

Perforating
Oriented Plug-and-Perf

Velocity™ Revolve™ Perforating Guns

Configurable, precise, self-oriented gun system for plug-and-perf applications

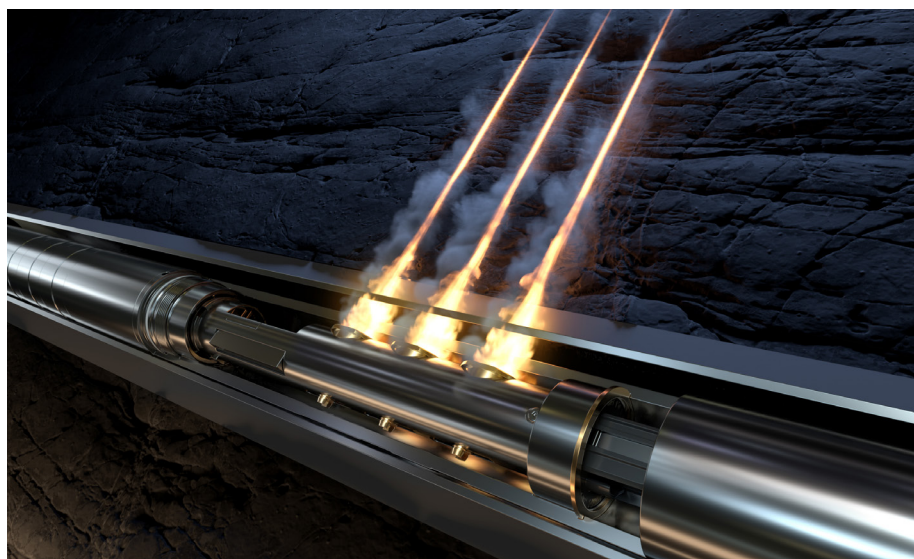
FEATURES

Robust, precision-engineered system for high-efficiency unconventional completions

- Modular platform with customizable shot phasing
- Plug-and-play arming and gun string assembly, fully disposable after use
- Twist-lock charge retention to maximize rotation
- Alignment verification during field assembly

BENEFITS

- Orientation unaffected by wellbore conditions or gun string motion
- Measured downhole perforation accuracy within 5% of target angle
- More consistent entry hole diameters for uniform frac treatments
- Reduces stage preparation time
- Lowers misrun frequency and downtime associated with manual systems



Overview

Numerous case studies backed by downhole diagnostics have shown that oriented perforations help provide more consistent entry hole diameters in the casing. This allows for a more uniform frac treatment during a stimulation operation. However, legacy orientation techniques such as external orienting weight bars have significant limitations and can result in less consistent perforation accuracy downhole.

The Halliburton Velocity™ Revolve™ oriented gun system gives operators the ability to confidently orient perforations downhole, without the need for any external hardware such as oriented weight bars or lock-ring mechanisms. Regardless of tool motion downhole, cluster count, or shot density, Revolve guns consistently orient perforating charges in the desired direction.

Built on the architecture of the industry's first internally oriented, fully modular system, Revolve perforating guns continue a long legacy of reliability and accuracy. Revolve guns are pre-loaded and delivered directly to a wellsite. Upon arrival, a wireline crew simply needs to insert a push-in detonator before running in the well.

Recommended Shaped Charges

CHARGE NAME	AVG. ENTRY HOLE DIAMETER	ORIENTED EHD VARIABILITY (0°)	PART NUMBER	EXP LOAD	EXP TYPE
FracJet 2103-S	0.38 in.	4.9%	103108333	21g	RDX
FracJet 2300-S RDX	0.40 in.	2.3%	103228015	23g	RDX
FracJet 2300-S HMX	0.41 in.	6.4%	102986369	23g	HMX
FracJet 2100-S	0.44 in.	1.1%	103110311	21g	RDX
FracJet 2302-S	0.51 in.	1.0%	103157902	23g	RDX

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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