

Fractal Flex

Multistage stimulation perforating system

APPLICATIONS

- Vertical and horizontal wells requiring multistage stimulation

BENEFITS

- Improved safety with advanced initiation system using integrated real-time addressable communication and mechanical ballistic interrupt
- Increased efficiency through reduced rig-up time, decreased gun string length, and higher reliability
- Enhanced flexibility from the use of any industry-standard drop-in charges to fit the completion strategy

FEATURES

- The initiation system includes the only addressable mechanical ballistic interrupt in the industry, which is controlled from surface
- Guns can be transported from the shop to the wellsite while fully loaded and armed, with the highest level of safety and ready to run in hole[†]
- The availability of multiple gun lengths, from 1 to 5 ft, enables running up to 40 guns in a single descent
- Plug-in design eliminates having to make electrical connections at the wellsite
- Improved electrical connectors prevent failure-prone crimped wire terminations
- Gun-to-gun connection design eliminates wiring and seal issues while reducing intercarrier length

The Fractal Flex* multistage stimulation perforating system reengineers the conventional perforating gun system to create a fit-for-purpose modular design that significantly improves the safety, reliability, and efficiency of multistage perforating operations while enhancing charge selection flexibility.

Only minimal assembly is necessary on location. All components are supplied in plug-and-play subassemblies. Guns can be fully loaded and armed in the shop,[†] eliminating the need for field arming. Because the Fractal Flex system incorporates redesigned electrical connections and gun-to-gun connections that eliminate wiring and seal issues while reducing intercarrier length, rig-up height is reduced while efficiency and reliability are improved.

Specifications

	Fractal Flex System
Outside diameter, in	3⅞
Shots per foot (spf), phasing, °	6, 60
Min. casing size, in	4½
Gun lengths, ft	1, 2, 3, 5
Temperature rating, degF [degC]	340 [171]
Pressure rating, psi [MPa]	18,000 [124]



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[†] As permitted by US DOT EX2014011004 or EX2009080313 and local regulations.