

# XT™

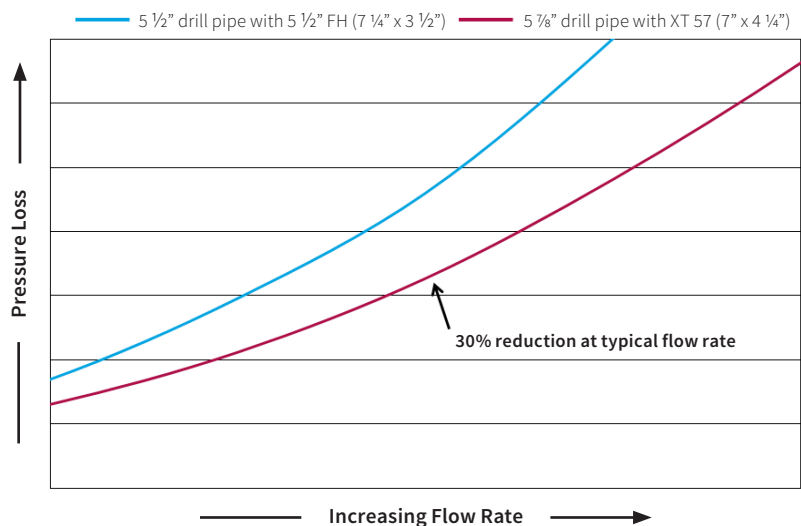
## eXtreme™ Torque Connections



### High-performance connections for extreme drilling conditions.

The Grant Prideco™ eXtreme Torque Connection is a patented, high-performance rotary-shouldered connection available for pipe sizes from 2 3/8 to 6 5/8 inches. Incorporating a second-generation double shoulder design with a proprietary thread profile, these connections provide improved hydraulics and more torque than connections of comparable dimensions. XT connections often allow for the use of larger drill pipe for a given hole size while maintaining fishability, and serve as the market reference for deepwater and extended reach drilling.

Pressure Loss Inside and Outside Drill Pipe in 8 1/2" Hole with 12 PPG Mud



# XT™ - eXtreme™ Torque Connections

## Proprietary Thread Profile

XT connections have a proprietary thread design with a larger root radius to maintain higher fatigue resistance than API connections, even at increased operational torque. Cold-rolled threads further enhance their ability to resist fatigue.

## Torque Optimized

The XT connection is designed to deliver a higher torque rating than first-generation double shoulder connections. Even in a more streamlined configuration, XT provides 70% more torque than API connections of comparable dimensions. This additional strength meets the required torque for drilling extended reach or in more performance-demanding environments.

## Streamlined for Performance

The XT connection's increased torsional strength allows for tool joint dimensional optimization more aligned with the pipe body torsional strength. It can be configured with a smaller OD and larger ID without sacrificing torsional capacity, which contributes to improved drill string hydraulics. XT connections facilitate the use of larger drill pipe in a set hole size, such as 5 7/8" drill pipe with XT 57 in 8 1/2" hole size. This provides improved hydraulic efficiency, better hole cleaning, and greater buckling strength without compromising torsional strength or fishability.



### Benefits

- 40% more torque than HT™, 70% more torque than API
- Improved hydraulics (*up to 50% reduction of internal pressure loss*)
- Enhanced buckling resistance
- True flush ID for better tool running

### Variations of XT Connections

	XTF™	uXT™	XT-M™
Improved Fatigue	●	●	
Higher Torque		●	
Pressure Rated			●
Interchangeability with XT	●	●	

Contact your Grant Prideco representative for more detailed information about our connection technologies.

### XT Drill Pipe Configurations

Pipe OD (in)	Nominal Weight (lb/ft)	Grade	Connection	Tool Joint OD (in)	Tool Joint ID (in)	Minimum MUT (ft-lb)	Maximum MUT (ft-lb)
3.500	13.30	S135	XT 38	4.750	2.563	15,600	18,800
3.500	15.50	S135	XT 38	4.750	2.438	17,100	20,500
4.000	14.00	S135	XT 39	4.875	2.563	18,500	22,200
4.000	15.70	S135	XT 39	4.875	2.563	18,500	22,200
4.500	16.60	S135	XT 46	6.250	3.250	35,000	42,000
4.500	20.00	S135	XT 46	6.250	3.250	35,000	42,000
5.000	19.50	S135	XT 50	6.500	3.750	38,400	46,100
5.000	25.60	S135	XT 50	6.625	3.500	45,300	54,300
5.500	21.90	S135	XT 54	6.625	4.000	41,600	49,900
5.500	24.70	S135	XT 54	6.625	4.000	41,600	49,900
5.875	23.40	S135	XT 57	7.000	4.250	47,100	56,500
5.875	26.30	S135	XT 57	7.000	4.250	47,100	56,500
6.625	25.20	S135	XT 69	8.500	5.250	83,400	100,100
6.625	27.70	S135	XT 69	8.500	5.250	83,400	100,100

Contact your Grant Prideco representative for further tool joint OD and ID configurations.