

4-3/4" OD X 2.250" ID DRILL COLLAR, SLICK, AISI 4145, 3-1/2" TS6

DRILL COLLAR BODY

Nominal OD (in)	4-3/4
Nominal ID (in)	2.250
Pipe Wall Thickness (in)	1.250
Surface Finish	SLICK
Grade	AISI 4145
Yield Strength (ksi)	110 MINIMUM
Tensile (ksi)	140 MINIMUM
Cross Sectional Area of Pipe Body (in ²)	13.745
Cross Sectional Area OD (in ²)	17.721
Cross Sectional Area ID (in ²)	3.976
Section Modulus (in ⁴)	9.992
Polar Section Modulus (in ⁴)	19.984
Momet of Inertia Drill Collar Body (in ⁴)	23.73
Polar Momet of Inertia Drill Collar Body (in ⁴)	47.46

DRILL COLLAR CONNECTION

Connection	3-1/2" TS6
OD (in)	4.750
ID (in)	2.250
Minimum Make-up Torque (lbs/ft)	7,000
Maximum Make-up Torque (lbs/ft)	8,800
BSR	2.350
Burst Pressure (psi)	22,500
Collapse Pressure (psi)	22,959

DRILL COLLAR ASSEMBLY

Adjusted Weight (lbs/ft)	43.50
Approx Average Length (ft)	31.00
Open End Displacement (gal/ft)	0.71
Closed End Displacement (gal/ft)	0.92
Fluid Capacity (gal/ft)	0.21
Drift Size (in)	2.125

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