SEAMAP
A MIND Technology Business

SEAMAP SLEEVE GUN

MARINE SEISMIC ACQUISITION ENERGY SOURCE

Field proven in worldwide applications, Seamap Sleeve Guns are available in two series (IC and IIC). Offering precise timing for a superior acoustic signature, Sleeve Guns are reliable, safe and easy to repair.

- Available in two series and several volumes
- Sleeve Gun-IC in three sizes (10 in3, 20 in3, 40 in3)
- Sleeve Gun-IIC in five sizes (70 in3, 100 in3, 150 in3, 210 in3, 300 in3)
- Chamber inserts are available for further volume adjustment (in 5 in3 increments)
- Precise timing
- Routine service internal in excess of 250,000 shots
- Long-life wear surfaces and wear indicators to prevent unnecessary part replacement
- Deploy and Retrieve without high pressure being applied to the guns
- Patented low-impedance polarized timing coil yields maximum tolerance to leakage

The Seamap Sleeve Gun is field-proven in worldwide applications

- Deep water multiple array 3-D seismic surveys
- Ocean bottom cable energy source
- Shallow water and marsh operations, with optional mud-shuttles
- High-resolution surveys, requiring extended bandwidth
- VSP applications, both offshore and onshore

Reliability, Safety and Ease of Repair

The Seamap Sleeve Gun offers a routine service internal in excess of 250,000 shots.

Long-life wear surfaces and wear indicators are used to prevent unnecessary part replacements. Crown seals and wear rings with longer lives are used, along with a simple, reliable face seal. A solenoid valve with inertial poppet and without dynamic o-ring seals increases reliability.

Fewer parts allow for quick, easy, low cost maintenance, and a patented low-impedance timing coil yields maximum tolerance to leakage.

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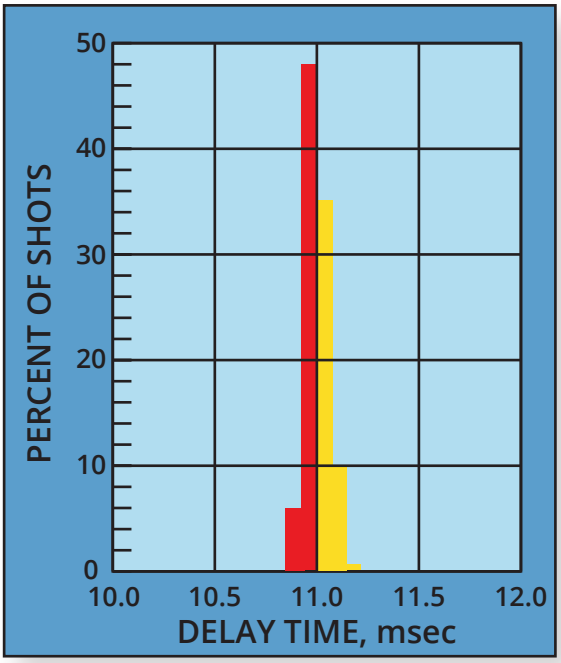
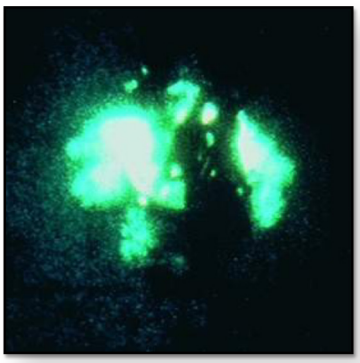
Precise Timing for a Superior Acoustic Signature

The figure to the right shows a plot of timing data obtained for 500 consecutive shots.

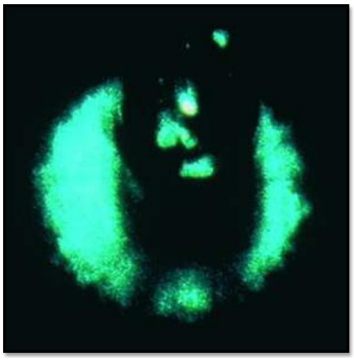
The mean firing time is 10.948 msec with a standard deviation of 0.071 msec and a dispersion of 0.374 msec.

Measured standard deviation of 110 µs dispersion with a 351 µs dispersion.



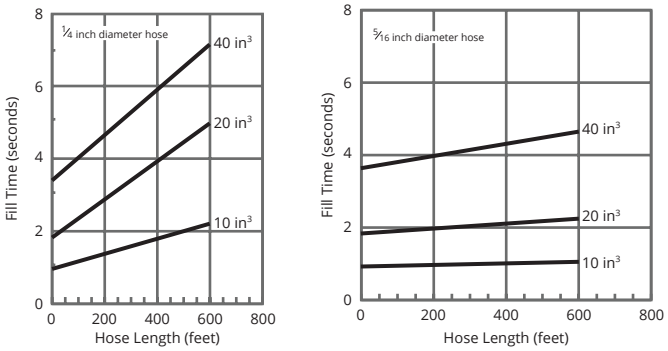


Ported Gun - Irregular Gun Bubble

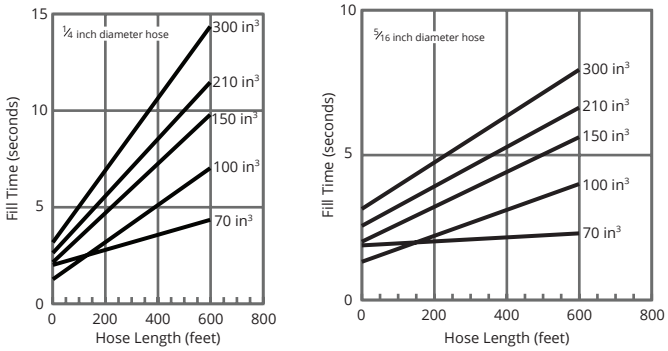


Seamap Sleeve Gun - Regular 360° Gun Bubble With No Recoil

Fill Times for Sleeve Gun I



Fill Times for Sleeve Gun II



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