

180C BLDC DRIVE

"The Heart of the System"



HIGHLY INTELLIGENT

The motor's onboard sensors provide feedback that our intelligent DCM uses to detect and correct errors in poppet travel.

INCREDIBLY EFFICIENT

The motor has only two moving parts and is designed to operate entirely within hydraulic lubricant, which extends the bearing life and conducts heat from the motor. This high efficiency increases battery life and greatly reduces heat generation, leading to improved performance at higher temperatures and over-all cost savings.

EXTREMELY RELIABLE

Our design is monolithic and constructed of only steel components for uniform thermal expansion. This maintains on-axis alignment over a wide temperature range for consistent, trouble free performance.

EASY TO SERVICE

The system is modular, so individual components can be easily replaced, further reducing servicing time and parts costs.

RUGGEDLY DESIGNED

This precision DC motor has the highest power density in the industry and is exceptionally well suited to rigorous downhole applications. The high torque capability of the motor generates a tenfold improvement in poppet seating force over solenoid springs.

BRUSHLESS DC MOTOR

Battery Life	~450 hours @ 0.8 sec DR, ~700 hours @ 1.5 sec DR
Average Power	1.04 watts
Push-Pull Force	~150 lbs
Longevity	~3000 Hours
Holding Force	Very High
EM Interference	Low
Service Time	2 Hours
Max. Operating Temperature	180C