

FracXion Micro



Fully composite frac plug

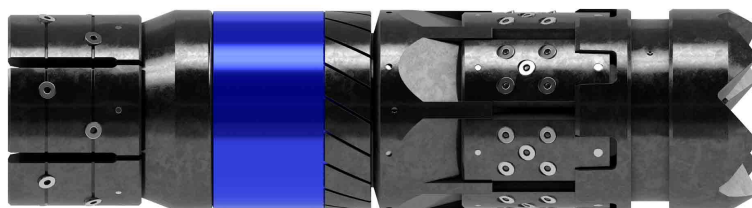
Consistent, repeatable plug-and-perf fracturing and less time to mill to TD

Applications

Plug-and-perf operations

Features

- The central bore is closed with a ball while the zone above the plug is fractured. The plug can be run with the ball in place or the ball can be dropped from surface when the plug is in position. One benefit of using a ball is to enable flowback from below the plug if required (e.g., to mitigate a screenout).
- Proprietary angled antiextrusion backup system provides 360° element support.
- Optimized slip material and design minimize hardened material and reduce milling time.
- Buttons are made of sintered metal.
- Proprietary slip design prevents button chipping and plug slipping.
- Integrated shear-ring design simplifies assembly onto the adapter kit that connects to standard setting tools.



How FracXion Micro frac plugs improve plug-and-perf completions

FracXion Micro™ fully composite frac plugs are set using wireline, coiled tubing, or pipe. They span the full casing weight range.

Antipreset measures increase confidence at higher run-in-hole speeds, saving time. An optional pumpdown ring reduces fluid bypass, saving fluid as well as time.

FracXion Micro plugs can be integrated with the Unity™ integrated frac plug and perf gun system, which eliminates the potential for human error and operational delays.

These frac plugs are designed for milling out with minimal torque and circulating debris to surface at lower circulation rates to protect your fractures. They use a packer element compound that drills out into small chunks, which are easily swept to surface. The hollow metal button slips are designed to shatter during milling, reducing metal content and debris sizes.

Special clutch features at the top and bottom of the plugs prevent spinning between plugs, reducing milling time to total depth—even in the longest laterals.

FracXion Micro



FracXion Micro Specifications

Specifications	4.5 in, 10,000 psi, 225 degF	4.5 in, 8,000 psi, 275 degF	5 in, 10,000 psi, 225 degF
Casing size	4.5 in [114 mm]	4.5 in [114 mm]	5 in [127 mm]
Casing weight	11.6–15.1 lbm/ft [17.3–22.5 kg/m]	11.6–15.1 lbm/ft [17.3–22.5 kg/m]	18.0–23.3 lbm/ft [26.8–34.7 kg/m]
Plug OD	3.5 in [89 mm]	3.5 in [89 mm]	3.8 in [97 mm]
Min. ID	0.9 in [23 mm]	0.9 in [23 mm]	0.9 in [23 mm]
Ball diameter	1.25 in [32 mm]	1.25 in [32 mm]	1.25 in [32 mm]
Length	13.6 in [346 mm]	13.6 in [346 mm]	14.8 in [376 mm]
Set length*	10.5 in [266 mm]	10.5 in [266 mm]	11.6 in [294 mm]
Plug weight	6.4 lbm [2.9 kg]	6.4 lbm [2.9 kg]	8.2 lbm [3.7 kg]
Setting force**	20000 lbf [89000 N]	20000 lbf [89000 N]	20000 lbf [89000 N]
Stroke length**	4 in [101 mm]	4 in [101 mm]	4 in [101 mm]
Pressure rating	10000 psi [68948 kPa]	8000 psi [55158 kPa]	10000 psi [68948 kPa]
Temperature rating	225 degF [107 degC]	275 degF [135 degC]	225 degF [107 degC]
Pumpdown ring option	Yes	Yes	Yes

FracXion Micro Specifications

Specifications	5 in, 8,000 psi, 275 degF	5.5 in, 17–23 lbm/ft, 10,000 psi, 225 degF	5.5 in, 17–23 lbm/ft, 10,000 psi, 175 degF LT Model
Casing size	5 in [127 mm]	5.5 in [140 mm]	5.5 in [140 mm]
Casing weight	18.0–23.3 lbm/ft [26.8–34.7 kg/m]	17.0–23.0 lbm/ft [25.3–34.2 kg/m]	17.0–23.0 lbm/ft [25.3–34.2 kg/m]
Plug OD	3.8 in [97 mm]	4.4 in [111 mm]	4.4 in [111 mm]
Min. ID	0.9 in [23 mm]	1.25 in [32 mm]	1.25 in [32 mm]
Ball diameter	1.25 in [32 mm]	1.5 in [38 mm]	1.5 in [38 mm]
Length	14.8 in [376 mm]	16.3 in [414 mm]	14 in [355 mm]
Set length*	11.6 in [294 mm]	13.1 in [333 mm]	11 in [279 mm]
Plug weight	8.2 lbm [3.7 kg]	12.3 lbm [5.6 kg]	12.3 lbm [5.6 kg]
Setting force**	20000 lbf [89000 N]	33000 lbf [147000 N]	45000 lbf [200169 N]
Stroke length**	4 in [101 mm]	4 in [101 mm]	5.75 in [146 mm]
Pressure rating	8000 psi [55158 kPa]	10000 psi [68948 kPa]	10000 psi [68948 kPa]
Temperature rating	275 degF [135 degC]	225 degF [107 degC]	175 degF [79 degC]
Pumpdown ring option	Yes	Yes	Yes

FracXion Micro



FracXion Micro Specifications

Specifications	5.5 in, 17–23 lbm/ft, 8,000 psi, 275 degF	5.5 in, 23.0–26.8 lbm/ft, 10,000 psi, 225 degF	5.5 in, 23.0–26.8 lbm/ft, 8,000 psi, 275 degF
Casing size	5.5 in [140 mm]	5.5 in [140 mm]	5.5 in [140 mm]
Casing weight	17.0–23.0 lbm/ft [25.3–34.2 kg/m]	23.0–26.8 lbm/ft [34.2–39.9 kg/m]	23.0–26.8 lbm/ft [34.2–39.9 kg/m]
Plug OD	4.4 in [111 mm]	4.19 in [106 mm]	4.19 in [106 mm]
Min. ID	1.25 in [32 mm]	1.21 in [31 mm]	1.21 in [31 mm]
Ball diameter	1.5 in [38 mm]	1.44 in [37 mm]	1.44 in [37 mm]
Length	16.3 in [414 mm]	16.3 in [414 mm]	16.3 in [414 mm]
Set length*	13.1 in [333 mm]	13.1 in [333 mm]	13.1 in [333 mm]
Plug weight	12.3 lbm [5.6 kg]	12.2 lbm [5.5 kg]	12.2 lbm [5.5 kg]
Setting force**	33000 lbf [147000 N]	33000 lbf [147000 N]	33000 lbf [147000 N]
Stroke length**	4 in [101 mm]	4 in [101 mm]	4 in [101 mm]
Pressure rating	8000 psi [55158 kPa]	10000 psi [68948 kPa]	8000 psi [55158 kPa]
Temperature rating	275 degF [135 degC]	225 degF [107 degC]	275 degF [135 degC]
Pumpdown ring option	Yes	Yes	Yes

FracXion Micro Specifications

Specifications	6 in, 10,000 psi, 225 degF	6 in, 8,000 psi 275 degF
Casing size	6 in [152 mm]	6 in [152 mm]
Casing weight	23.0–26.0 lbm/ft [34.2–38.7 kg/m]	23.0–26.0 lbm/ft [34.2–38.7 kg/m]
Plug OD	4.85 in [123 mm]	4.85 in [123 mm]
Min. ID	1.25 in [32 mm]	1.25 in [32 mm]
Ball diameter	1.5 in [38 mm]	1.5 in [38 mm]
Length	18 in [457 mm]	18 in [457 mm]
Set length*	15.1 in [383 mm]	15.1 in [383 mm]
Plug weight	24.9 lbm [11.3 kg]	24.9 lbm [11.3 kg]
Setting force**	33000 lbf [147000 N]	33000 lbf [147000 N]
Stroke length**	4 in [101 mm]	4 in [101 mm]
Pressure rating	10000 psi [68948 kPa]	8000 psi [55158 kPa]
Temperature rating	225 degF [107 degC]	275 degF [135 degC]
Pumpdown ring option	Trial	Trial

All specifications are subject to change without notice.

* Set length is calculated in nominal lightweight casing. Actual set length will vary because of casing geometry and manufacturing tolerances.

** Nominal values