

Texas Steel Conversion PTECH+ and TSDS comparison with API Drill Pipe Connections

Connection Size and Style RSC Type	Box OD (mm)	Pin ID (mm)	Make-Up Torque (Nm)	Torsional Yield (Nm)	Pin Tensile Yield (kg)
Values in GOLD indicate the improved performance of PTECH+ over API.					
PTECH 39+	123,83	68,26	31 591 + 76%	52 674 + 76%	332 393 + 4%
TSDS 38	123,83	61,91	26 886 + 50%	44 823 + 50%	361 286 + 13%
API NC 38			17 925	29 875	321 143
PTECH 41+	133,35	74,61	36 472 + 62%	60 741 + 62%	361 150 -5%
TSDS 40	133,35	65,09	33 543 + 49%	55 914 + 87%	427 738 + 13%
API NC 40			22 528	37 548	380 201
PTECH 48+	155,58	87,31	58 029 + 61%	96 806 + 61%	508 749 -5%
TSDS 46	158,75	69,85	57 297 + 59%	95 490 + 59%	604 094 + 12%
API NC 46			36 085	60 143	537 008
PTECH 51+	165,10	95,25	67 113 + 61%	111 855 + 61%	554 653 -4%
TSDS 50	168,28	82,55	66 056 + 59%	110 093 + 59%	647 503 + 12%
API NC 50			41 664	69 441	575 563
PTECH 59+	184,15	107,95	91 653 + 56%	152 801 + 56%	693 497 -6%
TSDS 55	184,15	88,90	93 823 + 60%	156 367 + 60%	826 264 + 13%
API 5 1/2 FH			58 745	97 908	734 457
PTECH 68+	209,55	139,70	116 736 + 68%	194 560 + 68%	741 079 -3%
TSDS 65	209,55	120,65	107 313 + 54%	178 873 + 54%	856 337 + 13%
API 6 5/8 FH			69 526	115 878	761 173

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

Pin tensile yield values are based on tensile loading conditions only, and do not include the combined effect of torsional and tensile loading.