DATA SHEET

HALLIBURTON

UNCONVENTIONAL COMPLETIONS | FRAC SLEEVE SYSTEMS

RapidStart® Initiator Apex™ toe sleeve

Helps support a more consistent first-zone flow path without additional intervention

FEATURES

- Large ID supports HWE® cementing plugs and other high-strength cementing wiper plugs
- Threaded ports accept SoluPort degradable protectors to prevent sleeve interference
- Dual rupture discs selected in 500-psi increments with a nominal ±2% rating tolerance
- Positive locking mechanism helps retain the sleeve in the open position
- Pressure testing of each seal after assembly helps confirm internal chamber integrity

BENEFITS

- Helps reduce the requirement for a coiled tubing run with tubing-conveyed or wireline perforating
- Facilitates casing tests below the sleeve opening pressure
- Supports improved consistency and repeatability of opening pressure

APPLICATIONS

The RapidStart® Initiator Apex™ toe sleeve supports the following applications:

- Multi-zone fracture operations and plug-and-perf operations
- Long-string or liner completions in vertical and high-deviation wells
- Cemented and openhole completions

Overview

The RapidStart® Initiator Apex™ toe sleeve uses pressure operation to help establish an interventionless initial flow path from the tubing/casing ID to the OD for multi-zone fracturing or plug-and-perf operations. The sleeve is designed to activate when absolute pressure applied to the ID exceeds the preset rupture disc value. When used with SoluPort® degradable protectors, the sleeve supports cement placement while maintaining tool functionality.

How it works

The RapidStart Initiator Apex toe sleeve relies on an atmospheric chamber and operates through absolute internal pressure. Prior to running the completion, engineers can customize the sleeve to help align with opening requirements defined by well hydrostatics, other pressure-operated tools, and casing pressure limits.

When applied pressure reaches the target value, the rupture disc bursts, an internal sleeve shifts, and flow redirects through ports in the outer case. Once opened, the sleeve can support first-zone stimulation or provide a flow path for pump-down operations.

Tight rupture disc tolerances support a narrow operating window for tailored, pressure-reliant completion designs. Redundant discs help preserve tool integrity and reduce the risk of functional loss.



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