



Pump-Down Kit Available for Horizontal Applications

MAGNUM VANISHING PLUG™ (HIGH TEMP)

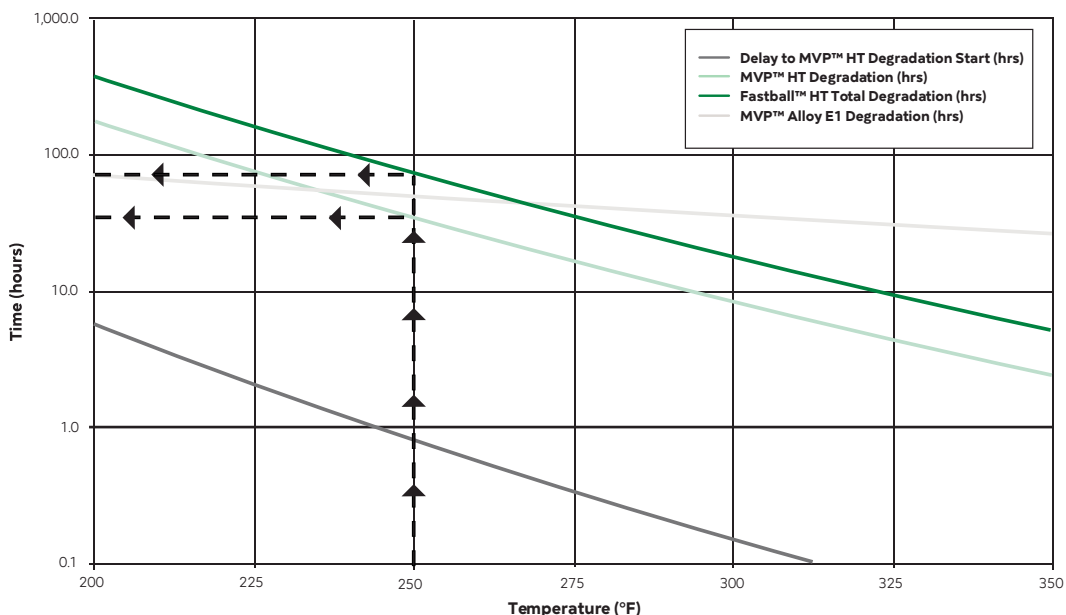
INNOVATION REVEALED

Your days of intervention are over—save money, minimize risk and reduce time to production with the **Magnum Vanishing Plug™ (MVP)**. The **Magnum Vanishing Plug™ (MVP)** has incredible compressive strength properties and dissolves at predictable rates with the presence of common wellbore temperatures and fluid, offering reliable flowback without the need for costly intervention. It's just one more way Magnum Oil Tools enables operators to achieve greater efficiency.

FEATURES

- Dissolvable slips
- Environmentally safe
- Eliminates the need for milling where tubing weight is a factor, such as in long laterals
- Less than one cubic inch of solids left behind when dissolved
- Fully dissolvable shearing mechanism
- Usage procedures and equipment identical to that of conventional composite plugs
- Efficient wireline deployment speeds of up to 400 feet per minute
- Proven anchoring and pack-off system design
- Wireline pumpdown compatible

Time for 5-1/2" Magnum Vanishing Plug™ High-Temperature (4.30) Degradation



Example: Temperature = 250°F
 MVP™ HT Polymer Degradation = 34.2 Hours
 MVP™ HT Alloy Degradation = 48.9 Hours
 Fastball™ HT Degradation = 71.8 Hours



Dissolvable Frac Plugs

CASING SPECS				PLUG SPECS					
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	Pressure Rating psi (Mpa)
3-1/2 (88.9)	9.3-10.2 (13.8-15.2)	2.92 (74.2)	2.99 (76.0)	2.73 (69.3)	0.46 (11.6)	13.7 (347.7)	1.00 (25.4)	Magnum A-1 or Owen	10k (68.9) Topside Only
4 (101.6)	11.6 (17.2)	3.43 (87.1)	3.43 (87.1)	3.13 (79.5)	0.60 (15.2)	15.7 (398.0)	1.75 (44.5)	Magnum A-1, Baker #10 or Owen	10k (68.9) Topside Only
4-1/2 (114.3)	15.10-17.10 (22.5-25.4)	3.75 (95.4)	3.83 (97.2)	3.44 (87.4)		14.4 (366.0)	1.75 (44.5) or 2.125 (54.0) optional		
	9.50-13.50 (14.1-20.1)	3.92 (99.6)	4.09 (103.9)	3.57 (90.7)					
5 (127.0)	23.20 (34.5)	4.04 (102.7)	4.04 (102.7)	3.57 (90.7)		14.6 (370.1)	9k (62.0) Topside Only		
	20.3-21.4 (30.2-31.8)	4.12 (104.8)	4.18 (106.3)	3.75 (95.3)					
5-1/2 (139.7)	23.00-28.40 (34.2-42.2)	4.44 (112.8)	4.67 (118.6)	4.13 (104.8)	0.88 (22.4)	15.8 (401.6)	2.125 (54.0)	Magnum A-1, Baker #20 or Owen	10k (68.9) Topside Only
	15.50-23.00 (23.1-34.2)	4.67 (118.6)	4.95 (125.7)	4.30 (109.2)		15.9 (402.8)			

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

OPTIONAL PUMP DOWN KIT SIZES

RING OD in. (mm)	DUROMETER	MATERIAL	PLUG O.D.
3.625 (92.1)	90	Magnum Thermoplastic	3.44 (87.4)
3.75 (95.3)			3.57 (90.7)
4 (101.6)			3.75 (95.3)
4.375 (111.1)			4.13 (104.8)
4.625 (117.5)			4.30 (109.2)

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

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