

Infinity II

Fully dissolvable plug-and-perf system



Rated to 7,500 psi
[52 MPa]



Rated to 250 degF
[121 degC]

APPLICATIONS

- Multistage stimulation in all lithologies
- Cased hole vertical, deviated, and horizontal wells
- Extended-reach wells and underpressured reservoirs

BENEFITS

- Enables plug placement anywhere in the well because no preinstalled plug receptacles are required
- Simplifies well construction and enables real-time decisions about stage length and location
- Dissolves completely
 - Eliminates milling
 - Lowers costs
 - Streamlines operation
 - Eliminates risk and cost of stuck plugs
 - Decreases time to production
 - Enables real-time flexibility for stage lengths and locations
 - Leaves full casing bore for production or subsequent interventions
 - Enables immediate flowback or production through large inner diameter before system fully dissolves

FEATURES

- Based on Schlumberger patented high-strength, impact-resistant ELEMENTAL* degradable technology for fracturing at higher pressures and across longer intervals
- Metal-to-metal seal to ensure zonal integrity without leaving elastomers in the well after dissolution
- Dissolvable plugs deployed in standard wireline perforating operations and dissolvable balls conveyed at the beginning of stimulation activity via pumpdown operations

Infinity II* fully dissolvable plug-and-perf system advances multistage well delivery by enabling proven zonal isolation and longer lateral lengths without the costs and challenges of poststimulation milling. Building on the success of our first-generation dissolvable technology, this system's more complete dissolution makes it the industry's most efficient technology for plug-and-perf applications.

The system incorporates degradable plugs with patented metal-to-metal seals to reliably isolate zones and then fully and predictably dissolve, leaving the full bore open. The plugs can be set anywhere in the wellbore, enabling real-time decisions about stage lengths and locations because no preinstalled receptacles are required.

Access the full bore—without milling

The actuation balls and plug assemblies are composed of the patented and field-proven aluminum-based ELEMENTAL technology, enabling the system to degrade predictably and completely to a microscale powder—without milling.

Immediately after stimulation the degradable ball can be unseated, leaving a large open bore (2.33 in) for immediate flowback or production. Over subsequent days or weeks, more of the system components dissolve, ultimately leaving the well with fullbore access, which maximizes flow potential and simplifies subsequent well operations.

Furthermore, the plug is designed to degrade from the inside out, precluding large plug pieces from migrating through the wellbore.

Expedite time to market and improve ROI

To further save time during plug-and-perf operations, the Infinity II system can be run with KickStart* rupture disc valve technology to eliminate the need for CT deployment during the first stage.



Infinity II fully dissolvable plug-and-perf system.

By eliminating the need for milling, the system also enables freedom of well design without the constraint of how deep a milling system can efficiently function. Instead, wells can be designed to suit the reservoir—and to maximize reservoir contact and estimated ultimate recovery.

Rely on proven, fit-for-purpose technology

The high-strength, impact-resistant alloy is stronger than conventional alloys. It withstands differential pressures up to 7,500 psi [52 MPa] and temperatures up to 250 degF [121 degC].

Improve reliability with a dissolvable antipreset mechanism

The plug is equipped with an antipreset mechanism consisting of a fully dissolvable ring that shears at 5,000 lbf [22,241 N].

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Infinity II System Specifications

Nominal casing size, in	4.5
Casing weight, lbm/ft [kg/m]	11.6 [17.26] or 13.5 [20.09]
Max. tool run-in-hole OD, in [mm]	3.62 [91.95]
Min. tool ID, in [mm]	2.33 [59.18]
Casing joints per plug	Unlimited
Max. differential pressure across ball and plug, psi [MPa]	7,500 [52]
Max. temperature of degradability, degF [degC]	250 [121]
Fluid for dissolution	Any water-based fluid
Ball diameter, in [mm]	2.54 [64.52]
Plug length, in [mm]	10.79 [274.23]
Plug flow area (after ball dissolves), in ² [mm ²]	4.26 [2,748.38]

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