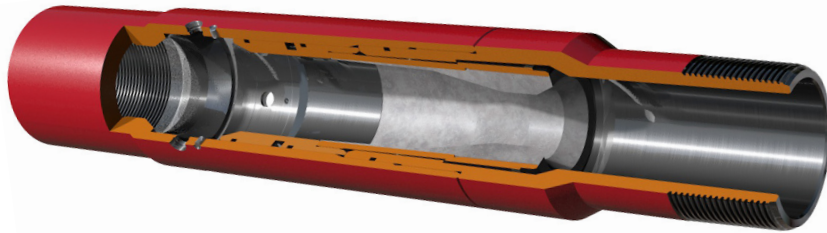


RapidStage® Systems

SINGLE-AND MULTI-ENTRY SLEEVE SYSTEMS FOR ACCURATE STIMULATION PLACEMENT WITHOUT INTERVENTION



RapidStage® systems optimize the completion of multistage wellbores by enabling highly accurate placement of stimulation treatments without intervention. This helps ensure the stimulation treatment covers the targeted areas in the wellbore and maximizes the stimulated reservoir area. RapidStage systems can be run into a wellbore using a casing string to surface or on liner hanger systems to enable a reliable, trouble-free cemented or openhole installation.

The RapidStage SE (Single-Entry) fracturing system incorporates the proven RapidStage SE sleeve, RapidStart® Initiator or Initiator CT (Casing Test) sleeve, and a means of sleeve isolation. Halliburton offers several isolation options for a variety of reservoir conditions.

To activate RapidStage SE sleeves, frac balls are dropped in sequence, smallest to largest, from surface using the Halliburton Pneumatic Ball Launcher. The frac balls seal on a corresponding millable baffle, shifting the sleeve open, diverting flow through ports in the sleeve and providing isolation from previous stages.

After stimulation, clean-up is assisted by flowing all lower zones simultaneously.

The RapidStage® ME (Multi-Entry) fracturing system provides operators with enhanced options for completing multi-interval wellbores to enable highly accurate placement of fractures, with minimal or no intervention.

By allowing multiple entry points per target fracturing stage, RapidStage ME sleeves allow operators to mimic traditional plug and perf operations with the efficiency of a ball-drop fracturing sleeve system.

The RapidStage ME system includes both the RapidStage ME and SE sleeves within a single interval. The exit ports of the RapidStage sleeves can be customized to match whatever conditions the job may require.

The application of RapidBall™ dissolvable ball technology helps eliminate the need for costly wellbore cleanout operations.

Once fracturing is completed, well cleaning is assisted by flowing all lower zones simultaneously.

FEATURES

- » Over 50 individual stages
- » Can be used with cement or openhole isolation
- » Positive locking engagement when sleeve is opened
- » 10,000 psi in 350°F rated standard service
- » HP/HT and sour service available in SE sleeve
- » Multiple sleeves per target stage in ME sleeve
- » Up to 100 bpm fracturing rates
- » Customizable exit ports
- » Anti-rotation feature allows milling of baffle without opening sleeve for contingency planning

BENEFITS

- » Enables continuous pumping of multistage stimulation treatments
- » Reduces completions OPEX
- » Enhanced reservoir contact (ME sleeve)
- » Decreases water and chemical usage
- » Minimizes over displacement
- » If used with RapidBall dissolvable balls, no intervention is required

For more information on RapidStage® systems, contact your local Halliburton representative or visit us on the web at www.halliburton.com

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

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