

Diamondback

Composite frac plug



Rated to 10,000 psi
[68.95 MPa]



Rated to 177 degC
[350 degF]

APPLICATIONS

- Vertical, deviated, and horizontal wells
- Zonal isolation during multistage stimulation operations

BENEFITS

- Improves milling speed and reduces debris size
- Minimizes risk of presetting
- Minimizes fluid costs and environmental impact when used with pumpdown ring

FEATURES

- Optional button slips
- Interlocking components to prevent slipping or spinning during removal
- Optimized slip material and design to minimize the amount of hardened material and improve milling time
- Proprietary slip design to keep wickers from chipping or cracking in hard steel casing and slipping in softer steel casing
- Mule shoe designed to prevent spinning of bottom sub on top of the next plug in multiple-plug drillout
- Range of setting options: wireline, coiled tubing, or threaded pipe
- Shear screw adapter kit that connects to standard setting tools, simplifying setup

The Diamondback* composite frac plug isolates zones in vertical, deviated, and horizontal wells during multistage stimulation. It is set using wireline, coiled tubing, or threaded pipe.

A one-way internal check valve 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. The check valve allows free flow of fluids from below the plug after stimulation.

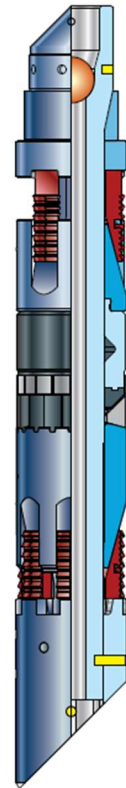
Faster run-in speeds

Antipreset measures provide an industry-leading design that increases confidence at higher run-in-hole speeds.

Faster millout and reduced debris size

Based on extensive experience with coiled tubing operations, the Diamondback plug is designed for milling out with minimum torque, generating cuttings that are easily circulated out of the well. Special clutch features at the top and bottom of the plug prevent spinning between plugs during millout, reducing millout time.

The plug is also available with hollow metal button slips that are designed to shatter during milling. This feature and the reduced metal content improve millout time and decrease debris size even further.



Diamondback frac plug.

Diamondback Frac Plug Specifications

Casing Size, in [mm]	Casing Weight, lbm/ft [kg/m]	Plug OD, in [mm]	Min. ID, in [mm]	Ball Diameter, in [mm]	Length, in [mm]	Pressure Rating, psi [kPa]	Temp. Rating, degF [degC]	Pumpdown Ring	
								Casing Weight, lbm/ft [kg/m]	Max. OD, in [mm]
4.500 [114.3]	13.5–18.8 [20.09–27.97]	3.437 [87.30]	0.86 [21.84]	1.375 [34.92]	25.1 [638]	10,000 [68,945]	275 [135]	13.5 [19.46]	3.77 [95.89]
4.500 [114.3]	13.5–18.8 [20.09–27.97]	3.437 [87.30]	0.86 [21.84]	1.375 [34.92]	25.1 [638]	10,000 [68,945]	275 [135]	15.1 [21.77]	3.68 [93.50]
4.500 [114.3] [†]	11.6–15.1 [17.26–22.47]	3.625 [92.08]	0.86 [21.84]	1.375 [34.92]	26.0 [660]	10,000 [68,945]	275 [135]	11.6 [17.26]	3.86 [97.92]
5.000 [127.0]	18.0–23.2 [26.78–34.52]	3.820 [97.03]	0.86 [21.84]	1.375 [34.92]	26.6 [676]	10,000 [68,945]	275 [135]	‡	‡
5.000 [127.0]	18.0–23.2 [26.78–34.52]	3.820 [97.03]	0.86 [21.84]	1.375 [34.92]	26.6 [676]	10,000 [68,945]	350 [177]	‡	‡
5.500 [139.7]	17.0–23.0 [25.30–34.22]	4.380 [111.25]	1.140 [28.96]	1.750 [44.45]	31.2 [792]	10,000 [68,945]	275 [135]	‡	‡
5.500 [139.7]	17.0–23.0 [25.30–34.22]	4.380 [111.25]	1.140 [28.96]	1.750 [44.45]	31.2 [792]	10,000 [68,945]	350 [177]	‡	‡
5.500 [139.7]	23.0–26.8 [34.23–39.58]	4.205 [106.81]	1.140 [28.96]	1.750 [44.45]	29.5 [747]	10,000 [68,945]	275 [135]	‡	‡
5.500 [139.7]	23.0–26.8 [34.23–39.58]	4.205 [106.81]	1.140 [28.96]	1.750 [44.45]	29.5 [747]	10,000 [68,945]	350 [177]	‡	‡

[†]Also available with button slips

[‡]Available on request