



STINGER™ POLYMER 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.

Delivering some of the most advanced dissolvable technology in the industry, the Stinger™ Dissolvable Polymer Plug from Nine provides greater savings in multi-well, plug-and-perf operations. And currently, it offers the leading solution to work consistently, and predictably, in high temperature applications.

With reliable dissolution, operators avoid the time, risks and costs associated with conventional completions. Operators save Authorization for Expenditure (AFE) costs upfront by foregoing the risks associated with conventional completions. Because they get to production faster, operators also see an Increased Rate of Return (IRR).

The Stinger also eliminates the need for coiled tubing, which can result in weeks of downtime and up to \$1 million in costs if stuck downhole. The Stinger is among the shortest dissolvable frac plugs available in today's market, featuring a single slip 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 polymer material which works in most hot well environments, including high chloride reuse water.

Features

- Compact and robust design
- Standard RIH conveyance method
- Environmentally safe
- Ceramic gripping buttons
- Reduces the need for coiled tubing intervention
- Ball in Place for water savings

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

24 DAYS SAVED ON A SIX-WELL PAD
IN REDUCED DRILL-OUT TIME.

Casing Size O.D. inch (mm)	Casing Weight Range lb/ft (kg/m)	Casing I.D. inch (mm)	Tool De- scription	Max. Conveyance O.D. inch (mm)	Max. PDR O.D. inch (mm)	Compressed PDR O.D. inch(mm)	I.D. inch (mm)	RIH Length inch (mm)	Ball Size inch (mm)	Pressure Rating psi (Mpa)
4.0 (101.6)	11.0 (16.4)	3.48 (88.3)	Ball in Place / Ball Drop	3.13 (79.5)	N/A	N/A	0.787 (20.0)	5.81 (147.6)	1.125 (28.6)	10000 (69)
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)	3.74 (95.0)	3.60 (91.4)	1.00 (25.4)	7.10 (180.3)	1.25 (31.75)	10000 (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)	3.90 (99.1)	3.76 (95.5)	1.00 (25.4)	7.00 (177.8)	1.25 (31.75)	10000 (69)
5.0 (127.0)	23.2 (34.5)	4.04 (102.7)	Ball in Place / Ball Drop	3.65 (92.7)	3.90 (99.1)	3.76 (95.5)	1.00 (25.4)	7.00 (177.8)	1.25 (31.75)	10000 (69)
	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)	4.03 (102.4)	3.89 (98.8)	1.00 (25.4)	7.20 (182.9)	1.25 (31.75)	10000 (69)
	18.0 (26.8)	4.28 (108.6)	Ball in Place / Ball Drop	3.92 (99.6)	4.17 (105.9)	4.03 (102.4)	1.00 (25.4)	7.10 (180.3)	1.25 (31.75)	10000 (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)	4.43 (112.5)	4.29 (109.0)	1.50 (38.1)	7.56 (192.0)	1.75 (44.5)	10000 (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)	4.62 (117.3)	4.48 (113.8)	1.50 (38.1)	7.20 (182.9)	1.75 (44.5)	10000 (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