

Data Sheet - Orientear Mechanical & Environmental Specification

Mechanical Specification

Standard Tool Dimensions, Connections and Mechanical Specifications							
Drill Collar OD x ID, Inches	Tool Joints ⁽¹⁾	Rec. Make-Up Torque (lbf.ft)	Equivalent Collar Stiffness (OD x ID) and Percentage Strength of Standard DC		Max DLS (deg/ft) Sliding & Rotating ⁽²⁾	Max Flow Rate USGPM ⁽³⁾	Delta Press Across Tool psi (Water) at Max. Flow
2.88 x 2.20	Geolink	2,500	2.66 x 1.50	71	1.0 / 0.5	115	150
3.125 x 2.38	Geolink	3,000	2.96 x 2.12	85	1.0 / 0.5	240	300
3.50 x 2.50	Geolink	3,500	3.45 x 2.38	98	1.0 / 0.5	240	300
4.75 x 2.81	3-1/2" IF	9,900	4.75 x 2.81	100	0.3 / 0.15	480	60
6.25 x 2.81	4" API IF	16,200	6.25 x 2.81	100	0.21 / 0.1	480	60
6.25 x 3.25	4" API IF	16,200	6.20 x 2.81	97	0.21 / 0.0	800	64
6.75 x 3.25	4-1/2" API IF	25,800	6.71 x 2.81	98	0.21 / 0.1	800	64
8.00 x 3.75	6-5/8" API Reg	47,000	7.93 x 2.81	97	0.14 / 0.08	1100	39
9.50 x 4.25	7-5/8" API Reg	62,000	9.42 x 2.81	97	0.07 / 0.04	1200	29

- (1) Geolink uses own proprietary tool joints for Ultra-Slim and Ultra-Lite equipment
- (2) Figures for Ultra-Slim and Ultra-Lite equipment are based on Geolink calculations. Figures for sizes from 4-3/4" upwards are for guidance only and are based on typical drill collar configurations.
- (3) Mud sand content should be maintained below 0.5% for continuous operation at the maximum flow rate.

Intermediate sizes, non-standard tool joints and high flow rate configurations (up to 1500 gpm in 9-1/2" OD) are available on request.

Environmental Specification

- Pressure limit** 15,000 psi. Can be increased to 20,000 psi by upgrading to high pressure housings.
- Temperature Limit** 0 - 150 Deg. C operating. Higher rated equipment available on request.
- Shock Limit** 1000g/0.5millisecond.
- Vibration Limits** 20g RMS 30-300 Hz Random
30g 50-300 Hz Sine
- Mud Condition** Recommended Sand Content <0.5%. Higher levels can be sustained under controlled circumstances - contact Geolink for details.
- LCM Limit is 30lb/bbl Medium Nuy Plug (evenly mixed)
- No limitation for Mud Weight or Solids as long as using conventional weighting agents, etc. and as long as mud is evenly mixed.