



8-1/4" OD X 2.813" ID DRILL COLLAR, SPIRAL, AISI 4145, 6-5/8" REG

DRILL COLLAR BODY

Nominal OD (in)	8-1/4
Nominal ID (in)	2.813
Pipe Wall Thickness (in)	2.719
Surface Finish	SPIRAL
Grade	AISI 4145
Cross Sectional Area of Pipe Body (in ²)	47.241
Cross Sectional Area OD (in ²)	53.456
Cross Sectional Area ID (in ²)	6.215
Section Modulus (in ³)	54.382
Polar Section Modulus (in ³)	108.763
Momet of Inertia Drill Collar Body (in ⁴)	224.32
Polar Moment of Inertia Drill Collar Body (in ⁴)	448.65

DRILL COLLAR CONNECTION

Connection	6-5/8" REG
OD (in)	8.250
ID (in)	2.813
Torsional Strength (lbs/ft)	86,891
Tensile Yield Strength (lbs)	1,856,064
Minimum Make-up Torque (lbs/ft)	53,300
Maximum Make-up Torque (lbs/ft)	58,600
BSR	2.930

DRILL COLLAR ASSEMBLY

Adjusted Weight (lbs/ft)	158.73
Approx Average Length (ft)	31.00
Open End Displacement (gal/ft)	2.45
Closed End Displacement (gal/ft)	2.78
Fluid Capacity (gal/ft)	0.32
Drift Size (in)	2.688

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