



STRATX® 3 1/8"

GEODynamics STRATX® offers a factory-loaded, plug-and-play, limited entry perforating system for unconventional reservoirs. STRATX integrates EPIC™ Switch addressable technology with industry-standard detonator options into a programmable initiation control (PIC) module, delivering an intrinsically-safe, deployment-ready design. Quick and simple gun-string assembly saves time and increases efficiencies at the wellsite.

STRATX carriers accommodate a variety of GEODynamics shaped charge options. FracIQ®, Basix™, Razor®, Connex®, and Refrax™ charge technologies offer precision performance in spiral shot carriers. HELLFire™ charges offer effective multistage plug-and-perf operations in shorter-bodied planar shot cluster carriers.

GEODynamics delivers STRATX 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™ Switch technology (fastest configurable and programmable addressable 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)
- Streamlined, intrinsically safe, factory-assembled reliability
- Spiral shot configurations with multiple phasing options offer one (1) to 10 shots per carrier, using FracIQ®, Basix™, Razor®, Connex®, or Refrax™ charge technologies
- Shorter than competitor designs
- Completely disposable high efficiency perforating

STRATX® 3 1/8"

3-1/8" SPIRAL CHARGES FRACIQ®

Product Name	Part Number	Perforating Condition	Explosive
FracIQ 20	EC2-33A1271	Fluid	12.0g, RDX
FracIQ 25	EC2-33A1371		13.0g, RDX
FracIQ 30	EC2-33A1671		16.0g, RDX
	EC2-33A1672		16.0g, HMX
FracIQ 35	EC2-33A2071		20.0g, RDX
	EC2-33A2072		20.0g, HMX
FracIQ 40	EC2-33A2371		23.0g, RDX
	EC2-33A2372		23.0g, HMX
FracIQ 45	EC2-33A2071-45		20.0g, RDX
FracIQ 50	EC2-33A2371-50		23.0g, RDX
	EC2-33A2372-RX	23.0g, HMX	
FracIQ 55	EC2-33A2371-55	23.0g, RDX	
FracIQ 30 LD	EC2-33A1371-LD	Fluid	13.0g, RDX
FracIQ 35 LD	EC2-33A1671-LD		16.0g, RDX
FracIQ 40 LD	EC2-33A2071-LD		20.0g, RDX

*3-1/8" FracIQ charge performance is compatible in 4.5" 11.6-15.1# and 5.5" 17-23# P-110 casing.

Shot Density and Phasing	API 19B Targeted Pipe*	API Performance			
		Entrance Hole (in)[cm]	EHD Variation Decentralized	Rock Penetration API 19B-Sec. 2 (in)[cm]	
6 spf / 60°	4.5-5.5" OD	0.22 [0.56]	5.5%	5.0 [12.70]	
		0.26 [0.66]	4.1%		
		0.32 [0.81]	4.6%		
		0.34 [0.86]	3.8%		
		0.37 [0.94]	3.4%		
		0.37 [0.94]	3.0%		
		0.42 [1.07]	3.5%		
		0.41 [1.04]	3.8%		
		4.5"-5.5" OD	0.45 [1.14]		5.6%
		4.5-5.5" OD	0.50 [1.27]		1.5%
6 spf / 60°	4.5" OD	0.50 [1.27]	4.6%	5.0 [12.70]	
		0.55 [1.40]	3.8%		
		0.31 [0.79]	3.1%		
		0.36 [0.91]	2.5%		
		0.40 [1.02]	3.3%		

BASIX™ GOOD HOLE, BIG HOLE, DEEP PENETRATING

Product Name	Part Number	Perforating Condition	Explosive
3319 Basix GH	EC2-33A1941	‡ Fluid or Dry	19.0g, RDX
	EC2-33A2341	Fluid	22.7g, RDX
3323 Basix BH	EC2-33A2331	Fluid	22.7g, RDX
	EC2-33A2332		22.7g, HMX
3319 Basix XDP	EC2-33A1921-E	Fluid	19.0g, RDX
3319 Basix XDP	EC2-33A1921	‡ Fluid or Dry	19.0g, RDX
3319 Basix DP	EC2-33A1951	‡ Fluid or Dry	19.0g, RDX
3323 Basix XDP	EC2-33A2321	Fluid	22.7g, RDX
	EC2-33A2321-E		22.7g, RDX

* Test results pending.

Shot Density and Phasing	API Casing Size (in)[cm]	Entrance Hole (in)[cm]	Penetration	
			(in)[cm]	(test)
6 spf / 60°	4.5 [11.43]	0.60 [1.52]	28.55 [72.52]	API RP 43
		*	*	*
		*	*	*
		*	*	*
		0.43 [1.09]	35.80 [90.93]	API RP43
		0.51 [1.30]	42.07 [106.86]	API RP 43
		*	29.20 [74.17]	QC
		0.54 [1.37]	*	*
		0.42 [1.07]	46.01 [116.87]	API RP 43

BASIX™ FRAC CONSTANT ENTRY HOLE AND PENETRATION

Product Name	Part Number	Perforating Condition	Explosive
Basix Frac 25	EC2-33A1271-BF	Fluid	12.0g, RDX
Basix Frac 30	EC2-33A1471-BF		14.0g, RDX
Basix Frac 35	EC2-33A1871-BF		18.0g, RDX
Basix Frac 40	EC2-33A2371-BF		23.0g, RDX
Basix Frac 45	EC2-33A2371-BF45		23.0g, RDX
Basix Frac 50	EC2-33A2371-BF50		23.0g, RDX

Shot Density and Phasing	API 19B Targeted Pipe*	Entrance Hole (in)[cm]	EHD Variation Decentralized	Rock Penetration API 19B-Sec. 2 (in)[cm]
				4.5" - 5.5" OD P-110
6 spf / 60°	4.5" - 5.5" OD P-110	0.26 [0.66]	2.4%	4.0 [10.16]
		0.31 [0.79]	4.0%	
		0.36 [0.91]	3.4%	
		0.40 [1.02]	6.6%	
		0.45 [1.14]	5.9%	
		0.50 [1.27]	4.8%	

CONNEX®

Product Name	Part Number	Perforating Condition	Explosive
3319 Connex XEH	EC2-33A1941-RC	‡ Fluid or Dry	19.0g, RDX
	EC2-33A1942-RC		19.0g, HMX
3319 Connex RX	EC2-33A1991-RX	‡ Fluid or Dry	19.0g, RDX
	EC2-33A1992-RX		19.0g, HMX
3323 Connex	EC2-33A2321-RC	Fluid	22.7g, RDX
	EC2-33A2322-RC		22.7g, HMX
3323 Connex XEH	EC2-33A2341-RC	Fluid	22.7g, RDX
	EC2-33A2342-RC		22.7g, HMX

^ API Heavy wall casing is equivalent to 0.500" 120KSI yield.

* Test results pending.

Shot Density and Phasing	API Casing Size (in)[cm]	API Performance		
		Entrance Hole (in)[cm]	API Heavy Wall^ Entrance Hole (in)[cm]	Penetration Stressed Berea API 19B Sec. 2 (in)[cm]
6 spf / 60°	4.5 [11.43]	*	*	*
		0.52 [1.32]	0.42 [1.07]	14.37 [36.50]
		*	*	*
		0.40 [1.02]	0.32 [0.81]	11.60 [29.46]
		0.40 [1.02]	*	15.60 [39.62]
		0.46 [1.17]	0.46 [1.17]	15.31 [38.89]
		*	*	*
		0.50 [1.27]	0.43 [1.09]	15.89 [40.36]

RAZOR® EXTREME DEEP PENETRATING

Product Name	Part Number	Perforating Condition	Explosive
3319 Razor XDP	EC2-33A1922	‡ Fluid or Dry	19.0g, HMX
3323 Razor XDP	EC2-33A2322	Fluid	22.7g, HMX
	EC2-33A2322-E		

Shot Density and Phasing	API Casing Size (in)[cm]	Entrance Hole (in)[cm]	Penetration	
			(in)[cm]	(test)
6 spf / 60°	4.5 [11.43]	0.49 [1.24]	41.10 [104.39]	API RP 43
		0.42 [1.07]	39.02 [99.11]	API RP 43

REFRAX™

Product Name	Part Number	Perforating Condition	Explosive
3314 Refrax	EC2-33A1471-D	Fluid	14.0g, RDX
3316 Refrax	EC2-33A1671-D		16.0g, RDX
3320 Refrax	EC2-33A2071-D		20.0g, RDX
3316 Refrax	EC2-33A1671-D		16.0g, RDX
3323 Refrax	EC2-33A2371-D		23.0g, RDX

Shot Density and Phasing	Inner Casing	API Performance in Dual Casing		
		Inner Casing EH (in)[cm]	Outer Casing	Outer Casing EH (in)[cm]
6 spf / 60°	Expanded 4.0" P110	0.33-0.33 [0.84-0.84]	5.5" P110	0.30-0.30 [0.76-0.76]
		0.37-0.38 [0.94-0.95]		0.35-0.35 [0.89-0.89]
6 spf / 60°	4.5" P110	0.41-0.42 [1.04-1.07]	7.0" P110	0.40-0.40 [1.02-1.02]
		0.30-0.32 [0.76-0.81]		0.39-0.41 [0.99-1.04]
		0.41-0.42 [1.04-1.07]		0.35-0.35 [0.89-0.89]