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## PERFORMANCE PROPERTIES

### 4" Heavy-Weight Drill Pipe w/5" OD w/3,1/2" IF TorqueMaster (TM238) Connections

#### Pipe Properties

OD	4.000 in.
Wall Thickness	0.719 in.
ID	2.563 in.
Pipe Body Area	7.409 in <sup>2</sup>
OD Area	12.566 in <sup>2</sup>
ID Area	5.157 in <sup>2</sup>
Section Modulus	5.225 in <sup>3</sup>
Polar Section Modulus	10.450 in <sup>3</sup>
Tube Yield Strength	55,000 psi
Torsional Strength	27.636 ft.lbs.
Tensile Strength	407,502 lbs.
Burst Pressure	17,295 psi
Collapse Pressure	16,214 psi

#### Tool Joint Properties

OD	5 in.
ID	2, 9/16 in.
Pin Length	27 in.
Box Tong	21 in.
Tool Joint Yield Strength	110,000 psi
Torsional Strength	25,173 ft.lbs.
Recommended Makeup Torque	14,303 ft.lbs
Tensile Strength	595,061 lbs.
BSR	2.69

#### Assembly Properties

Overall Length	31.0 feet
Est. Open Ended Displacement	.44 gal/ft
Est. Closed End Displacement	.71 gal/ft
Est. Capacity	0.27 gal/ft
Est. Weight per Foot	28.98 lbs/ft
Est. Weight per Joing	889 lbs

3,1/2" IF Torque Master (TM238) Connections are interchangeable with API 3,1/2" IF (NC38) Connections

New Pipe Specifications.

**Do not exceed 80%** of pipe yield, pressures or recommended makeup torque without approval from Caliber Energy Systems.