



MIRAGE®

DISSOLVABLE FRAC PLUGS

“When your definition of Dissolvable does not include the word Milling....”

VIGOR USA's MIRAGE® Series Gen II fully dissolvable frac plug technology enables extended reach lateral lengths to be reached when standard composite plugs fell short and cannot be easily milled out without sacrificing operational risks. MIRAGE® Series Gen II offers operators a larger internal diameter and less mass for greater efficiency. Our dissolvable plug design insures our clients with a reliable dissolution rate at different temperatures, pressures and brines.

The MIRAGE® Series Gen II Dissolvable Frac Plug was developed with dissolvable Magnesium alloys, 100 % dissolvable elastomers, and dissolvable high-strength matrix material.

FEATURES AND BENEFITS

- » Rated to 10,000 psi at temperatures ranging from 77° F to 300° F
- » 100% dissolvable magnesium alloy material, dissolvable in low salinity, low temperature wells and freshwater wellbore
- » Large I.D. bore for increased flow-back
- » Customized dissolving time
- » Shorter length and less material construction provides faster dissolution
- » 100% dissolvable in a short period of time, no mill out required to remove plug debris, saving rig time and cost



SPECIFICATION

CASING		DISSOLVABLE FRAC PLUG (BALL DROP PLUG)					
Size	Weight range	Max OD	Min ID	Length	Frac Ball OD	Temp. rating	Pressure rating
in. (mm)	lb/ft (kg/m)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	° F (° C)	psi (MPa)
3.5	7.7 - 10.3	2.677	1.81	12.6	1.750	As per Real Downhole Conditions	10,000 psi
(114.30)	(11.46 - 15.18)	(68.00)	(46.00)	(320.00)	(44.45)		(68,9 MPa)
4	10.7 - 18.9	2.835	1.18	12.6	2.000	As per Real Downhole Conditions	10,000 psi
(101.60)	(16.37 - 28.13)	(72.00)	(30.00)	(320.00)	(50.80)		(68,9 MPa)
4.5	11.6 - 15.1	3.5	1.85	12.6	1.850	As per Real Downhole Conditions	10,000 psi
(114.30)	(17.26 - 22.47)	(89.00)	(47.00)	(320.00)	(47.00)		(68,9 MPa)
5	18.0 - 21.4	3.740	2.087	12.992	2.756	As per Real Downhole Conditions	10,000 psi
(127.00)	(26.78 - 31.84)	(95.00)	(53.00)	(290.00)	(70.00)		(68,9 MPa)
5.5	23.0 - 26.8	4.055	2.087	11.496	2.756	As per Real Downhole Conditions	10,000 psi
(139.70)	(34.22 - 38.69)	(103.00)	(53.00)	(292.00)	(70.00)		(68,9 MPa)
5.5	17.0 - 23.0	4.173	2.087	11.496	3.000	As per Real Downhole Conditions	10,000 psi
(139.70)	(25.30 - 34.22)	(106.00)	(53.00)	(292.00)	(76.20)		(68,9 MPa)

**Ball in Place and Bridge Plug Configuration Available upon Request*