VOLANT

Plug Launcher Tool

Volant's Plug Launcher connects in-line with the top drive quill to enable the release of cement plugs down hole while maintaining the ability to rotate and reciprocate. The tool is configured with a tool joint adapter on top and casing adapter on the bottom. Adapters can be quickly changed out to suit specific rig requirements.

Equipped with uniquely designed paddles for a uniform release, plugs are launched symmetrically down hole. When a plug is launched, the paddles gradually transition from bypass to through-bore flow, allowing for a continued full flow rate. The tool is equipped with a self-locking mechanism to prevent unintentional plug launch and an interlock to ensure correct sequence. Launch indicator is activated with each plug, then remotely reset.

The Plug Launcher is compatible with Volant's CRTi® or CRTe® tools and Cement Swivel for increased cementing efficiency.

Base Tool Characteristics

Pressure Limit[1]	psi (MPa)	10,000 (68.9)
Torque Capacity	ft.lbs (N.m)	60,000 (81,300)
Rated Hoist Capacity[1]	ton (tonne)	500 (453)
Maximum Outer Diameter	in. (mm)	13.5 (345)
Tool Length[2]	in. (mm)	70 (1,780)
Tool Weight[2]	lbs (kg)	1,070 (490)
Maximum Flow Rate	US gpm (m³/min)	634 (2.40)
Maximum Rotational Speed	RPM	70
Plug Size[3]	in. (mm)	5-½ (139.7)
Plug Length	in. (mm)	10 (255)
Top Adapter[4]	in.	6-⅝ REG Box
Bottom Adapter[4,5]		Buttress Casing Connection
Plug Launch[6]		Remote Launch
Launch Indicator		Tattle-Tale Flag

Tool Configuration
5-½ in. Plug Release

1. Pressure Limit and Rated Hoist Capacity are based on API Specification 8C.

2. Tool Length and Weight are for the PVPL1-5.5 two stage configuration.

3. Current model launches 5-½ in. plugs. For smaller plug sizes, contact Volant sales.

4. Alternate Top and Bottom Adapters are available, however tool specifications may change depending on connection type.

5. Bottom Adapters are manufactured to the specific size and thread type of the casing. The casing thread is not subject to an API Specification 8C rating.

6. Plugs are launched remotely and if needed, can be manually launched.

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