



## PINCER HYBRID FRAC PLUG

### RELIABLE ZONAL ISOLATION AND PREDICTABLE DISSOLUTION

Created with optimized downhole efficiency in mind, the Pincer is a significant advancement in completion tool technology. The Pincer is comprised of 47% less material than its predecessor, Scorpion, a fully composite frac plug which has seen over 350,000 successful runs. With a design reminiscent of the Scorpion, the Pincer offers industry-leading drill-out times of approximately 3 minutes per plug—three times faster than the conventional composite standard. This innovation significantly reduces bit wear, allowing for more plug drilling on a single trip. The Pincer's hybrid approach, incorporating both composite and dissolvable materials, empowers operators to optimize their operations without being confined to a specific geolocation or basin. With remarkable pumpdown efficiency, ball-in-place or ball drop capabilities, and a commitment to industry-leading performance, the Pincer emerges as a versatile solution that redefines completion efficiency for the modern energy landscape.

### Features

- Effective Wellbore Zonal Isolation
- 47% less material than Scorpion™ frac plugs
- 12.1" in length
- Reduced Milling Time
- Segmented backup rings
- Ceramic gripping buttons
- Pumpdown ring available
- Compatible with 1.75" OD - 2.375" OD frac balls
- Molded and filament wound composite material for optimized performance
- Small single elastomer element

CASING SPECS				PLUG SPECS							
O.D. inch (mm)	Weight Range lb/ft (kg/m)	Min. I.D. inch (mm)	Max I.D. inch (mm)	Max Conveyance O.D. inch (mm)	Max PDR O.D. inch (mm)	Compressed PDR O.D. inch (mm)	I.D. inch (mm)	Length inch (mm)	Ball Size inch (mm)	Pressure Rating psi (Mpa)	Configuration
4-1/2 (114.3)	13.5-15.1 (20.1-22.5)	3.83 (97.3)	3.92 (99.6)	3.45 (87.6)	3.62 (91.9)	3.56 (90.4)	1.00 (25.4)	12.4 (315.0)	1.25 (31.8)	10,000 (69)	Ball Drop/ Ball in Place
5-1/2 (139.7)	23.0-26.0 (34.2-38.7)	4.55 (115.6)	4.67 (118.6)	4.18 (106.2)	4.31 (109.5)	4.29 (109.0)	1.50 (38.1)	12.2 (309.9)	1.75 (44.5)	10,000 (69)	Ball Drop/ Ball in Place
	20.0-23.0 (29.8-34.2)	4.67 (118.6)	4.78 (121.4)	4.37 (111.0)	4.62 (117.3)	4.48 (113.8)	1.50 (38.1)	12.1 (307.3)	1.75 (44.5)	10,000 (69)	Ball Drop/ Ball in Place
6 (152.4)	24 (35.7)	5.20 (132.1)	5.20 (132.1)	4.85 (123.19)	N/A	N/A	1.50 (38.1)	13.5 (342.9)	1.75 (44.5)	10,000 (69)	Ball Drop/ Ball in Place

Casing Specs are according to API Tubing/Casing Dimension Chart Information. This product may be covered by one or more patents or pending patent applications.

For recommended safe bypass rate parameters, please refer to the Completions Technologies page at [nineenergyservice.com](http://nineenergyservice.com)

For more information, and to find a representative near you, visit [nineenergyservice.com](http://nineenergyservice.com)