

New Tool Joints and New Drill Pipe

Pipe		Tool Joint							Pipe	Tool Joint	Pipe	Tool Joint	
API Label 1 (Pipe OD) (in)	API Label 2 (Nominal Weight) (lbs/ft)	Grade	Connection Size and Style RSC Type	OD (mm)	ID (mm)	Make-Up Torque (Nm)	Drift Diameter (mm)	Tensile Yield (kg)	Tensile Yield (kg)	Torsional Yield Strength (Nm)	Torsional Yield Strength (Nm)	Torsional Ratio	
4 1/2	16.60	E	NC 46	158,75	82,55	27 031	79,38	149 939	408 732	41 769	45 051	1.08	
		X	NC 46	158,75	76,20	31 725	73,03	189 922	475 546	52 907	52 874	1.00	
		X	TSDS 46	158,75	76,20	48 755	73,03	189 922	534 967	52 907	81 254	1.54	
		G	NC 46	158,75	76,20	31 725	73,03	209 914	475 546	58 477	52 874	0.90	
		G	TSDS 46	158,75	76,20	48 755	73,03	209 914	534 967	58 477	81 254	1.39	
		S	NC 46	158,75	69,85	36 085	66,68	269 889	537 008	75 184	60 143	0.80	
		S	TSDS 46	158,75	69,85	57 297	66,68	269 889	604 094	75 184	95 490	1.27	
	20.00	E	NC 46	158,75	82,55	27 031	79,38	187 042	408 732	50 031	45 051	0.90	
		X	NC 46	158,75	76,20	31 725	73,03	236 920	475 546	63 372	52 874	0.83	
		X	TSDS 46	158,75	76,20	48 755	73,03	236 920	534 967	63 372	81 254	1.28	
		G	NC 46	158,75	76,20	31 725	73,03	261 859	475 546	70 043	52 874	0.75	
		G	TSDS 46	158,75	76,20	48 755	73,03	261 859	534 967	70 043	81 254	1.16	
		S	NC 46	158,75	69,85	36 085	66,68	336 676	537 008	90 055	60 143	0.67	
		S	TSDS 46	158,75	69,85	57 297	66,68	336 676	604 094	90 055	95 490	1.06	
	22.82	E	NC 46	158,75	82,55	27 031	79,38	213 750	408 732	55 469	45 051	0.81	
		X	NC 46	158,75	76,20	31 725	73,03	270 751	475 546	70 260	52 874	0.75	
		X	TSDS 46	158,75	76,20	48 755	73,03	270 751	534 967	70 260	81 254	1.16	
		G	NC 46	158,75	76,20	31 725	73,03	299 250	475 546	77 656	52 874	0.68	
		G	TSDS 46	158,75	76,20	48 755	73,03	299 250	534 967	77 656	81 254	1.05	
		S	NC 46	158,75	69,85	36 085	66,68	384 751	537 008	99 844	60 143	0.60	
	S	TSDS 46	158,75	69,85	57 297	66,68	384 751	604 094	99 844	95 490	0.96		

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

The torsional yield strength is based on a shear strength of 57.7% of the minimum yield strength and nominal wall thickness.

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.