

Pigging Services



iNPIPE
PRODUCTS

Providing Pipeline Maintenance Equipment around the world

INPIPE PRODUCTS™ is an acknowledged world leader in the design, manufacture, supply and hire/rental of pipeline pigging, maintenance and testing products.

The company provides a comprehensive range of services covering all aspects of pipeline maintenance, cleaning, repairs, inspection, testing and commissioning.

Custom Pig Design

INPIPE PRODUCTS™ supplies a range of standard pipeline cleaning tools/pigs and a full design review is generally conducted following receipt of pipeline profile details. Bespoke, tailor-made pigs can be designed and fully tested in our range of test loops. Client specific test rigs can be designed and pigs fully tested, often client witnessed, in our test facility. **INPIPE PRODUCTS™** is also pleased to have supported worldwide operators, contractors, pigging specialists and consultants in the whole range of services and manufacturing functions.

Pigs can be purpose designed to conduct specific cleaning functions and then fully proof tested; for example, the recently developed and patented wet-buckle insertion pigs designed and supplied in a range of sizes.

Heat Exchanger Tube Plug Systems

INPIPE PRODUCTS™ produces a range of tube plugs, which are used in heat exchangers to maintain a safe and leak-tight seal under the most severe operational conditions. Heat exchanger tube plugs are used in leaking tubes or as a preventative seal.

Fundamental to the **INPIPE PRODUCTS™** tube plug design is simple, quick and safe installation together with extreme durability ensuring the rigorous operational lifetime of the product. These can be supplied simply as products or a full service/installation option is available together with bespoke range of plugs which can be designed to accommodate the very highest operating pressures/temperatures in a range of exotic materials depending on application.

Pipeline Cleaning

Pipeline cleaning should be undertaken on a regular basis depending upon the chemistry of the field, flow rate, wax pore point and pipeline temperature. The main purpose of this activity is to minimize the build up of wax and scale on the pipe wall in crude oil pipelines, to remove scale and liquids from gas pipelines in order to maintain optimum flow rates and maximize throughput whilst at the same time minimize deposition.

Sectors we work in





Pipeline Decommissioning

Pipeline decommissioning, or pipeline abandonment programmes are extensively used for pipelines, especially in the oil and gas industries. The process involved in these programmes includes steps such as pigging, flushing, filling and plugging of the pipeline. Removal or abandonment is the next step in the process.

iNPIPE PRODUCTS™ has a number of pigging tools which are extremely effective in the decommissioning of pipelines:

- Abandonment Plug: Permanently seals a pipeline during decommissioning. The Abandonment Plug has a minimum design life of 30 years or longer dependent upon client specification and materials.
- Hyperbaric Spheres: Used to ensure a dry sub-sea hyperbaric pipeline tie-in or repair where subsequent radiographic inspection is required.

Pipeline Inspection

Pipeline inspection is an essential activity to better understand the condition of any pipeline, ultimately to ensure that all assets are fully operational with a long life cycle.

iNPIPE PRODUCTS™ can supply a range of both standard and custom cleaning and tracking/location tools that can be used in this initial phase of pipeline cleaning, including but not limited to:

- Bidirectional and cup type cleaning tools - these can be fitted with circular wire brushes, spring mounted brushes, tungsten carbide studs, aluminium gauge plates both solid and segmented, through bypass to minimize build up of debris ahead of the cleaning tool and jetting heads.

- Long bodied tools can be designed to accommodate a whole range of pipeline features such as numerous consecutive off takes, wye features or swing check-valves be supplied fitted with either discs or cups to enable them to traverse swing check valves or wye sections.
- All the above can be fitted with radio-active source materials, electromagnetic transmitters, acoustic transmitters, magnets or a combination of all tracking systems to enable the cleaning tools to be tracked while traversing the pipeline section being cleaned.

Pipeline Maintenance

Pipeline maintenance is an essential element of running any asset or pipeline to maximum operating efficiency and consequent maximum profitability. It allows asset owners to maintain maximum flow through a pipeline without losing product through leaks, reducing flow as a result of blockages, build up or debris as well as ensuring a high quality product.

Pipeline pigging is an integral process within pipeline maintenance. It is used to clean, investigate, maintain pipelines and solve problems. It has significant benefits for the longevity of pipelines as well as the quality of the medium in the pipeline.

Pipeline Testing

Also known as hydrostatic testing, pipeline testing is used to test the integrity of a pipeline. This is used in the commissioning stage as well as during pipeline maintenance programmes. The pipeline products used during this process include pipeline plugs and testers.

Furthermore, regular testing is used for safety compliance standards and increasing the lifespan of the pipelines which also leads to reduced costs in resolving urgent problems and a high quality product with maximum flow as a result.

- Pipeline testing uses pressure indicators to assess the integrity of a pipeline. After construction or repair, this is very important to make sure that the product will not be lost through leaks. This is crucial for gas pipelines as loss of pressure can result in explosions.
- Pipeline isolation is used to section off a piece of pipeline for repair. The product is isolated from the section using Pipeline Plugs. After the pipeline repair has been undertaken, the section of pipeline will undergo hydrostatic testing to ensure the pipeline's integrity.

Speciality Pigging Solutions for Unpiggable Pipelines

INPIPE PRODUCTS™ has developed a whole range of products and services for pigging “unpiggable pipelines”, typically pipelines are designed without the traditional launching and receiving facilities.

The company has a range of traditional launchers and receivers for hire together with temporary launchers/receivers incorporating the innovative tyre sealing connection detail. In addition to the various temporary plant application details the company has also developed unique processes/materials, including gels, abrasive slurries and fibre additives, which can be introduced to the pipeline through smaller nozzles and then subsequently removed these further downstream.

The company conducts constant research and development into alternative pigging methods; for example, the use of ice pigging for potential decommissioning pipelines. Successful trials using ice pigging indicate that it is much more efficient than simple water flushing and that it can hugely reduce the quantities of waste, decontaminated water to be safely disposed if applied properly. Trials of ice pigging has also indicated that the process is capable of some wax removal in test loops.

For further details, visit our ice volume calculation section on www.inpeproducts.com, which provides indicative ice volumes based on pipe internal diameter, length of pipe, ambient temperature amongst other critical design consideration.

Training

INPIPE PRODUCTS™ provides comprehensive training courses of excellent quality.

The tutorial sessions provide individuals with an understanding of pigging / pipeline / isolation / testing and its applications. Training tutorials can be conducted at our UK factory or at client's sites if required. Project/product specific certificates are issued upon successful completion of the course.



Test loop for proof testing of pigs at iNPIPE PRODUCTS™ North Yorkshire facility



Proof testing of 48" cup design variants

PIGGING SERVICES

Alongside our extensive product range, **iNPIPE PRODUCTS™** also has the capacity to offer custom engineering solutions and services.

DELIVERY

iNPIPE PRODUCTS™ is based on a 6 acre site housing all engineering, manufacturing and testing disciplines in 3 specific bays to ensure accurate project control and on time delivery all over the world.

The company has developed significant logistics skills and expertise to ensure that goods are shipped quickly, customs cleared and delivered to client's sites efficiently anywhere in the world in the shortest possible time.

Right first time ensures **iNPIPE PRODUCTS™** as the premier supplier of pigging products and services for over 30 years.

SERVICE

iNPIPE PRODUCTS™ provides pigging support services and tailored solutions for technically challenging pipeline conditions.

By precisely meeting our client's requirements and providing a turnkey solution, we have gained a significant reputation with major operators and contractors worldwide.

The company offers a flexible support approach which includes design, manufacture, test and operate to offer a full turnkey project dependent upon specific client requirements. We often design and manufacture for some of our perceived competitors who brand our products as their own, perhaps the highest accolade to our technical excellence, quality and on time delivery.

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