



MILL E-Z™

INNOVATION REVEALED

Nine's Mill E-Z™ Composite Plugs are used for temporary isolation in multi-stage vertical or horizontal completion operations. The Mill E-Z™ line includes the Ball Drop, Bridge Plug, Flo-Back and Flo-Back with Bio-Ball Plugs—all to bring you the best in your isolation efforts.

Comprised of proprietary composite material that ensures a low metallic content, the Mill E-Z™ can be quickly and easily milled and circulated back to surface. And with the addition of a Pump-Down wiper element, Mill E-Z™ products are a perfect fit for horizontal applications.

Features

- Consistent drill times of 30 minutes or less
- Can be set on wireline or coiled tubing using conventional setting tools
- Can be milled or drilled with coiled tubing or a rig
- Positive seal after setting
- Maximum surge potential of formation after perforating
- Millable cast iron slips
- High differential pressure rating
- Low temp and high temp materials conducive to a wide range of environments
- Patented precision shearing device
- Efficient wireline deployment speeds of up to 450 feet per minute
- Setting is done via a universal setting sleeve and adapter
- Simple valve control by surface pressure manipulation

30 MINUTES

OR LESS CONSISTENT DRILL TIMES

Quickly milled and circulated back to surface using conventional milling, drilling with a rig and tubing or with coiled tubing.

BALL DROP PLUG

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	High Temp/ High PSI
2-7/8 (73.0)	6.4-7.9 (9.5-11.8)	2.32 (59.0)	2.44 (62.0)	2.15 (54.6)	0.75 (19.1)	17.5 (444.5)	1.00 (25.4)	Magnum "A-1", Baker #5 or Owen 1-11/16" SHORTY	Not Yet Available	250F 10k PSI (121°C) Composite/ NBR Elastomer	300F 10k PSI (149°C) Composite/ NBR Elastomer	375F 10k PSI (191°C) Composite/ FKM Elastomer
3-1/2 (88.9)	7.70 (11.5)	3.07 (77.9)	3.07 (77.9)	2.83 (71.8)								
	9.30-10.20 (13.8-15.2)	2.92 (74.2)	2.99 (75.9)	2.73 (69.2)								
4.0 (101.6)	12.95 (19.3)	2.75 (69.9)	2.75 (69.9)	2.50 (63.5)	1.36 (34.5)	24.0 (609.6)	1.75 (44.5)	Magnum A-1, Baker #10 or Owen 3-5/8" COMPACT	250F 8k PSI (121°C) Composite/ NBR Elastomer	300F 10k PSI (149°C) Composite/ NBR Elastomer	375F 10k PSI (191°C) Composite/ FKM Elastomer	
	4-1/2 (114.3)	9.50-11.0 (14.1-16.4)	3.48 (88.3)	3.55 (90.1)								3.19 (81.0)
5.0 (127.0)		9.50-13.50 (14.1-20.1)	3.92 (99.6)	4.09 (103.9)								3.57 (90.7)
	5-1/2 (139.7)	15.10-17.10 (22.5-25.4)	3.75 (95.4)	3.83 (97.2)	3.44 (87.4)	1.90 (48.3)	2.125 (54.0)	Magnum A-1, Baker #20 or Owen 3-5/8" COMPACT	250F 8k PSI (121°C) Composite/ NBR Elastomer	300F 10k PSI (149°C) Composite/ NBR Elastomer	375F 10k PSI (191°C) Composite/ FKM Elastomer	
7.0 (177.8)		23.20 (15.6)	4.04 (102.7)	4.04 (102.7)	3.57 (90.7)							
	7-5/8 (193.7)	11.50-18.00 (17.1-26.8)	4.28 (108.6)	4.56 (115.8)	3.92 (99.6)							2.50 (63.5)
7.0 (177.8)		14.00 (20.8)	5.01 (127.3)	5.01 (127.3)	4.60 (116.8)							
	7.0 (177.8)	15.50-20.00 (23.1-29.8)	4.78 (121.4)	4.95 (125.7)	4.30 (109.2)	2.50 (63.5)	24.0 (609.6)	2.125 (54.0)	Magnum A-1, Baker #20 or Owen 3-5/8" COMPACT	250F 8k PSI (121°C) Composite/ NBR Elastomer	300F 10k PSI (149°C) Composite/ NBR Elastomer	375F 10k PSI (191°C) Composite/ FKM Elastomer
7.0 (177.8)		23.00-26.80 (34.2-39.9)	4.50 (114.3)	4.67 (118.6)	4.13 (104.8)							
	7.0 (177.8)	17.00-20.00 (25.3-29.8)	6.46 (164.0)	6.54 (166.1)	5.95 (151.1)	2.50 (63.5)	24.0 (609.6)	2.125 (54.0)	Magnum A-1, Baker #20 or Owen 3-5/8" COMPACT	250F 8k PSI (121°C) Composite/ NBR Elastomer	300F 10k PSI (149°C) Composite/ NBR Elastomer	375F 10k PSI (191°C) Composite/ FKM Elastomer
7.0 (177.8)		23.00-35.00 (34.2-52.1)	6.00 (152.5)	6.37 (161.7)	5.75 (146.1)							
	7-5/8 (193.7)	24.00-33.70 (35.7-50.2)	6.77 (171.8)	7.03 (178.4)	6.25 (158.8)	2.50 (63.5)	24.0 (609.6)	2.125 (54.0)	Magnum A-1, Baker #20 or Owen 3-5/8" COMPACT	250F 8k PSI (121°C) Composite/ NBR Elastomer	300F 10k PSI (149°C) Composite/ NBR Elastomer	375F 10k PSI (191°C) Composite/ FKM Elastomer
7-5/8 (193.7)		24.00-33.70 (35.7-50.2)	6.77 (171.8)	7.03 (178.4)	6.25 (158.8)							

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

BRIDGE PLUG

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)	Length inch (mm)	Setting Tool	Low Temp/Low PSI	Low Temp/ High PSI	Mid Temp/ High PSI	High Temp/ High PSI
2-3/8 (60.3)	4.7 (7.0)	1.995 (51.3)	1.995 (51.3)	1.75 (44.5)	16.38 (416.1)	Magnum "A-1", Baker #5 or Owen 1-11/16" SHORTY	Not Yet Available	Not Yet Available		
2-7/8 (73.0)	6.4-7.9 (9.5-11.8)	2.32 (59.0)	2.44 (62.0)	2.15 (54.6)	17.50 (444.5)					
3-1/2 (88.9)	7.70 (11.5)	3.07 (77.9)	3.07 (77.9)	2.83 (71.8)						
	9.30-10.20 (13.8-15.2)	2.92 (74.2)	2.99 (75.9)	2.73 (69.2)						
	12.95 (19.3)	2.75 (69.9)	2.75 (69.9)	2.50 (63.5)						
4.0 (101.6)	9.50-11.0 (14.1-16.4)	3.48 (88.3)	3.55 (90.1)	3.19 (81.0)	23.88 (606.6)	Magnum A-1, Baker #10 or Owen 3-5/8" COMPACT	250F 8k PSI (121°C) (55.2MPa) Composite/ NBR Elastomer	250F 10k PSI (121°C) (68.9MPa) Composite/ NBR Elastomer	300F 10k PSI (149°C) (68.9MPa) Composite/ NBR Elastomer	375F 10k PSI (191°C) (68.9MPa) Composite/ FKM 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)						
5.0 (127.0)	23.20 (15.6)	4.04 (102.7)	4.04 (102.7)	3.57 (90.7)	23.80 (604.5)	Magnum A-1, Baker #20 or Owen 3-5/8" COMPACT				
		11.50-18.00 (17.1-26.8)	4.28 (108.6)	4.56 (115.8)						
5-1/2 (139.7)	14.00 (20.8)	5.01 (127.3)	5.01 (127.3)	4.60 (116.8)	24.0 (609.6)					
		15.50-20.00 (23.1-29.8)	4.78 (121.4)	4.95 (125.7)						
7.0 (177.8)	17.00-20.00 (25.3-29.8)	6.46 (164.0)	6.54 (166.1)	5.95 (151.1)						
		23.00-35.00 (34.2-52.1)	6.00 (152.5)	6.37 (161.7)						
7-5/8 (193.7)	24.00-33.70 (35.7-50.2)	6.77 (171.8)	7.03 (178.4)	6.25 (158.8)						

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FLO-BACK PLUG

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	
2-7/8 (73.0)	6.4-7.9 (9.5-11.8)	2.32 (59.0)	2.44 (62.0)	2.15 (54.6)	0.50 (12.7)	18.38 (466.9)	Magnum "A-1", Baker #5 or Owen 1-11/16" SHORTY	Not Yet Available				
3-1/2 (88.9)	7.70 (11.5)	3.07 (77.9)	3.07 (77.9)	2.83 (71.8)								
	9.30-10.20 (13.8-15.2)	2.92 (74.2)	2.99 (75.9)	2.73 (69.2)								
	12.95 (19.3)	2.75 (69.9)	2.75 (69.9)	2.50 (63.5)								
4.0 (101.6)	9.50-11.0 (14.1-16.4)	3.48 (88.3)	3.55 (90.1)	3.19 (81.0)	0.63 (16.5)	23.88 (606.6)	Magnum A-1, Baker #10 or Owen 3-5/8" COMPACT		250F 10k PSI (121°C) (68.9MPa) Composite/ NBR Elastomer	300F 10k PSI (149°C) (68.9MPa) Composite/ NBR Elastomer	375F 10k PSI (191°C) (68.9MPa) Composite/ FKM 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)								
5.0 (127.0)	23.20 (15.6)	4.04 (102.7)	4.04 (102.7)	3.57 (90.7)								
	11.50-18.00 (17.1-26.8)	4.28 (108.6)	4.56 (115.8)	3.92 (99.6)								
5-1/2 (139.7)	14.00 (20.8)	5.01 (127.3)	5.01 (127.3)	4.60 (116.8)	0.88 (22.4)	23.80 (604.5)	Magnum A-1, Baker #20 or Owen 3-5/8" COMPACT		250F 8k PSI (121°C) (55.2MPa) Composite/ NBR Elastomer			
	7.0 (177.8)	17.00-20.00 (25.3-29.8)	6.46 (164.0)	6.54 (166.1)								5.95 (151.1)
		23.00-35.00 (34.2-52.1)	6.00 (152.5)	6.37 (161.7)								5.75 (146.1)
7-5/8 (193.7)	24.00-33.70 (35.7-50.2)	6.77 (171.8)	7.03 (178.4)	6.25 (158.8)								

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

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