Electric Toe Sliding Sleeve

Introduction

The Electric Toe Sliding Sleeve is designed to provide circulation path for smart cementing and fracturing system.The pressure sensor of sliding sleeve converts pressure signal received from surface to electric signal. The execution unit (motor + oil pump) is controlled by the opening instruction of the mainboard.The condition of Electric sliding sleeve can be determined by the feedback information and actual fluid condition. Electric sliding sleeve system can also be used for other non-cable completion operation to establish circulation path for downhole string

Features and Benefits

- High compatibility with large ID
- Controlled by typical pressure wave code to prevent false start
- Execution unit consists of small-volume and large force motor-pump assembly
- Large battery capacity to support long-term stand-by
- Large ID to ensure smooth circulation after fracturing operation
- Equipped with mechanical rupture disk to provide another method of opening
- Key components of smart cementing and completion

Specification

OD (mm)	146~212
Length (mm)	3964
ID (mm)	114.3
Temp. (℃)	120/150
Pressure (MPa)	140
Cross sectional area of piston chamber (mm^2)	6182
Power supply to E-magnetic valve (VDC)	12