



# PLUG LAUNCHER

## A Lighter Launch

Reduce the flat time between landing casing and cementing with the Volant Paddle Valve Plug launcher.

## Simple. Compact. Reliable

The Plug Launcher is installed above the last joint of casing and enables the worry-free release of plugs through a remote pneumatic release system. With a positive launch indicator, plugs are launched without disengaging equipment or disrupting flow.

The uniquely designed paddles keep plugs in place until they are ready to be launched. Cement bypasses the inner diameter of the tool flowing into the annular space between the main body and cage, where plugs are housed. When plugs are ready to be launched the paddles are pneumatically opened to the launched position, closing off the bypass and redirecting the flow of cement to the top of the plug, forcing the plug out for a positive launch. The tattle-tale launch indicator is triggered by the passing of the plug and is reset from the pneumatic controls on the rig floor.

Up to **750 ton** hoist capacity<sup>1</sup>

**10,000 psi** rating

Up to **9-5/8 in.** plugs<sup>2</sup>

Rig-up in **<15 minutes**



## Advanced Design for Improved Performance

Remote pneumatic control system

Reliable paddle valve system

Symmetric launch mechanism

Visual verification with tattle-tale indicator

Sequential plug release

Uninterrupted continuous flow

Uniform swing radius

Manufactured with no protruding parts

Compact for easy installation

Adaptable parts for customized solutions

1. Hoist capacity is limited by casing connection. 2. Plug size dependent on tool model.

# The Perfect Combination

During the cementing operation, rotation and reciprocation of the string has proven to be one of the most effective means of achieving uniform cement distribution in the annulus, contributing to long term integrity of the well and maintaining the intended zonal isolation cement provides.

Volant CRTi® and CRTe® casing running tools allow customers to pump cement through the top drive and through the bore of the tool, allowing full capability of rotation and reciprocation of the casing string during cementing operations without the need to rig-up additional equipment. This configuration is especially beneficial where limited mast height prevents the installation of additional cementing equipment.

For customers looking to avoid pumping cement through the top drive, the Volant Cement Swivel can be installed below and provides the option to rotate the casing string during cementing. Installed above the CRTi or CRTe, to eliminate the need to rig-up at a later time, or below when the last joint of casing is set, the cement swivel provides the best option for a successful cement job.

The Volant Plug Launcher is installed above the last joint of casing and allows you to maintain rotation and reciprocation during the release of cement plugs. The plug launcher can be used independently or in combination with the cement swivel and the CRTi or CRTe.

Volant's combination of casing running tools and cementing equipment provides solutions and options to help reduce non-productive time and operating costs.



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PATENT-PENDING

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