

Nevis Pipeline Products, LLC

Cross Pin Sphere Pig 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 Cross Pin Sphere Pig Trigger to enable the storage and automated launching of multiple sphere pigs from a single vessel.

Development of the Cross Pin Trigger focused on the following key aspects –

- Heavy duty design capable of withstanding impact loads caused by handling of oversized sphere pigs.
- Versatility in operation to include manual, electric and hydraulic / pneumatic operation.
- Simplicity of design and operation
- Easy of inspection & maintenance

The Cross Pin Trigger is named after the unique virtue of the lower launcher pin extended the full diameter of the trap major barrel and engaging with a socket. This provides the necessary support during initial loading to prevent side loads being imposed on the pig trigger than can lead to failure of packing.

The simple coordinated lower and raising of the triggers permits the sequenced movement of the sphere pigs through the trap major barrel and introduction to the main product line.

Handling of smart / intelligent pipeline inspection tools or standard cleaning pigs is enabled by the simple lifting of triggers providing unrestricted passage.



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Ported Pig Launcher Trigger©

A key consideration for successful launching / receiving of Sphere Pigs is associated with the layout of the trap housing. Nevis can provide proven design solutions for a broad range of application ranging from small industrial systems to large pipeline transmissions systems.

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

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

- Cross Pin Trigger 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 Cross Pin Trigger 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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