

COMPLETION TOOLS

Delta Stim® Initiator

Designed for Selective Multi-Zone Fracturing or Acidizing Through the Completion

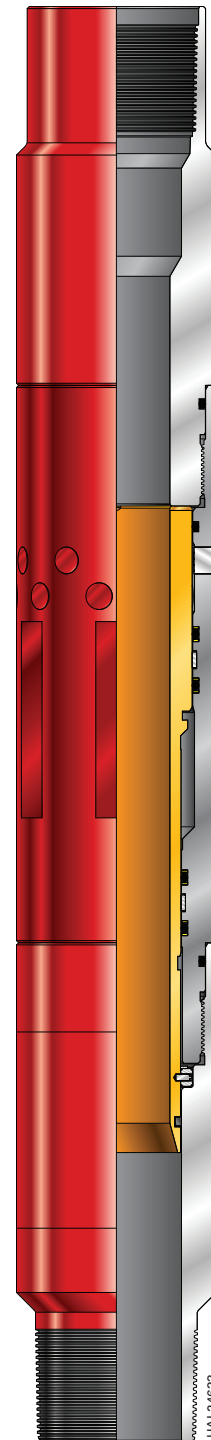
Halliburton's Delta Stim® initiator operates as the toe opening sleeve in a Delta Stim completion service. The Delta Stim initiator sleeve is designed to allow for an intervention-less stimulation treatment when used in conjunction with Delta Stim sleeves in Halliburton's Delta Stim® completion service. Delta Stim initiator is activated using tubing/casing pressure that exceeds a predetermined shear pinned value. The initiator utilizes an air chambered sleeve that operates solely off of absolute tubing pressure. Prior to running the completion, the initiator is pinned according to opening requirements dictated by hydrostatics of the well, other tubing pressure operated tools, and casing pressure ratings. Opening the initiator's internal sleeve allows flow to be diverted through ports in the outer case. Once opened, the initiator can be used for stimulation of the first zone and/or as the flow path to pump the first ball down to the first Delta Stim sleeve. After stimulation, clean up is assisted by flowing all lower zones simultaneously. This tool has been successfully run in cemented applications in both horizontal and vertical wells.

Features

- Intervention-less completion
- Tubing/casing internal pressure activation
- 15,000 psi absolute pressure rating
- 10,000 psi differential rating
- Positive locking engagement when sleeve is opened
- Standard service

Benefits

- Eliminates use of perforating gun run
- Allows for intervention-less opening of completion string toe
- Provides flow path to pump first phenolic ball onto Delta Stim Lite sleeve or ball-drop Delta Stim sleeve baffle



Delta Stim® Initiator

Delta Stim® Initiator Specifications

Casing Size in.	Tool OD in. (mm)	Tool ID in. (mm)	Minimum Open Hole Size in. (mm)	Maximum Temperature °F (°C)	Maximum Absolute Pressure psi (kPa)	Maximum Differential Pressure psi (kPa)	Maximum Pump Rate (bpm)
4-1/2	5.60 (142.24)	3.00 (76.20)	5.875 (149.23)	350 (177)	15,000 (103.421)	10,000 (68.948)	100
5-1/2	6.50 (165.10)	4.00 (101.60)	6.875 (174.63)	350 (177)	15,000 (103.421)	10,000 (68.948)	100

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Size in.	Part Number	Description	Threads
4-1/2	101671248	Delta Stim Initiator	Blank
4-1/2	101668549	Delta Stim Initiator	8 Rd
5-1/2	101720411	Delta Stim Initiator	Blank
5-1/2	101720412	Delta Stim Initiator	8 Rd
5-1/2	101723039	Delta Stim Initiator	BTC

Delta Stim® Initiator Shear Pin

Delta Stim Initiator Size	Pin Part Number	OD Size in. (mm)	Length in. (mm)	Number of Pins Available
4-1/2	100008025	0.189 (4.80)	0.385 (9.78)	40
5-1/2				36

For more information on how the Delta Stim® Initiator can help you with selective multi-zone operations, contact your Halliburton representative or e-mail service.tools@halliburton.com.

www.halliburton.com

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