



## STINGER™ WITH DISSOLVABLE PUMPDOWN RING

This product may be covered by one or more patents or pending patent applications.

### FIELD-PROVEN FOR FASTER AND GREATER SAVINGS.

The industry's most advanced dissolvable plug just got an upgrade. Still offering the same great savings in multi-well plug-and-perf operations, Stinger can now be customized to feature a dissolvable pumpdown ring. The fully dissolvable frac plug offers the leading solution to work consistently and predictably in all temperature applications.

By dissolving, operators avoid the time, risks and costs associated with conventional completions—operators save in upfront Authorization for Expenditure (AFE) costs. Because they get to production faster, operators also see an Increased Rate of Return (IRR). The Stinger also eliminates the need for coil, which can result in weeks of downtime and up to \$1 million in costs if stuck downhole.

The Stinger is the shortest available, featuring a single as opposed to dual slips. This design is made possible thanks to the unique sealing mechanism that eliminates the need for a mandrel and allows for a smaller element, improving dissolution.

The Stinger features a larger ID to accommodate immediate flowback and degradable alloys that are designed to work in all environments, from fresh water to high-chloride reuse water.

### Features

- Customizable to wellbore applications
- Compact and robust design
- Standard RIH conveyance method
- Ceramic gripping buttons
- Reduces the need for coiled tubing intervention
- Ball in Place models for water savings
- Dissolvable Pump Down Rubber (PDR) increases water savings and helps to navigate challenging deviated wellbores.

The Stinger™ is the industry's shortest and most advanced dissolvable technology available.

CASING SPECS			PLUG SPECS					
Casing Size O.D. inch (mm)	Casing Weight Range lb/ft (kg/m)	Casing I.D. inch (mm)	Tool Description	O.D. inch (mm)	I.D. inch (mm)	RIH Length inch (mm)	Ball Size inch (mm)	Pressure Rating psi (Mpa)
4.5 (114.3)	13.5-15.1 (20.1-22.5)	3.92-3.83 (99.6-97.2)	Ball in Place / Ball Drop	3.49 (88.6)	1.00 (25.4)	7.10 (180.3)	1.25 (31.75)	10,000 (69)
			Ball Drop	3.49 (88.6)	1.00 (25.4)	7.10 (180.3)	1.75 (44.5)	10,000 (69)
	11.6-13.5 (17.3-20.1)	4.00-3.92 (101.6-99.6)	Ball in Place / Ball Drop	3.65 (92.7)	1.00 (25.4)	7.00 (177.8)	1.25 (31.75)	10,000 (69)
			Ball Drop	3.65 (92.7)	1.00 (25.4)	7.00 (177.8)	1.75 (44.5)	10,000 (69)
5.0 (127.0)	20.3-21.4 (30.2-31.8)	4.16-4.13 (105.6-104.8)	Ball in Place / Ball Drop	3.78 (96.0)	1.00 (25.4)	7.20 (182.9)	1.25 (31.75)	10,000 (69)
			Ball Drop	3.78 (96.0)	1.00 (25.4)	7.20 (182.9)	1.75 (44.5)	10,000 (69)
	18.0 (26.8)	4.28 (108.6)	Ball in Place / Ball Drop	3.92 (99.6)	1.00 (25.4)	6.80 (172.7)	1.25 (31.75)	10,000 (69)
			Ball Drop	3.92 (99.6)	1.00 (25.4)	6.80 (172.7)	1.75 (44.5)	10,000 (69)
5.5 (139.7)	23.0-26.0 (34.2-38.7)	4.67-4.55 (118.6-115.5)	Ball in Place / Ball Drop	4.18 (106.2)	1.50 (38.1)	7.37 (187.2)	1.75 (44.5)	10,000 (69)
	20.0-23.0 (29.8-34.2)	4.78-4.67 (121.4-118.6)	Ball in Place / Ball Drop	4.37 (111.0)	1.50 (38.1)	6.60 (167.6)	1.75 (44.5)	10,000 (69)
			Ball Drop	4.37 (111.0)	2.50 (63.5)	6.50 (165.1)	2.875 (73.0)	10,000 (69)
	17.0-20.0 (25.3-29.8)	4.89-4.78 (124.3-121.4)	Ball in Place / Ball Drop	4.47 (113.5)	1.50 (38.1)	7.00 (177.8)	1.75 (44.5)	10,000 (69)
			Ball Drop	4.47 (113.5)	2.50 (63.5)	6.90 (175.3)	2.875 (73.0)	10,000 (69)

Casing Specs are according to API Tubing/Casing Dimension Chart Information.

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