



Providing Pipeline Maintenance Equipment Around The World.

iNPIPE PRODUCTS™ consistently produces unrivalled products in terms of quality, performance and delivery. By precisely meeting its clients' requirements and providing effective solutions, we have gained a significant reputation with most major operators and contractors worldwide within the oil, gas and water sectors.



 **iNPIPE
PRODUCTS**



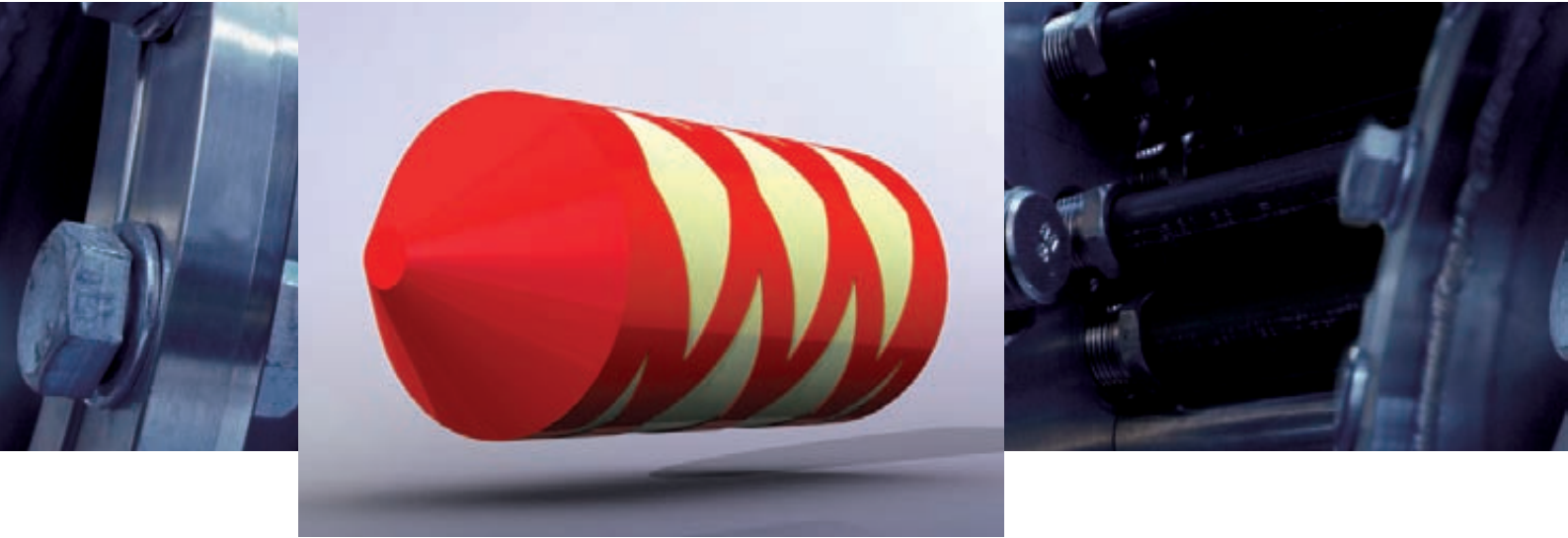
Introduction to Pigging

Pigging is an operation used to maintain a pipeline's integrity. By regularly cleaning a pipeline and removing wax, scale and water from oil lines and condensate from gas lines ensures that the pipeline can be operated to its optimum capacity and maintain maximum throughput. By pigging a pipeline regularly, its lifecycle can be significantly increased. Regular maintenance pigging also prevents problems occurring so downtime can also be substantially reduced. Moreover, profit is increased as a planned pigging programme of cleaning and maintenance will ensure maximum throughput.

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Foam Pigs



Foam Pigs are used to remove any light deposits that have built up on pipeline wall which may be restricting flow. Probably the UK's largest manufacturer of Foam Pigs, **INPIPE PRODUCTS™** have considerable in-house experience and offer a comprehensive range of Foam Pigs. We also offer an advisory service and can engineer customised products to solve the majority of operational problems.

- Used for maintenance, proving, drying, pre-commissioning & de-commissioning
- 3 standard foam densities; bespoke densities by consultation
- Can travel up to 250 kilometres
- Traverses various most pipeline features
- Reduces up to 50% diameter (depending on density)
- Manufactured to suit most pipelines
- Can be used on pipelines which were not originally designed for pigging activities
- Can be customised to meet clients requirements



Cup Pigs

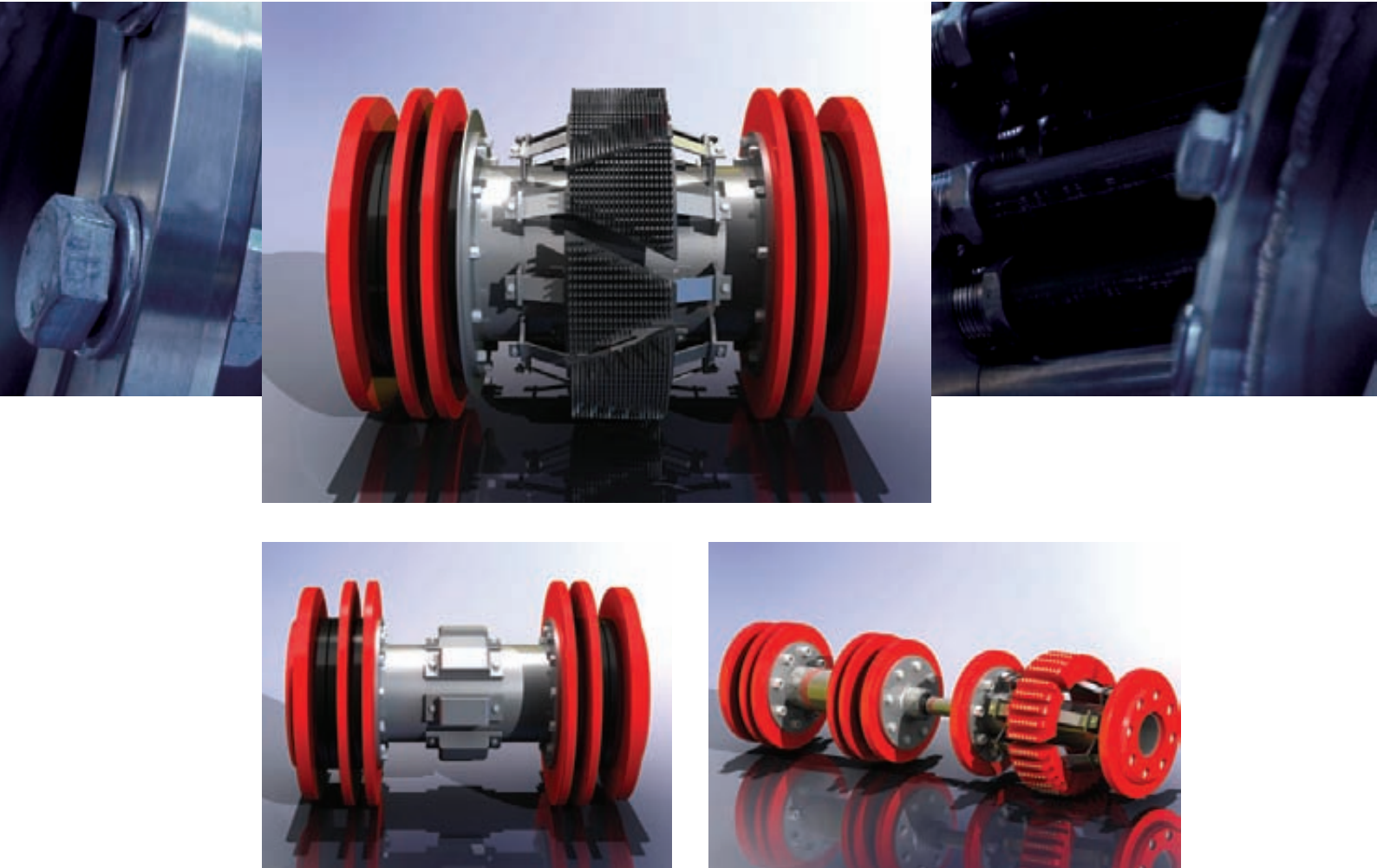


A standard pig consisting of polyurethane drive cups which are manufactured oversize to the diameter of the pipe and suitable for uni-directional pigging applications.

- Flexible lip which is self energising giving a high seal against the pipewall and to limit by-pass
- Used to both fill and evacuate pipelines prior to and after hydrostatic testing
- Used to prove pipelines are free of debris and damage
- Separation of products in multi-use pipelines
- Decommissioning process
- Accessories can include (but are not limited to) brushes, plough blades, gauging plates, magnets, transmitter housings, acoustic pinger housings and isotope housings
- Can incorporate a by-pass facility to control velocity and debris removal
- Replaceable components

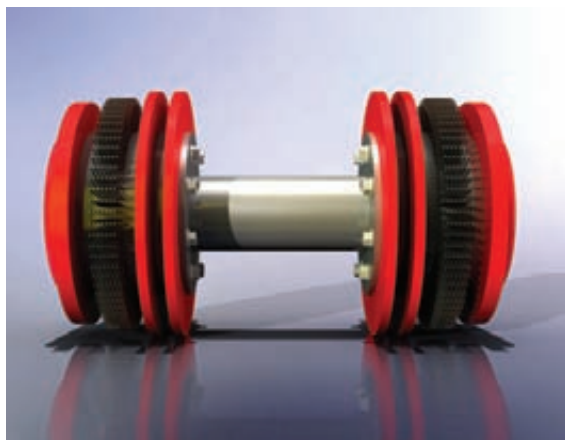
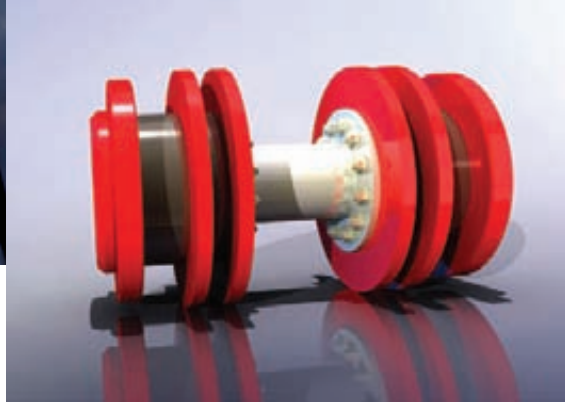
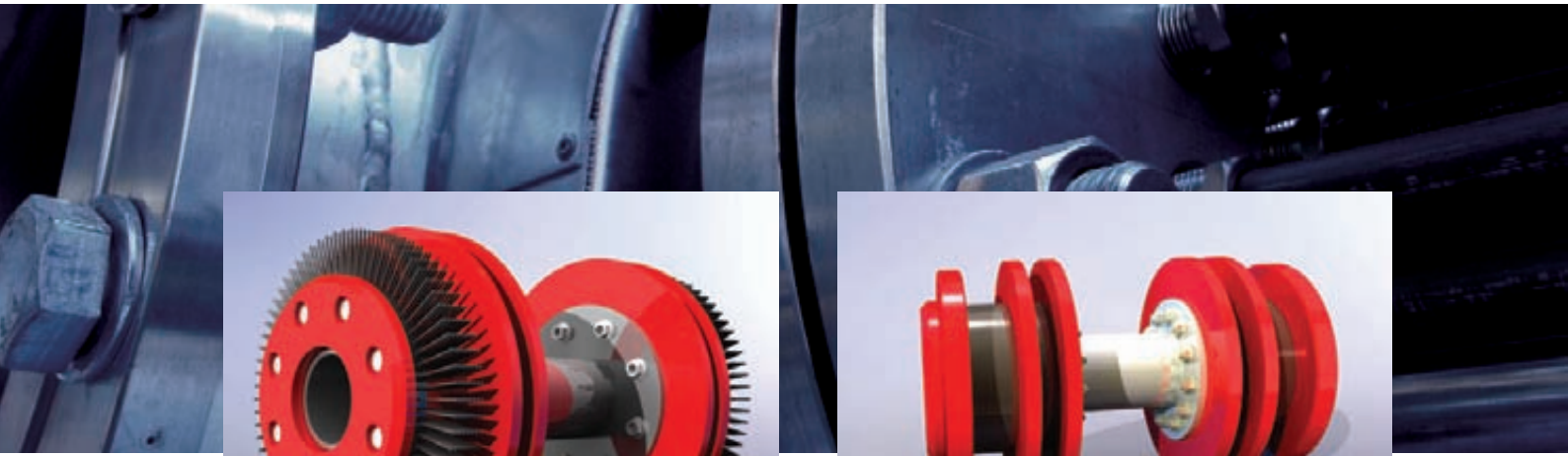


Disc Pigs

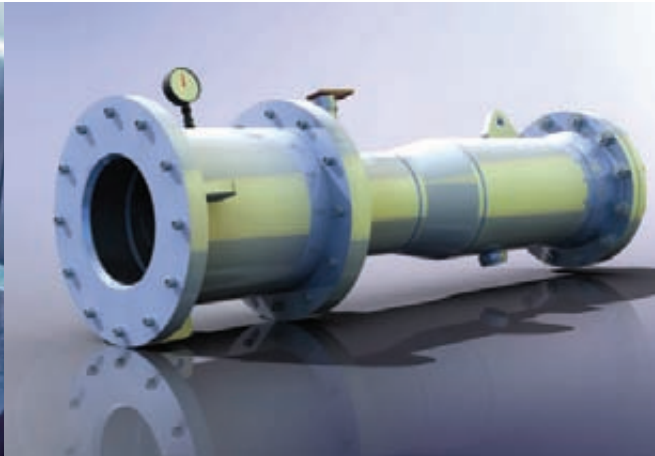


IPHS range of cleaning tools has been developed to bi-directionally pig a pipeline to ensure effective removal of fluids and debris. The **INPIPE PRODUCTS™** IPHS Pig range is an ideal tool for water filling, evacuation and also product batching.

- Designed to suit individual pipelines
- Bi-directional capability
- Spindle bodied and multi-bolt designs, dependent on size
- Accessories can include (but are not limited to) brushes, plough blades, gauging plates, magnets, transmitter housings, acoustic pinger housings and isotope housings
- Can incorporate a by-pass facility to control velocity and debris removal
- Replaceable components
- Efficient at removing water and debris
- Ideal for water filling prior to hydrostatic testing, evacuation and batching



Special Products



Innovation is at the core of **iNPIPE PRODUCTS™**, with 10 patented products which are now regarded as an industry standard and investment into R & D and new products is actively encouraged. Working with our clients, our experienced team of professionals develop bespoke solutions alongside our standard product range.



Portable Temporary Pig Launcher

Designed to overcome the restrictions of adding a launcher to pipelines with limited space or difficult environments. With multi-schedule capability.



Star Wheel Pig

Developed to provide an effective cleaning tool for the removal of soft wax-like deposits, in particular from internally coated pipelines.

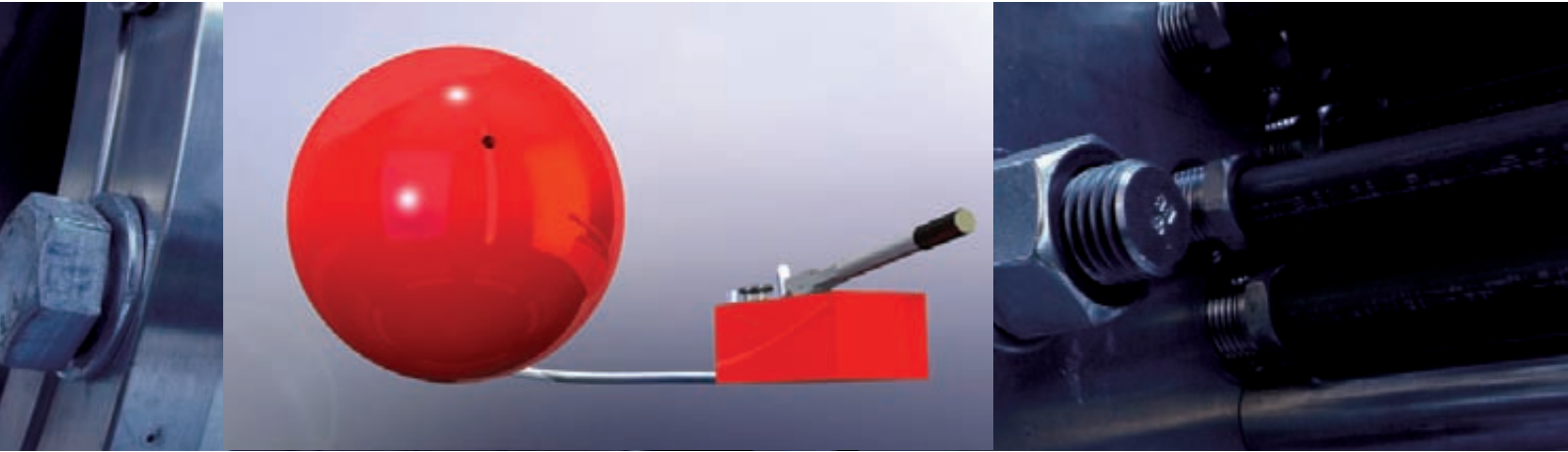


Articulated Pig

Designed for negotiating long radius weldells (bends) **iNPIPE PRODUCTS™** can offer many variations of articulated pigs. These can include a number of different pig models connected with a range of joints. Lightweight models are also available.

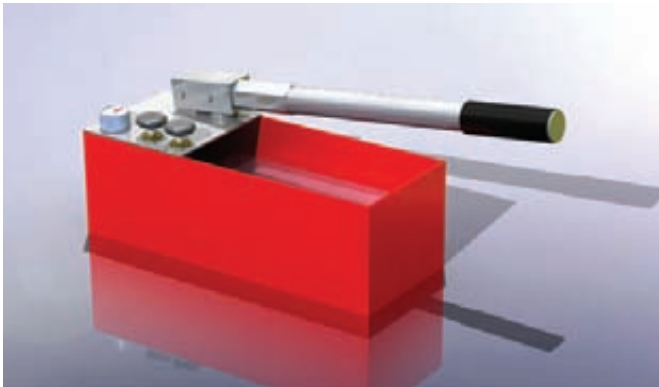


Spheres

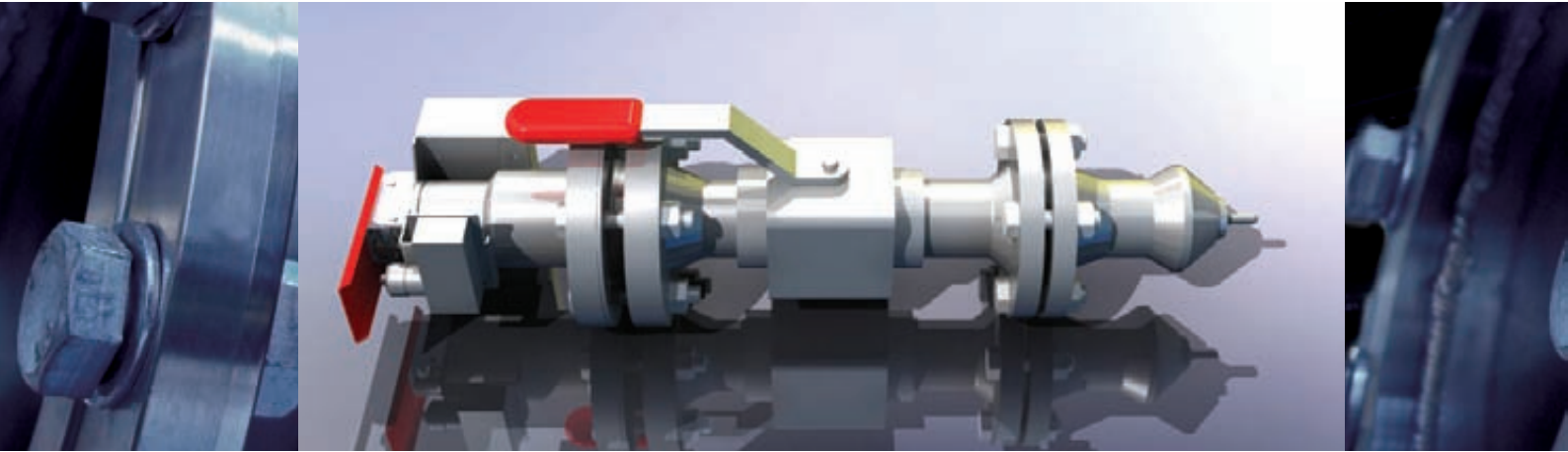


Used for separation or batching, **INPIPE PRODUCTS™** pipeline spheres are usually filled and inflated using a water/glycol mix. The recommendation for inflation is generally up to 5% on the uninflated diameter of the sphere.

- Solid spheres – 2" – 16" ns
- Inflatable spheres – 3" and above
- Weighed spheres available from 6" through 12"ns
- Generally used for liquid removal from wet gas lines
- Also used in meter proving activities
- Manufactured from high quality polyurethane elastomer the spheres can deform to pipeline geometry and the lifespan of the sphere can be increased by correct inflation
- Capable of traversing short bends



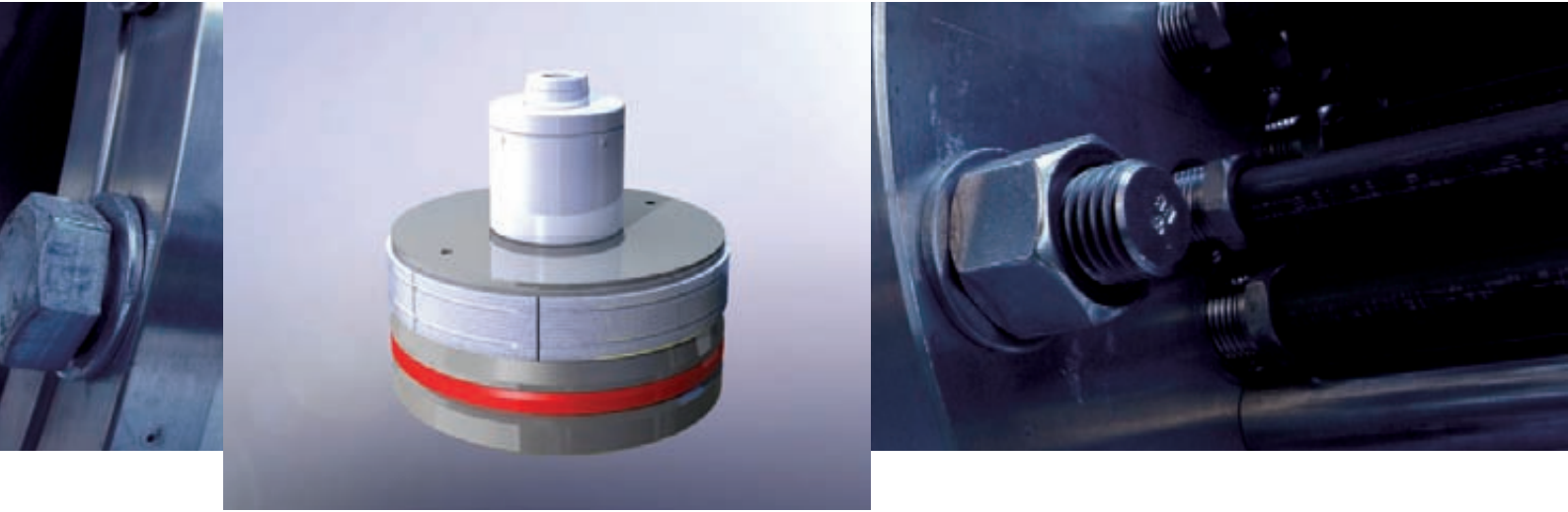
Signaller (Monitor)



The **INPIPE PRODUCTS™** Signaller (Monitor) has an omni-directional trigger unit. Notably the best in the marketplace, it is impossible to install incorrectly. This inventive product overcomes limitations of earlier devices and is used worldwide as a trusted means for indicating the passage of a pig.

- Can be used with foam pigs, metal bodied pigs and spheres
- Maintenance free
- Easy installation
- Suitable for every pipeline
- Omni-directional trigger and welding boss
- Indicator flag is rotatable in 90° increments
- Available in over 70 variations ranging from boss, flange or valve mounted units
- Offered either as mechanical visual or mechanical visual electrical or just electrical signalling and is available with a mechanical counter
- No dynamic seals
- All wetted moving parts are manufactured from stainless steel
- Designed to prevent ingress of debris and water
- Can be retro fitted into existing welding connections to replace worn or defective units
- Sub-sea applications available

Plugs



iNPIPE PRODUCTS™ pipeline plugs range from simple airbags and stoppers for gas seals to high pressure pipe plugs which utilise the *iNPIPE PRODUCTS*™ patented Posi-seal technology to provide an effective seal up to a maximum pressure of 450 bar.

- High, Medium and Low pressure plugs available
- Designed for horizontal and vertical applications
- Hydraulic versions available for remote locations
- Reduces cost of materials and labour.
- Additional flanges are not needed to carry out hydro testing
- Easy to use and there are no special tool required

Hyperbaric Pig



Hyperbaric Pigs were designed in conjunction with a major oil company and an international diving contractor to ensure a dry sub-sea hyperbaric pipeline tie-in or repair where subsequent radiographic inspection is required. Capable of holding a minimum differential pressure of 2 bar, the Posi-seal design ensures a high product integrity with easy installation and a positive seal.

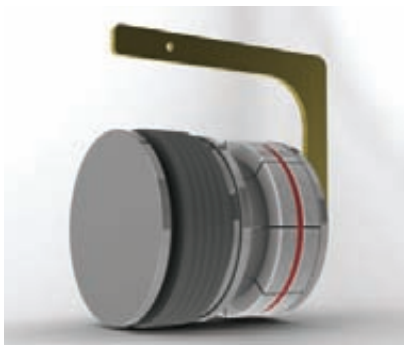
This hyperbaric welding system requires the positioning and subsequent inflation of **INPIPE PRODUCTS™** Hyperbaric Posi-seal Pigs in each section of the pipeline or pipeline and riser by qualified personnel. This then allows for a habitat to be positioned around the welding area and the water evacuated by using a helium/oxygen gaseous mixture to create a safe working environment for the diver.

On completion of welding, welds are subsequently radiographed and the Hyperbaric Pigs are propelled from the pipeline using conventional pigging methods.



Piggable Plug

Incorporating the proven design of the Bi-Directional Pig and the patented inflatable Posi-tyre, the unique Piggable Plug can be pigged to a pre-determined location and inflated to provide guaranteed isolation of up to 8 bar differential pressure. This allows maintenance or repair works to a localised area of pipeline before the Piggable Plug is pigged from the pipeline. Available in sizes 4" to 36"

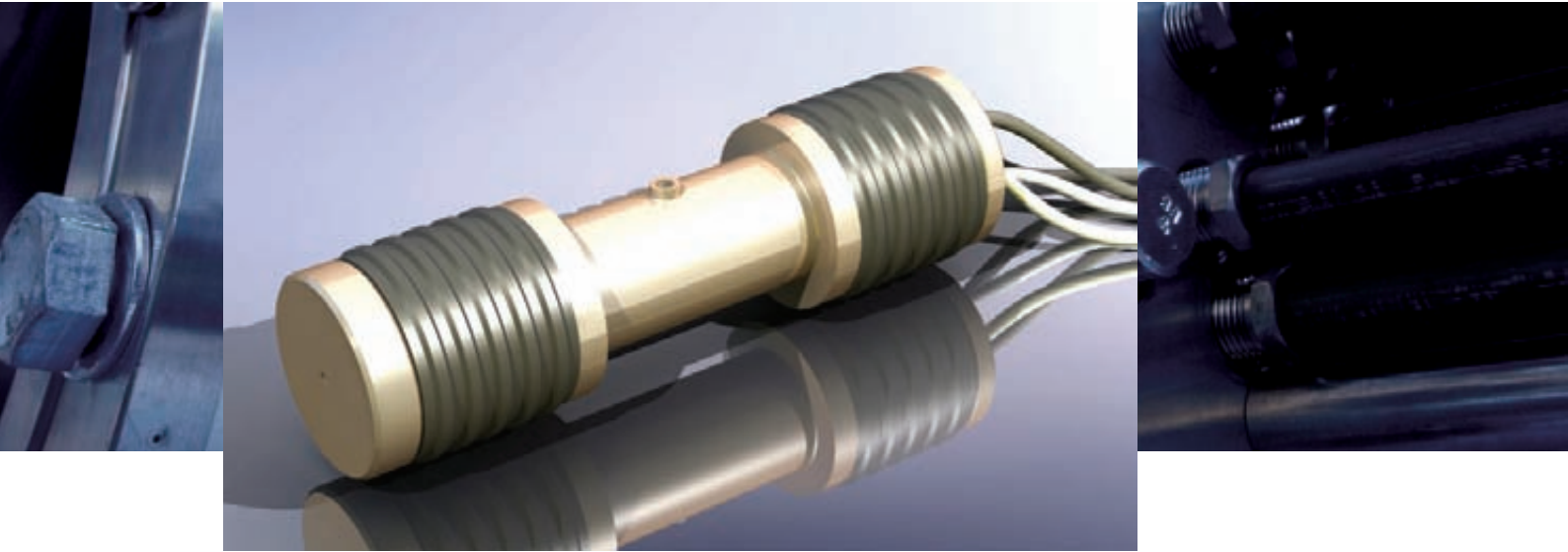


Abandonment Plug

INPIPE PRODUCTS™ as a market leader in the design and manufacture of Abandonment Plugs which are used to permanently seal a pipeline during decommissioning.

The plug comes with a 30 year design life and has been successfully installed in the North Sea in size 10" through 36"

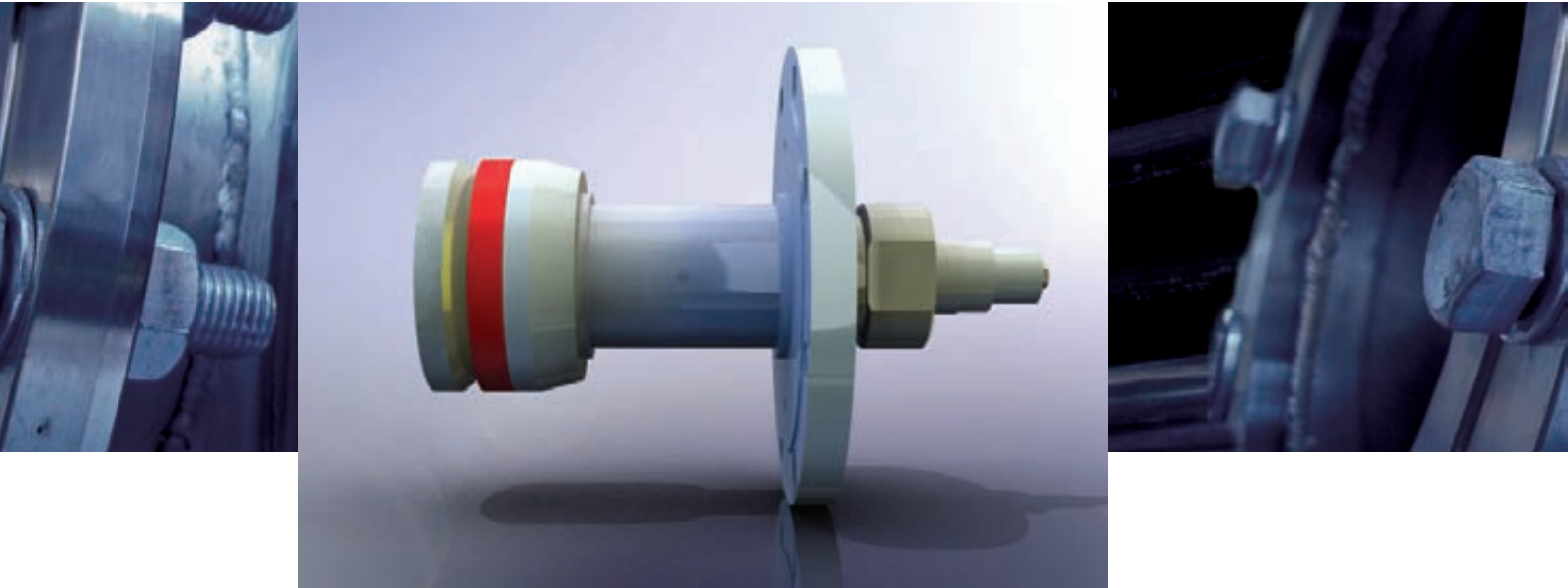
Isolation Tools



In hydrocarbon environments where hotwork can be extremely hazardous, **INPIPE PRODUCTS™** have developed a tool which not only creates a safe double isolation against hydrocarbon vapour but can also test the weld created; Dual Tool.

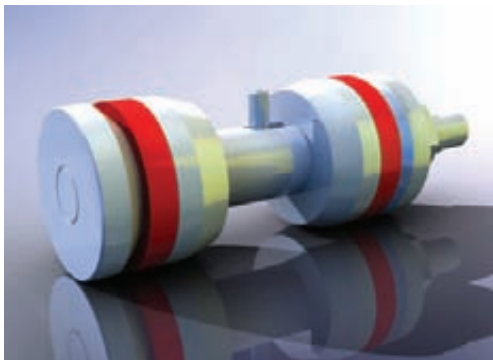
- Will hold a differential pressure of up to a maximum of 5 bar
- Central by-pass facility to vent gasses
- Tool provided with flexible stainless steel braided hoses, gauges and isolation valve
- Central cavity can be used to hydrostatically test to a maximum of 76.5 bar
- Removes the need to hire an isolation tool and weld tester
- Can handle both pipe ovality and excessive weld beads
- Can be used in a range of pipe schedules
- Easy to use and there are no special tools required
- Specified in a number of UK refineries procedures

Weld Testers



iNPIPE PRODUCTS™ Weld Testers are based on well established principles used in the design of the Posi-seal Stopper and are manufactured to overcome the environmental constraints of the industry. Flange Weld Testers and Internal Weld Testers are used to hydrostatically test the integrity of new and existing welds.

- Creation of a test cavity around the weld area
- Eliminates the requirement to flood the entire pipeline section
- Patented Posi-seal
- Both manual and hydraulic units available
- Can be used for both horizontal and vertical applications
- Easy to use and there are no special tools required
- Save time, money and resources
- Utilised for pressure vessels, manifolds, headers, process plants and pipeline systems





iNPIPE HIRE™

iNPIPE HIRE™ has an extensive range of simple, easy to use tools for pipeline testing and isolation applications which provide a cost effective solution. Incorporating our unique and patented Posi-seal technology, this specialist equipment offers a safe working environment whilst being cost effective and saving both time and resources.

iNPIPE HIRE™ fleet is one of the largest in the UK and includes:

- Flange Weld Testers
- Internal Weld Testers
- High, Medium & Low Pressure Pipe Plugs
- Twin-Tyred Posi-seal Plugs
- Dual Tools
- Blind Flanges
- Hoses
- Pressure Pumps
- Manifolds
- Flange Spreaders
- Gauges

Competitive prices are offered for both short and long term hire periods

Complementary products are available from **iNPIPE PRODUCTS™** which can be used in conjunction with all Hire items. These include but are not limited to pipeline cleaning and maintenance products, pig signallers, pig launchers and pig receivers.

For further information with regard to our hire products please contact our hire team on +44 1748 834577 or visit our dedicated website www.inpipehire.com





iNPIPE PRODUCTS™ offers the latest in cutting edge technology, with design and manufacturing capabilities in-house.

iNPIPE PRODUCTS™ facilities allow for the manufacture and production of both standard and customised products, with turning and forming machinery for the production of high quality machined parts.

iNPIPE PRODUCTS™ places emphasis on providing client-led solutions and offering a full advisory service.

iNPIPE PRODUCTS™ provides an unrivalled product range that includes Metal Bodied Pigs/Scrapers, Foam Pigs, Spheres, Weld Testers, Pig Signallers as well as Launching and Receiving hardware. We are world leaders in the design and manufacture of pigging, pipeline pigging and pigging components.

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