

DCR

Digital controlled release tool

APPLICATIONS

- Critical interventions where the ability to release the toolstring must be guaranteed
- Highly deviated, difficult, or dirty wells where a drop cutter may be unreliable
- Release from stuck tools in all conditions, recovering wire and tools above DCR

ADVANTAGES

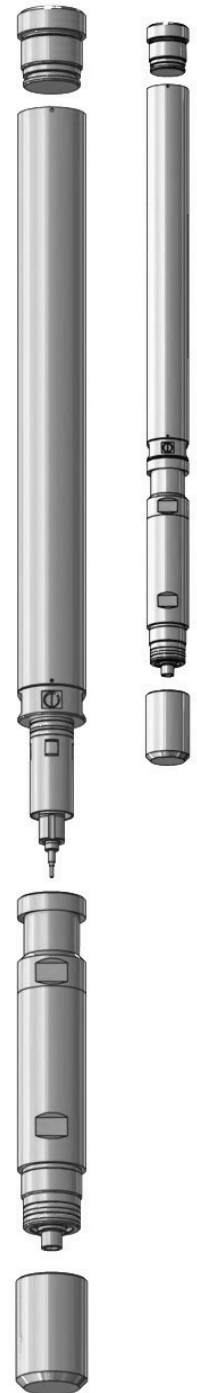
- Release action commanded by operator or fail-safe timer
- Fail-safe release timer may be activated on command, stopped, reset, and restarted as required
- Fish terminates in standard fishing neck with both internal and external profiles providing clean access to the stuck string for subsequent fishing runs. The DCR may be run in any position within the digital slickline toolstring, allowing sure release of valuable tools if stuck.
- No wire left in the hole
- Can be run anywhere in the toolstring
- Avoid opening pressure control equipment (PCE) at surface as needed to run a drop cutter

The digital controlled release tool (DCR) provides operator commanded or timed fail-safe release of the LIVE* digital slickline services toolstring, with complete recovery of the digital slickline cable and toolstring above the separation point in the event the toolstring becomes stuck in hole. The released string and DCR sub left in hole terminate in a standard fishing neck with both external and internal profiles providing clean access to the stuck string for subsequent fishing runs. The DCR may be run in any position within the digital slickline toolstring, allowing sure release of valuable tools if stuck.

The DCR is actuated by one of two options: (1) Operator command from surface, when and only when it is decided to abandon attempts to free the string, or (2) by fail-safe timed release. Once actuated, the timer counts down 24 hours and releases the tool even if communication with surface is lost. The timer can be stopped, reset, and restarted as required during the job.

Technical Specification

Temperature rating	302 degF [150 degC]
Pressure rating	15 kpsi [103.4 MPa]
Length	22.8 in [580 mm]
Length of fishing section	6.9 in [176 mm]
Outside diameter	1 ¹¹ / ₁₆ in [43 mm]
Weight	11.0 lb [5.0 kg]
Service	H ₂ S service
Top thread	1 ³³ / ₆₄ in 12 Stub ACME (BEST) female
Bottom thread	1 ³³ / ₆₄ in 12 Stub ACME (BEST) male
Fishing neck internal	1.062 in (engage with 1½-in GS pulling tool)
Fishing neck external	Modified 1.75 in (engage with 2½-in JDC pulling tool)



DCR tool.