GEODynamics®

EPIC™ Precision RFX 2-3/4”

GEODynamics' advanced EPIC™ Precision RFX offers a factory-loaded, plug-and-play, limited entry perforating system for unconventional reservoirs. Precision integrates EPIC™ Slim U addressable switch technology with industry-standard detonator options into a programmable detonator module, delivering an intrinsically-safe, deployment-ready design. Quick and simple gun-string assembly saves time and increases efficiencies at the wellsite.

Precision carriers accommodate a variety of GEODynamics shaped charge options. FracIQ®, Connex®, Razor®, Basix™, and Refrax™ charge technologies offer precision performance in spiral shot carriers.

GEODynamics delivers EPIC Precision RFX carriers fully loaded to match customer specifications and preferences.

FEATURES

- Operation-readiness eliminates wellsite handling effort and streamlines run-in execution
- Utilizes EPIC™ Command state-of-the-art shooting panel
- Integrated EPIC™ Slim U technology (fastest configurable and programmable addressable switch on the market)
- Factory-installed shunted detonator, compatible with numerous industry-standard electric detonators
- Zero wired connections between guns and in tandem subs
- Disposable portless subs cut costs and reduce risk
- Carriers available as a turn-key system

BENEFITS

- Top-fire configuration facilitates safe shipment of loaded perforating carriers (meets all DOT requirements for 1.4D and 1.1D)
- Streamlined, intrinsically safe, factory-assembled reliability
- Spiral shot configurations with multiple phasing options offer one (1) to 19 shots per carrier, using FracIQ®, Basix™, Razor®, Connex®, or Refrax™ charge technologies
- Shorter than competitor designs
- Completely disposable high-efficiency perforating

Patents: www.perf.com/patents

EPIC™ Precision RFX 2-3/4”

GEODynamics®

Industry-leading shaped charge performance equals

BETTER WELL PERFORMANCE

This performance is achieved by combining cutting edge designs, state of the art production processes, and rigorous quality control.

2-3/4" SPIRAL CHARGES

CONSTANT ENTRY HOLE AND PENETRATION

Carrier O.D.	Shaped Charge	Part Number	Perforating Condition	Explosive	Shot Density / Phasing	API 19B Targeted Pipe*	Performance in Stressed Berea *(API RP19B Sec. 2)*		
							EHD^ *(in)[cm]*	**EHD Variation Decentralized**	**TTP** *(in)[cm]*
2-3/4” 11g-15g	FracIQ 30	EC2-27A1171	Fluid	11.0g, RDX	6 spf / 60°	4.5” OD P110	0.30 [0.76]	2.7 %	5.0 [12.70]
	FracIQ 35	EC2-27A1271		12.0g, RDX			0.35 [0.89]	5.9 %	
	FracIQ 40	EC2-27A1571		15.0g, RDX			0.40 [1.02]	6.3 %	

DEEP PENETRATING/EXTREME DEEP PENETRATING

Carrier O.D.	Shaped Charge	Part Number	Perforating Condition	Explosive	Shot Density / Phasing	^Casing O.D.	Performance in Concrete		Performance in Stressed Berea	
						Application	**EHD** *(in)[cm]*	**TTP** *(in)[cm]*	**EHD^** *(in)[cm]*	**TTP** *(in)[cm]*
2-3/4” 15g	2715 Connex SDP	EC2-27A1521-RC	In Fluid or Dry	15.0g, RDX	6 spf /60°	4-1/2" L-80			0.30 [0.76]	11.70 [29.72]
		EC2-27A1522-RC		15.0g, HMX					0.31 [0.79]	12.18 [30.94]
	2715 Razor XDP	EC2-27A1521		15.0g, RDX			0.39 [0.99]	37.45 [95.12]		
		EC2-27A1522		15.0g, HMX			0.39 [0.99]	37.45 [95.12]		
		EC2-27A1523		15.0g, HNS					0.31 [0.79]	10.50 [26.67]
	2715 Basix XDP	EC2-27A1521-E		15.0g, RDX			0.39 [0.99]	31.78 [80.72]	0.32 (0.81)	9.40 [23.88]
		EC2-27A1522-E		15.0g, HMX			0.38 [0.97]	32.75 [83.19]	0.35 [0.89]	10.60 [26.92]

DUAL CASING

Carrier O.D.	Shaped Charge	Part Number	Perforating Condition	Explosive	Shot Density / Phasing	Inner Casing		Outer Casing	
						O.D./Material	**EHD** *(in)[cm]*	**O.D./Material**	**EHD** *(in)[cm]*
2-3/4” 11g-15g	2711 Refrax	EC2-27A1171-R	Fluid	11.0g, RDX	6 spf / 60°	4.0” P110	0.29-0.30 [0.74-0.76]	5.5” P110	0.37-0.41 [0.94-1.04]
	2715 Refrax	EC2-27A1571-R		15.0g, RDX			0.34-0.36 [0.86-0.91]		0.34-0.42 [0.86-1.07]

Performance in concrete represents API RP43 or API RP19B Section I testing results with the shot density/phasing, casing OD, and casing grade specified.
^EHD performance in stressed berea represents API RP19B Section 2 testing results with casing flat metal plate equivalent to 0.500” 120KSI yield and penetration (TTP) in stressed berea rock.
FLUID: Qualified for shooting in FLUID only with perforating systems qualified by GEODynamics.
IN FLUID or DRY: Qualified for shooting in FLUID or DRY GAS with perforating systems qualified by GEODynamics.