



RAPID MILL™

INNOVATION REVEALED

Magnum's Rapid Mill™ frac plugs are used to isolate hydrocarbon formations in multi-stage frac operations. The slim, lightweight design of this frac plug series offers versatility for a range of downhole conditions, in horizontal and vertical wells. Composed of proprietary composite material and having a low metallic content, the Rapid Mill™ frac plugs can be quickly and easily milled and circulated back to surface using conventional milling, drilling with a rig and tubing, or coiled tubing.

After setting, the Rapid Mill™ Ball Drop frac plug remains open for fluid flow and allows wireline operations to continue until the ball drop isolation procedure has started. Once the surface-dropped ball is pumped down and seated into the inner funnel top of the tool, the operator can pressure up against the plug to achieve isolation. Although it is primarily used in horizontal wells, this plug can be deployed in vertical operations as well.

FEATURES

- No tungsten carbide buttons or aluminum
- Consistent drill times of 20 minutes or less
- Can be deployed on wireline, coiled tubing, tubing or drill pipe
- Designed for horizontal or vertical wells
- Dependable cast iron slips secure plug in place
- Unique pump-down element design requires less fluid and pump pressure to deploy plug horizontally
- Positive lock-up feature to ensure lock-up of multiple plugs in a single wellbore
- Efficient wireline deployment speeds of up to 450 feet per minute
- Custom O.D. available upon request
- Patented technology



Pump-Down Wipers
Available for Horizontal
Applications



Composite Frac Plugs

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)	Ball Size inch (mm)	Setting Tool	Low Temp/ Low PSI	Low Temp/ High PSI	Mid Temp/ High PSI
4 (101.6)	9.50-11.0 (14.1-16.4)	3.476 (88.3)	3.548 (90.1)	3.188 (81.0)	0.630 (16.0)	24.0 (609.6)	2.125 (54.0)	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
4-1/2 (114.3)	15.10-17.10 (22.5-25.4)	3.754 (95.4)	3.826 (97.2)	3.440 (87.4)							
	9.50-13.50 (14.1-20.1)	3.920 (99.6)	4.090 (103.9)	3.570 (90.7)							
5 (127.0)	23.20 (15.6)	4.044 (102.7)	4.044 (102.7)	3.570 (90.7)							
	11.50-18.00 (17.1-26.8)	4.276 (108.6)	4.560 (115.8)	3.920 (99.6)							
	14.00 (20.8)	5.012 (127.3)	5.012 (127.3)	4.600 (116.8)							
5-1/2 (139.7)	15.50-20.00 (23.1-29.8)	4.778 (121.4)	4.950 (125.7)	4.300 (109.2)	1.130 (28.7)		Magnum "A-1," Baker #20 or Owen				
	23.00-29.70 (34.2-44.2)	4.376 (111.2)	4.670 (118.6)	4.125 (104.8)							

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