

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 (in)	ID (in)	Make-Up Torque (ft-lbs)	Drift Diameter (in)	Tensile Yield (lbs)	Tensile Yield (lbs)	Torsional Yield Strength (ft-lbs)	Torsional Yield Strength (ft-lbs)	Torsional Ratio
3 1/2	13.30	E	NC 38	4 3/4	2 11/16	10,843	2.563	271,569	587,300	18,551	18,071	0.97
		X	NC 38	5	2 9/16	12,057	2.438	343,988	649,100	23,498	20,095	0.86
		X	TSDS 38	5	2 9/16	17,520	2.438	343,988	730,300	23,498	29,200	1.24
		X	PTech39+	4 3/4	2 11/16	20,600	2.563	343,988	732,800	23,498	34,320	1.46
		G	NC 38	5	2 7/16	13,221	2.313	380,197	708,000	25,972	22,035	0.85
		G	TSDS 38	5	2 7/16	19,830	2.313	380,197	796,500	25,972	33,060	1.27
		G	PTech39+	4 3/4	2 11/16	20,600	2.563	380,197	732,800	25,972	34,320	1.32
		S	NC 38	5	2 1/8	15,902	2.000	488,825	842,400	33,392	26,503	0.79
		S	TSDS 38	5	2 1/8	25,060	2.000	488,825	947,700	33,392	41,770	1.25
	S	PTech39+	4 7/8	2 5/8	23,900	2.500	488,825	768,000	33,392	39,840	1.19	
	15.50	E	NC 38	4 3/4	2 7/16	11,504	2.313	322,775	708,000	21,086	19,174	0.91
		X	NC 38	5	2 7/16	13,221	2.313	408,848	708,000	26,708	22,035	0.83
		X	TSDS 38	5	2 7/16	19,830	2.313	408,848	796,500	26,708	33,060	1.24
		G	NC 38	5	2 1/8	13,221	2.000	451,885	842,400	29,520	22,035	0.75
		G	TSDS 38	5	2 1/8	25,060	2.000	451,885	947,700	29,520	41,770	1.41
		S	NC 38	5	2 1/8	15,902	2.000	580,995	842,400	37,954	26,503	0.70
S		TSDS 38	5	2 1/8	25,060	2.000	580,995	947,700	37,954	41,770	1.10	

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

TSDS and Ptech+ Values based on 135Ksi Material Yield Strength. API NC Values based on 120Ksi 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.