



MILL E-Z CCR™

INNOVATION REVEALED

The Mill E-Z™ Composite Cement Retainer utilizes a built-in poppet valve assembly for remedial cementing or zone abandonment. The poppet one-way check valve is opened in conjunction with a stinger assembly and applied pressure from surface. Because of its low metallic content, the Mill E-Z™ Cement Retainer is quickly milled and circulated back to surface using conventional milling, drilling with a rig and tubing, or with coiled tubing. Once the Mill E-Z™ Cement Retainer is set, a stinger assembly is attached to the workstring and run to retainer depth. The stinger is then inserted into the retainer bore and seals against the mandrel I.D. isolating the workstring from the upper annulus. Once sufficient set down weight has been established, applied pressure (cement) is pumped down the workstring, opening the one-way check valve, allowing communication beneath the cement retainer.

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
- Setting is done via a universal setting sleeve and adapter
- Simple valve control by surface pressure manipulation

CASING SPECS			RETAINER SPECS				OPERATING RANGES		
Casing O.D. inch (mm)	Weight Range lb/ft (kg/m)	O.D. inch (mm)	Poppet Valve		Length inch (mm)	Setting Tool	Low Temp/ High PSI	Mid Temp/ High PSI	High Temp/ High PSI
			Min I.D. inch (mm)	Flow Area inch ² (mm ²)					
2-3/8 (60.3)	4.7 (7.0)	1.75 (44.5)	0.50 (12.7)	0.20 (129.0)	19.1 (485.1)	Magnum "A-1" or Owen 1-11/16" SHORTY	Not Yet Available	300°F 10KSI (149°C) (68.9MPa) Composite/ NBR Elastomer	375°F 10k PSI (191°C) (68.9MPa) Composite/ FKM Elastomer
2-7/8 (73.0)	6.4-7.9 (9.5-11.8)	2.15 (54.6)			19.7 (500.6)	Magnum "A-1", Baker #5 or Owen 1-11/16" SHORTY	250°F 10KSI (121°C) (68.9MPa) Composite/ NBR Elastomer		
3-1/2 (88.9)	12.95 (19.3)	2.50 (63.5)							
	9.3-10.2 (13.8-15.2)	2.73 (69.2)							

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

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