

infinityFracX™

Dissolvable Dart Activated Sliding Sleeve Stimulation System

Technical Specifications

infinityFracX™ is an unlimited-stage, interventionless, full-drift stimulation port featuring a **dissolvable activation dart** rated to 15,000 psi differential working pressure.

Because the activation dart is dissolvable the wellbore production will be completely unrestricted and there will be no obstructions left in the well to limit future remedial operations such as cleanouts or recompletions. Stimulation port sleeves, having no dart present after initial completion operations, may be closed with coiled tubing or wireline should the need arrive to shut off a gas or water zone or perform a full well recompletion operation. Sleeves may also be permanently locked in the open position, if desired.

Features

- For SPOE wells each stimulation port is opened and isolated by a dissolvable dart and ball assembly dropped and displaced from surface with the stimulation pumps.
- For MPOE (i.e. clustered or limited-entry) wells multiple stimulation ports are opened and isolated by a single dissolvable dart and ball assembly dropped and displaced from surface. Extreme limited-entry (XLE) port sizing is available.
- stimulation stages are opened and treated sequentially starting from the deepest stages and moving to shallower stages as the stages are completed.
- Dissolvable dart and ball assemblies are all the same inner and outer diameter.
- Up to 250 SPOE or MPOE treatment stages can be placed with up to 20 MPOE entry points per stage.
- Wear resistant materials integrated with a proprietary erosion reducing geometry eliminates washouts, missed engagements and missed isolations.
- Engineered biasing force allows darts to latch at stimulation treatment pump rates - up to 60 bpm (10 m³/min).
- Compatible with offshore and onshore well designs and most upper completion designs.
- No extra flushes required between activation darts and treatment fluids.
- HPHT compatible (325 F, 15,000 psi differential rating)
- The infinityFracX™ stimulation ports can be isolated by annulus cement, or Open-Hole packers. The stimulation ports are opened by applying uphole wellbore pressure after the dissolvable dart and ball assembly has mated to its corresponding sleeve(s). Once the stimulation port is opened a stimulation can be placed at that interval. After that placement is completed the next shallower stage's dart is dropped from surface and the same steps repeated. After stimulation operations are completed the well may be produced without any further intervention.



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Call **1-844-4NOCOIL**

Email **sales@8sigmaes.com**

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Benefits

- Increase stage count up to 250 stages and up to 20 clusters per stage.
- Increase stimulation density and Stimulated Rock Volume with more proppant and acid placed per linear length.
- Higher well production and Estimated Ultimate Recovery.
- Substantial reduction in completion costs and reduction in pumping times.
- Longer laterals and faster stimulation operations.
- Cemented or open-hole packer compatible.
- InfinityFracX™ stimulation ports work with current well design including cement program, shoe track equipment, centralizers.
- stimulation ports can be torqued through and made up with top drive and CRT or casing tongs.
- Reduced water requirements.
- Lower surface pressures and wellhead, stimulation-iron pressure ratings vs. ball drop completions.
- Dissolvable darts all have the same inner and outer diameter, i.e. no graduated balls or ball seats required.
- Lower stimulation horsepower requirements and surface pressures vs. ball drop completions.
- No coiled-tubing or wireline is required to open the stimulation ports.

Tool Nominal Size	4.500, 5.000, 5.500 inch	114.3, 127.0, 139.7 mm
Casing Weight	All available	All available
Tool Connection	As requested	As requested
Burst Rating	As per casing body specs	As per casing body specs
Collapse Rating	As per casing body specs	As per casing body specs
Tensile Rating	As per casing body specs	As per casing body specs
Torsional Strength	As per casing cnx specs	As per casing cnx specs
Maximum Body OD	5.250 in, 5.750 in, 6.250 in	133.3 mm, 146.01 mm, 158.75
Min. Tool ID before stimulation	100% of API Drift	100% of API Drift
Min. Tool ID 1-30 days after	95% of API Drift	95% of API Drift
Min. Tool ID 100 days after	100% of API Drift	100% of API Drift
Maximum Temperature	325° F	163°C
Length (incl. pin cnx)	33 inch	0.85 m
Max Dart Differential Pressure	15,000 psi	103 MPa
Opening Pressure	1500 - 2750 psi	10,300 - 19,000 kPa
Port Flow Area Sizing	As requested	As requested