

Nevis Pipeline Products, LLC.

Ported Pig Launcher Trigger[©]

Nevis Pipeline Products, LLC, based in Houston Texas, is recognized for supplying high quality, specialty pipeline equipment used within the Oil and Natural Gas Pipeline Industry.

To meet a growing industry requirement, Nevis has developed the Ported Pig Launching Trigger to enable the storage and automated launching of multiple pipeline pigs from a single vessel.

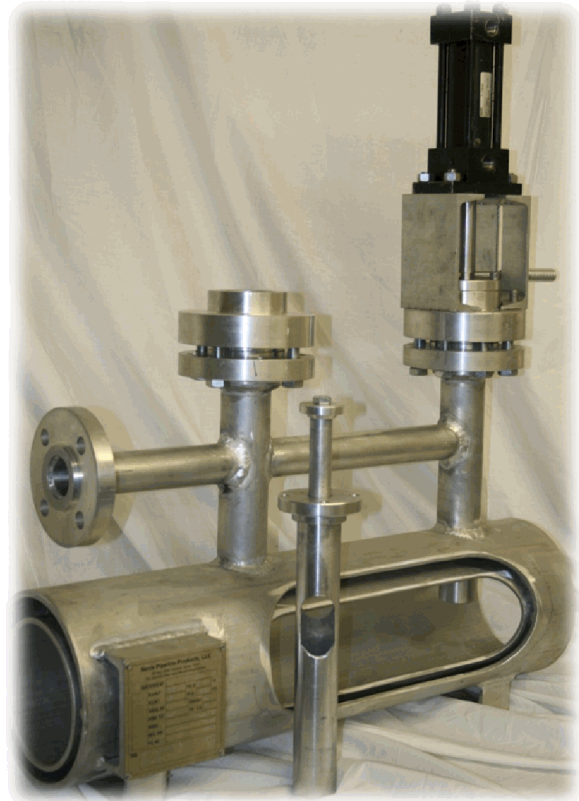
Development of the PPLT focused on the following key aspects –

- Accommodate standard cleaning pigs
- Permit the launching of smart pigs
- Standard trap configuration
- Capable of being operated without local power source.
- Suitable for remote installations
- Eliminate the necessity to depressurize the vessel between pig launching
- Simplicity of design and operation

The heart of the mechanism consists of the Ported Pig Trigger (Pat. Pend.) which both controls the kicker flow between the pig magazine stations as well as providing a mechanical stop for the pigs.

The simple raising of the trigger removes the mechanical stop holding the cleaning pig and then diverts the kicker line flow used to propel the next sequenced pig into the trap minor barrel and the main pipeline.

The ports of the trigger are profiled such that the kicker flow is not diverted to the next sequenced trigger until it is raised clear of the pig circumference thereby preventing damage to the pig.



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Depending on trap configuration, the cleaning pigs are loaded directly within the launching trap housing or a removable magazine with exterior rings to correctly align with the minor barrel. This insures correct kicker flow distribution within the trap to propel the pig and achieve a successful launch.

Operation of the PPLT can either be achieved by electrical, hydraulic or pneumatic actuation depending on site requirements.

For sites without a dedicated power source, the Ported Pig Launcher Trigger can be furnished as a self contained system eliminating the need for a dedicated power source. The completed system will consist of –

- PPLT operated using hydraulic cylinders.
- Hydraulics operated using low voltage 12 / 24V pump and control switches.
- Control panel with various status lights.
- Battery power source with Solar array panel for extended operation
- Pig signaler with electronic passage indicator

Use of standard, commercially available controls, panel and ancillary equipment insures the system can be readily adapted to meet a clients specific requirement.

Launching of a pig can be achieved manually, on a simple timed basis or by virtue of a remote wireless signal combined with confirmed launch signal provided by the pig signaler.

Spacing of the PPLT is typically set to accommodate standard cleaning pigs permitting multiple triggers to be set on a single vessel that has been designed to accommodate intelligent pigging tools. The handling of intelligent tools is easily achieved by the simple raising of all the triggers and operating the trap in accordance with normal procedures.

The simplicity of design enables the PPLT to be manufactured in a broad range of materials, including carbon steel, stainless steel and custom alloys and suitable for a wide range of operating pressures and temperatures.

For additional information, please contact:

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