

Black Phantom™

FLOATATION SUB



OVERVIEW

Advancements in drilling technology has allowed operators to drill wells with ever increasing horizontal lengths, which can create concerns landing casing at planned total depth (TD). Interra Energy's Black Phantom™ Floatation Sub was designed to ensure casing will reach desired TD.

During casing installation, the Black Phantom helps reduce overall torque and drag through a proprietary activation mechanism that utilizes a glass disk to keep the section beneath the tool filled with air. With the air chamber intact throughout the horizontal section, friction is reduced allowing for the string to be "floated" into the well.

OPERATION

The Black Phantom can be installed anywhere in the casing string based on client requirements.

After successfully running casing to TD, pressure is increased to the pre-calculated shear value, shattering the disk and enabling circulation. Upon activation, only small pieces of glass are produced, ensuring all downhole equipment is unaffected, eliminating the need for a debris sub.

Features & Benefits

- ★ Full ID after activation.
- ★ Highly tempered glass disk creates small, manageable pieces upon opening that do not compromise the floats.
- ★ No debris management required above floats.
- ★ Slim OD design.
- ★ Patent-pending activation mechanism.
- ★ ±5% opening pressure accuracy.
- ★ One internal connection above the glass disk eliminates the need to pressure test from below.
- ★ Activation pressure can be configured in 500 psi increments.
- ★ Compact tool length eliminates need for pup joints.
- ★ Compatible in both cemented and open hole applications.

SPECIFICATIONS

Tool Size in. (mm)	Casing Weight lb/ft (kg/m)	Max. Outside Diameter (OD) in. (mm)	Min. Inside Diameter (ID) in. (mm)	Total Length ft (m)
4.500 (114.30)	11.6 - 13.5 (17.26 - 20.09)	5.560 (141.22)	3.90 (99.06)	1.50 (0.46)
	15.1 (22.47)	5.660 (143.76)	3.82 (97.03)	
5.500 (139.70)	17.0 - 20.0 (25.29 - 29.76)	6.500 (165.10)	4.77 (121.16)	1.83 (0.56)
	23.0 (34.22)		4.58 (116.30)	