



The Fast Flow™ System follows a pedigree as tough as the oilfield itself.

**BLENDED PAST EXPERIENCE WITH
FUTURISTIC EFFICIENCY**

FAST FLOW™

INNOVATION REVEALED

The recent growth in modern stage frac completions presents new challenges that demand the very best solutions. By innovating this time proven design in a new way, we have blended past experience with futuristic efficiency.

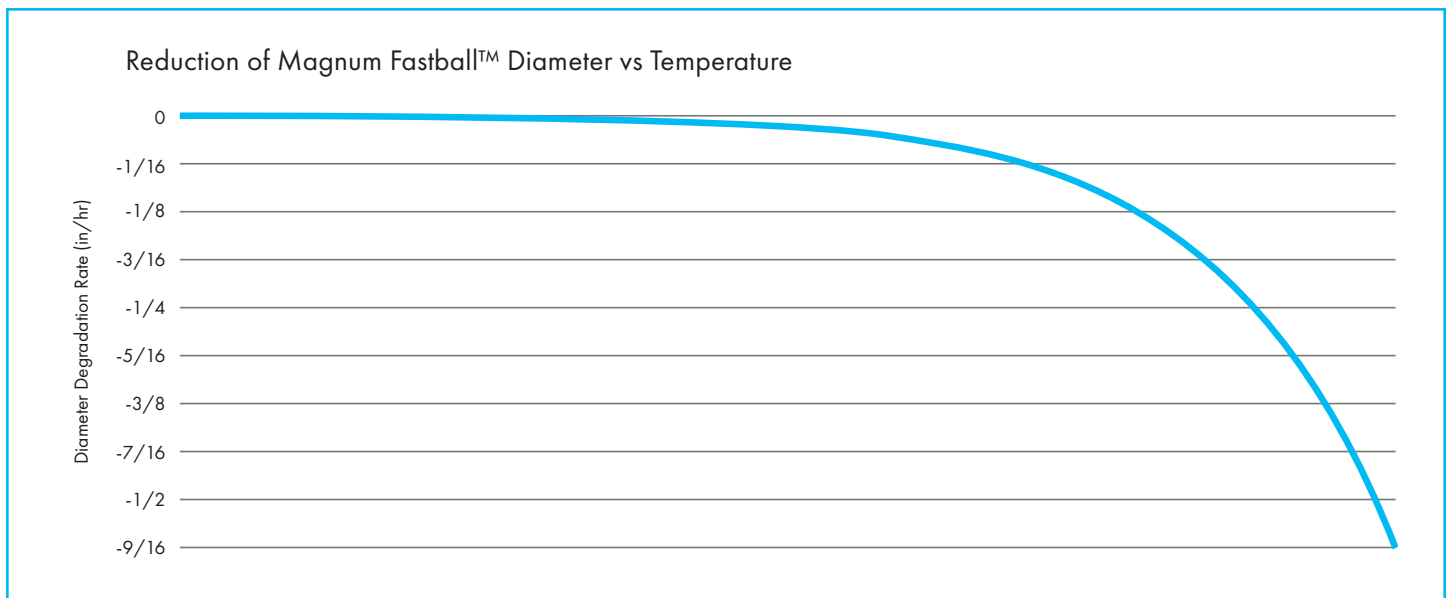
The Fast Flow™ System follows a pedigree as tough as the oilfield itself. This tool is designed to remain securely set in the wellbore indefinitely after use, eliminating the need for mill up. Touting a large flow through area and dissolving Fastball™ technology, the well may be produced through the plugs mere hours after the final stage has been stimulated. Unlike others in the same class, where steel is used, the Fast Flow™ System retains the ability to be easily milled, if removal is desired.

Features

- No well interventions needed
- Easily milled with Coiled Tubing or Stick Pipe/15 to 20 minutes average mill time
- Plug design has been proven over time
- No Well bore intervention required prior to opening for production
- Constructed of flow erosion resistant material
- No special fluids required for degradation of Fastball™
- Can be milled out if desired, no steel used in plug design
- Efficient wireline deployment speeds of up to 450 feet per minute
- Can be used the same way as conventional frac plugs
- Wide range of applications available

CASING SPECS				PLUG SPECS				OPERATING RANGES			
O.D. inch (mm)	Weight Range lb/ft (kg/m)	Min I.D. inch (mm)	Max I.D. inch (mm)	O.D. inch (mm)	I.D. inch (mm)	Length inch (mm)	Setting Tool	Low Temp/ Low PSI	Low Temp/ High PSI	Mid Temp/ High PSI	High Temp/ High PSI
4.00 (101.6)	9.50-11.00 (14.1-16.4)	3.48 (88.4)	3.55 (90.1)	3.19 (81.0)	1.36 (34.5)	24.00 (609.6)	Magnum "A-1," Baker #10 or Owen	250°F 8K PSI (121°C) (55.2MPa) Green Composite/ HSN Elastomer	250°F 10K PSI (121°C) (68.9MPa) Yellow Composite/ HSN Elastomer	300°F 10K PSI (149°C) (68.9MPa) Blue Composite/ HSN Elastomer	400°F 10K PSI (204°C) (68.9MPa) Blue Composite/ Viton Elastomer
4-1/2 (114.3)	9.50-13.50 (14.1-20.1)	3.92 (99.6)	4.09 (103.9)	3.57 (90.7)							
	15.10-17.10 (22.5-25.4)	3.75 (95.4)	3.83 (97.2)	3.44 (87.4)							
5.00 (127.0)	18.80-20.00 (28.0-29.8)	3.64 (92.5)	3.64 (92.5)	3.38 (85.7)							
	23.20 (15.6)	4.04 (102.7)	4.04 (102.7)	3.57 (90.7)							
5-1/2 (139.7)	11.50-18.00 (17.1-26.8)	4.28 (108.6)	4.50 (115.8)	3.92 (99.6)							
	14.00 (20.8)	5.01 (127.3)	5.01 (127.3)	4.60 (116.8)							
	15.50-23.00 (23.1-34.2)	4.67 (118.6)	4.95 (125.7)	4.30 (109.2)							
	23.00-28.40 (34.2-42.3)	4.44 (112.8)	4.67 (118.6)	4.13 (104.8)							

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



For more information, and to find a representative near you, visit nineenergyservice.com