



Plug Launcher Tool

Volant’s Plug Launcher connects in-line with the top drive quill to enable the release of cement plugs down hole and 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		9-5/8 in. Plug	7 in. Plug ¹
Pressure Limit ²	psi (MPa)	10,000 (68.9)	10,000 (68.9)
Torque Capacity	ft.lbs (N.m)	100,000 (135,500)	100,000 (135,500)
Rated Hoist Capacity ²	ton (tonne)	500 (453)	500 (453)
Maximum Outer Diameter	in. (mm)	20.5 (525)	20.5 (525)
Tool Length ³	in. (mm)	82 (2,085)	82 (2,085)
Tool Weight	lbs (kg)	2,090 (950)	2,280 (1,040) ⁴
Maximum Flow Rate ⁵	US gpm (m ³ /min)	1,000 (3.80)	1,000 (3.80)
Maximum Rotational Speed	RPM	70	70
Plug Size ⁶	in. (mm)	9-5/8 (244.5)	7 (177.8)
Plug Length ⁷	in. (mm)	11.5 (295)	11.5 (295)
Top Adapter ⁸	in.	6-5/8 REG Box	6-5/8 REG Box
Bottom Adapter ⁹	in.	9-5/8 Buttress Casing Connection	7.0 Buttress Casing Connection
Plug Launch ¹⁰		Remote Launch	Remote Launch
Launch Indicator		Tattle-Tale Flag	Tattle-Tale Flag

Tool Configuration
9-5/8 in. Plug Release



1. PVPL1-9.63 tool can be configured to launch 7-9-5/8 in. plugs. To launch 7 in. plugs, additional components are required to narrow the inner bore of the tool.
2. Pressure Limit and Rated Hoist Capacity are based on API Specification 8C.
3. Tool Length represents the PVPL1-9.63 two stage configuration.
4. Tool Weight increases when launching 7 in. plugs due to additional components required to narrow the inner bore of the tool.
5. Flow Rate is specific to 9-5/8 in. plug size.
6. Model launches 7-9-5/8 in. plugs. For smaller plug sizes or compatibility with darts and balls, contact Volant sales.
7. Can accommodate a single plug up to 29.5 in.
8. Alternate Top Adapters are available, however tool specifications may depend on connection type.
9. Bottom Adapters are manufactured to the specific size and thread type of the casing. The casing thread is not subject to API Specification 8C rating.
10. Plugs are launched remotely and if needed, can be manually launched.

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