

StrykeZone XACT

Perforating Charges

Achieve Optimum Results

Consistent perforation entrance hole (EH) diameters are essential to optimizing fracturing efficiency. Perforating EH diameters must be large enough to prevent proppant bridging and consistent in size for accurate limited-entry designs.

With conventional 60-degree perforating systems, EH size can vary up to 40% depending on gun positioning, charge type and water clearance between the perforating gun and the inner casing diameter. This variation in EH results in large discrepancies in calculated perforation friction. The results—fracture stimulations conducted outside of design—cause poor cluster stimulation and potential screenout. GR Energy Services recommends the use of StrykeZone XACT* charges, which create an ideal hole size with little variation regardless of the position of the perforating gun.

With StrykeZone XACT charge technology, you can achieve improved fracture placement with uniform distribution of treating fluids and greater production from increased cluster stimulation. Using StrykeZone XACT charge technology, along with the GR ZipFire* high-efficiency gun system, helps deliver record-setting performance that lowers completion time, reduces risk, decreases operating cost and maximizes total available pumping time.

StrykeZone Benefits

Optimizes fracturing efficiency and improves stimulation results

Prevents large discrepancies in calculated perforation friction

Reduces poor cluster stimulation and potential screenouts

StrykeZone Features

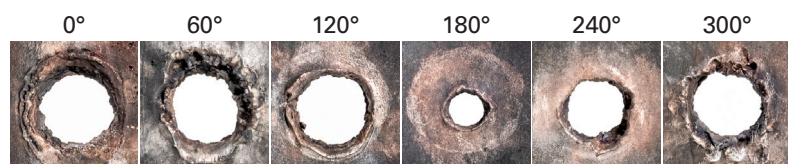
Produces consistent entry hole diameters

Can be used regardless of position of perforating gun

StrykeZone Applications

Limited-entry perforating designs

Phasing



Entry holes created by standard deep-penetrating charges.



Entry holes created by StrykeZone XACT charges.

Standard deep-penetrating charges create highly variable entry hole sizes that can cause a significant drop in near-wellbore pressure. StrykeZone XACT charges create consistent entry hole sizes, which produce overall improved stimulation results.



StrykeZone* Perforating Charge Performance Summary

Type	Part number	Charge	Explosive weight (g)	Gun OD (in.)	P-110 test casing OD (in.), weight (lbm/ft)	Avg. EH diameter (in.)	Avg. penetration (in.)	Std. dev. (%)
DP	WC33X-2331	StrykeZone 3323 XDP, RDX	22.7	3.375	5.5, 20	0.41	38.7	
	WC33P-2321	StrykeZone 3323 SDP, RDX	22.7	3.375	5.5, 20	0.43	36.0	
	WC33P-2322	StrykeZone SDP, 22.7-g HMX	22.7	3.125	5.5, 23	0.39	34.1	
	WC33P-2322	StrykeZone SDP, 22.7-g HMX	22.7	3.375	5.5, 20	0.45	38.0	
	WZ27D-1511	StrykeZone 2715 SDP, RDX	15	2.75	4.5, 15	0.32	31.0	
GH	WC33G-1941	StrykeZone 3319 GH12, RDX	19	3.125	5.5, 20	0.50	19.8	
	WC33G-1941	StrykeZone 3319 GH1, RDX	19	3.375	5.5, 20	0.43	27.7	
	WC33G-1942	StrykeZone 3319 GH2, HMX	19	3.375	5.5, 20	0.43	33.0	
	WC33G-2141	StrykeZone 3323 GH1, RDX	22.7	3.375	5.5, 20	0.54	27.1	
	WC27X-1531	StrykeZone 2815 GH1, RDX	15	2.75	4.5, 15	0.44	28.1	
XACT	WC33X-2161	StrykeZone 3321 XACT.S, RDX	21	3.375	5.5, 20	0.33	25.4	4.6
	WC33X-2162	StrykeZone 3321 XACT.M, RDX	21	3.375	5.5, 20	0.38	23.1	1.4
	WC33X-2163	StrykeZone 3321 XACT.L, RDX	21	3.375	5.5, 20	0.44	22.3	3.1
	WC33X-2163	StrykeZone 3321 XACT.L., RDX	21	3.125	5.5, 23	0.42	22.5	4.4
	WC27X-1563	StrykeZone 2175 XACT.M, RDX	15	2.75	4.5, 15	0.37	21.8	3.5
ReFrac	WC27X-1563	StrykeZone 23/4-in. ReFrac L, RDX	15	2.75	4.5, 15	0.32	7.1	
					5.5, 20			
					4.0, 11.6	0.39	5.0	
					6.0, 24.1			
					4.0, 11.6	0.48	5.2	
					5.5, 23			
					4.0, 11.6	0.49	5.8	
					5.5, 20			
					4.0, 11.6	0.58	6.7	
5.0, 18								

Contact GR today to learn more about StrykeZone XACT perforating charges, which can measurably optimize perforating efficiency.

*Mark of GR Energy Services
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