

PRIME Release Subsystem

To enable controlled release of stuck toolstrings

Applications

- Logging toolstrings in cased and open hole
- Tractor conveyance and Powered Mechanical Applications

Features and Benefits

- Release energized through wireline or battery
- Extended battery life
- High torque design enabling usage with milling applications
- Real time in-well configuration to adapt for changes in work scope
- Can release even if cable is damaged
- QHSE; reduces personnel exposure to cable breakage at surface due to high overpull
- Improved operational efficiency; less runs, increased measurements per run
- More efficient retrieval/fishing due to clean fishing neck after release

PRIME Release Sub System – The Release Sub System (RSS) has been developed to enable controlled release of stuck toolstrings. Multiple RSS's can be utilized, placed at the top of the toolstring or at relevant positions along its length enabling partial retrieval. The PRIME RSS has integrated PRIME node electronics, enabling full PRIME communication and in-well functionality to PRIME tools positioned below, and in-hole configurability for release parameters. It also provides real-time release status based on sensor reading and battery life measurement.

RSS release is activated by telemetry commands, voltage variation or memory timer mode, enabling controlled release even with damaged cable.

| | RSS 218 | PRIME RSS 212 | RSS 318 |
|---------------------------|------------------------|----------------------|----------------------|
| Tool body OD | 2.125 in. (54.00 mm) | 2.5 in. (63.50 mm) | 3.125 in. (79.38 mm) |
| Length | 3.41 ft (1.04 m) | 3.63 ft (1.10 m) | 3.9 ft (1.19 m) |
| Min restriction ID | 2.5 in. (63.50 mm) | 2.625 in. (66.68 mm) | 3.25 in. (82.55 mm) |
| Pressure rating | 15,000 psi (1,034 bar) | | |
| Temperature rating | 350°F (177°C) | | |
| Fishing neck | 1.38 in. (35.1 mm) | 1.75 in. (44.5 mm) | 1.75 in. (44.5 mm) |