
	101,60	67 100 + 48%	111 828 + 48%	645 916 + 12%	TSDS 55
		45 301	75 502	574 157	API 5 1/2 FH
184,15	82,55	104 778 + 64%	174 643 b + 64%	907 412 + 13%	TSDS 55
		64 035	106 725 b	806 578	API 5 1/2 FH
	88,90	93 823 + 60%	156 367 + 60%	826 264 + 13%	TSDS 55
		58 745	97 908	734 457	API 5 1/2 FH
	95,25	80 942 + 55%	134 918 + 55%	739 083 + 12%	TSDS 55
		52 218	87 029	656 983	API 5 1/2 FH
	101,60	67 100 + 48%	111 828 + 48%	645 916 + 12%	TSDS 55
		45 301	75 502	574 157	API 5 1/2 FH

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 FH 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.