

Halliburton Velocity™ Aligned Gun System

ECONOMIC, COMPACT, AND VERSATILE SYSTEM FOR ORIENTING PERFORATIONS IN HORIZONTAL WELLS

OVERVIEW

In an unconventional completion, it is important to utilize as many of the open perforations as possible to optimize fluid and proppant placement in a formation. Data suggests that orienting all perforations along the same azimuth in the casing helps to ensure that perforations are as uniform as possible, making the treatment more effective. For high-volume, high-efficiency applications, such as orienting perforations in non-fiber-optic wells, the Halliburton Velocity™ Aligned gun system provides an economic option for orienting perforations in 2.5° increments around the casing circumference. This accurate and efficient system is fully adjustable at the wellsite.

By orienting the charge tube rather than the gun carrier, Velocity™ Aligned guns make it unnecessary to have additional hardware (such as lock rings) and to orient subs between guns. This design also reduces the variability in gun-to-gun orientation by reducing the number of contact points required for the bottomhole assembly (BHA). This orienting method is also more compact than alternate orienting mechanisms – thus keeping the resulting gun assembly lighter and shorter, decreasing the HSE exposures on location.

Velocity™ Aligned gun systems include all of the benefits of the Velocity™ modular system. The entire Velocity™ Aligned assembly is a plug-and-play system that is disposable after being run in hole. Velocity™ Aligned guns are fully addressable, radio frequency (RF) safe, and compatible with any industry-standard perforating charge. Multiple switch options are also available, and the guns are compatible with industry-standard accessories, such as orienting weight bars, release tools, downhole tension devices, and swivels.

FEATURES

- » Adjustable at the wellsite in 2.5° increments
- » Plug-and-play, and fully disposable platform
- » Minimal external orienting hardware required
- » Shorter length than competing systems
- » Broadest portfolio of charges in a fully modular oriented system

BENEFITS

- » Requires minimal time to orient
- » Reduced variability on gun-to-gun orientation
- » Economic platform compared to other orienting options
- » Reduced HSE exposure relative to competing systems
- » Delivered loaded and ready to be run in hole



Velocity™ Aligned	Competing Systems	Benefits of Velocity™ Aligned Systems
Charge tube aligned, instead of gun carrier	Reliance on external lock rings and subs	<ul style="list-style-type: none"> • More reliable orientation and shorter BHA than traditional methods • Less equipment and fewer touchpoints for personnel
Modular platform	Requires loading, assembly, and/or wiring on location	<ul style="list-style-type: none"> • More efficient surface operations • Elimination of human-caused failures • Fully disposable system • Eliminates the need to clean and redress equipment
Optimized length and weight	Needs longer guns and additional hardware	<ul style="list-style-type: none"> • Ability to run more guns without the need for additional surface equipment. • More easily conveyed down hole • Reduced HSE exposure
Multiple perforation charge specifications	Often limited to a single perforation charge specification	<ul style="list-style-type: none"> • Completion design flexibility • More limited entry options



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