

Diamondback PT

Premium torque composite drillable frac plug

APPLICATIONS

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

BENEFITS

- Rigid slips and internal shear ring prevent presetting, minimizing risk and the associated cost of remedial work.
- Antirotation features transmit torque and prevent components from spinning, resulting in increased penetration rate and reduced debris size during millout.

FEATURES

- Rotational lock mechanism 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
- Ratings to 10,000 psi [68,945 kPa] and 350 degF [177 degC]

The Diamondback PT* premium torque composite drillable frac plug is designed to isolate zones in vertical, deviated, and horizontal wells during multistage stimulation. During millout, its antirotation features transmit torque and prevent spinning of components, increasing penetration rate and reducing debris size.

Rigid slips and an internal shear ring prevent presetting. A one-way internal check valve is closed with a ball dropped from the surface while the zone above the plug is being fractured. The check valve allows free flow of fluids from below the plug after stimulation.

The plug can be set using wireline, coiled tubing, or threaded pipe. It is designed to be drilled out quickly into small cuttings that can be easily circulated out of the well. A special mule shoe at the end of the plug prevents spinning during millout, reducing millout time.

Milling recommendations

This composite plug can be milled with most commonly available mills. A five-bladed, reverse-clutch junk mill dressed with starcut carbide provides the best results. The material enables the plug to be milled out into small cuttings that can be easily circulated out of the well. The plug's design prevents spinning during the milling operation, reducing overall millout time.



Diamondback PT premium torque frac plug with threaded top.



Diamondback PT premium torque frac plug with shear screw top.

Diamondback PT Frac Plug Specifications

Casing Size, in [mm]	Casing Weight, lbm/ft [kg/m]	Max. OD, in [mm]	Min. ID, in [mm]	Ball Diameter, in [mm]	Length, in [mm]	Pressure Rating, psi [kPa]	Temperature Rating, degF [degC]
5 [127.0] [†]	18.0–23.2 [26.78–34.52]	3.820 [97.02]	0.86 [21.84]	1.375 [34.92]	26.6 [676]	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]	34.3 [871]	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]	34.3 [871]	10,000 [68,945]	350 [177]
5.500 [139.7] [†]	23–26.8 [33.23–39.88]	4.205 [106.81]	1.140 [28.96]	1.750 [44.45]	29.8 [757]	10,000 [68,945]	350 [177]

[†]Shear screw top