

Solutions for Gas Pipelines

PIG Launchers and Receivers



How Sungov Engineering Supports Gas Pipeline Maintenance with Customized PIG Launchers and Receivers

The backbone of the oil and gas industries are its pipelines. It is rightly so because, by far the chief transportation method for oil, gas and its refined products are through the pipelines. It is intuitive and essential to keep the pipelines well monitored and in top shape always. The primary method to do so are using PIGs and the PIG launchers and receivers.

What is Pigging?

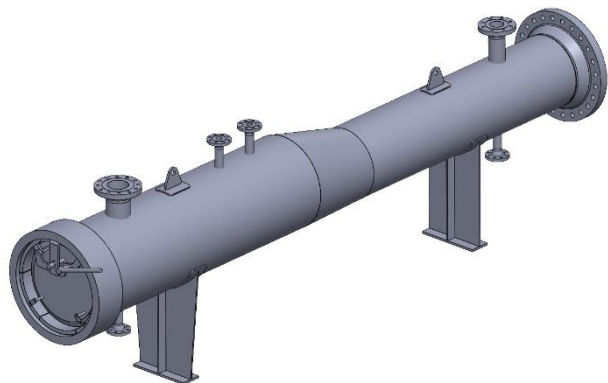
Pigging is the process by which an external device, PIG (Pipeline Inspection Gauge) is introduced for the purpose of cleaning, maintaining and sometimes for inspecting the pipelines. Some of the main uses of Pigging:

- Cleans the pipes
- Helps avoid cross-contamination
- Empties pipes
- Helps separate products, especially in a multi-product pipeline

Traditionally used in the oil and natural gas industry, PIGs are now used in various industrial sites where pipeline is essential. With a much modern type of PIG, better called 'Smart PIG', you can expect special sensors and electronics on them to gather information about the insides of the pipelines for cracks, corrosion, pitting and defects.

Useful Tools for the Process of Pigging

The PIG launcher and receiver also termed as Scraper launcher and Receiver allows easy loading and unloading of PIGs in and out of a pipeline system without causing any interruption to the flow of the medium. PIG launcher or launcher traps are crafts that help in initiating a PIG tool or pipe PIG into the pipeline. The driving fluid then pushes the PIG tool and this process cleans the pipeline through which the PIG tool passes.



Sungov is a designer and manufacturer of engineered industrial equipment and systems for the oil & gas, petrochemical, power and environmental industries. Founded in 1986, Sungov's manufacturing plants hold ISO 9001, ISO 14001, ISO 45001, ASME U, US National Board, Canadian Registration Number (CRN), Indian Boiler Regulations (IBR) certifications. These quality, safety and environmental accreditations coupled with inhouse design and R&D has facilitated Sungov's offerings to be installed in over 35 countries worldwide.

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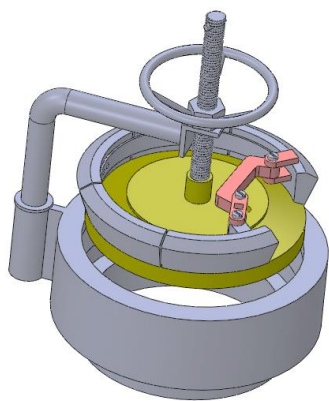
Sungov Engineering is adept at designing PIG launchers and receivers to ensure quick, efficient and most of all, safe operations.

Components of a PIG Launcher/Receiver

The primary components of a PIG launcher and receiver are - quick opening end closure (QOEC or QOC), major barrel, reducer, minor barrel and PIG signaller. In the launcher set up, the quick opening closures are welded to the major barrel which loads the PIG. This is followed by a reducer section that transports the PIG from the major barrel (larger diameter) to the minor barrel (smaller, same diameter as the transport pipeline) and for onward transport of the PIG. In the receiver set up, the construction of components is reversed. You can remove the PIG from the major barrel section through the open QOEC lid.

Our team diligently works on the process parameters including the medium's temperature and pressure to suitably select the materials and its construction design. We can help you design the launcher/receiver to your customized requirements in accordance with design standards like ASME Section VIII Division 1 or ASME B31.3.

Quick Opening Closures



One of the most critical components of launcher/receiver is the Quick Opening Closure. The experienced engineers at Sungov Engineering have designed Quick Opening Closures (QOC) doors that can close swiftly, thanks to the uniquely engineered quick action mechanism. These doors are favourable to access pipelines without conventional tools. Our quick opening closures also come with a pressure warning device along with mechanical safety interlock that prevents accidental opening of closures under pressure.

Further, our proficiency extends to highly engineered closure seals that can withstand extreme temperatures and provides maximum sealing protection for severe applications.



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How can the PIG Launchers and Receivers from Sungov Engineering help your pipeline?

The value adds that Sungov Engineering provides are:

- Safe and practical prerequisite for pipeline connections
- Entry from and to the pipelines
- Accessibility, safety and most importantly swiftness of opening or closing the launchers and receivers
- Complies with the flow, pressure and mechanical parameters of the pipeline

Reach us at info@sungov.com to discuss solutions to maintain your pipelines!



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