

Inline MPS-2 Magnetic Pig Sensor



Each Inline MPS-2 features:

- ◆ Detects embedded magnets in Inline VIPRS Pig;
- ◆ Two separate Hall Effect magnetic sensors;
- ◆ Detects pigs in both parked and moving positions;
- ◆ Suitable for use in both carbon and stainless steel applications;
- ◆ Signal conditioning control circuit;
- ◆ Easy to read LED indicator;
- ◆ Solid state output relay;
- ◆ Low, Medium and High sensitivity settings;
- ◆ Rugged, internally-potted aluminum housing
- ◆ Available in NEMA 4x and Explosion Proof Housing.

Typical Uses for Product Recovery

- PHARMACEUTICAL
- ESSENTIAL OILS
- FOOD AND BEVERAGE

Soft Drinks
Dairy (cheese, yogurt, ice cream, margarine...)
Baby Foods
Pet Foods
Brewing

Versatile - Can be changed to adapt to any piping requirements

- Manual or totally automated
- 3A dairy grade compliance
- Fits existing systems
- Simple design - trouble free operation
- Optimal use of piping

Product Batching - fully utilize single pipe

When a single pipeline is used for many products (e.g. different flavored yogurt), a cleaning cycle has to take place between each product or the interface sent to waste.

The Inline VIPRS Pigging System can be set up to run VIPRS Pigs between products, to fully evacuate the first product and avoid contamination with the next. Multiple VIPRS Pigs can be run continuously to separate a number of products therefore fully utilizing a single pipe section. Wastage of the contaminated interface would be avoided or entire CIP cycles eliminated, thereby saving cleaning fluid and reducing the amount of effluent that has to be processed. Again, valuable product is recovered as opposed to adding to effluent charges.

Turn Key Service Available

From initial design to fit your application, engineering, installation, testing, and commission Inline offers a complete package in partnership with The Complete Companies of Lake Orion, MI.

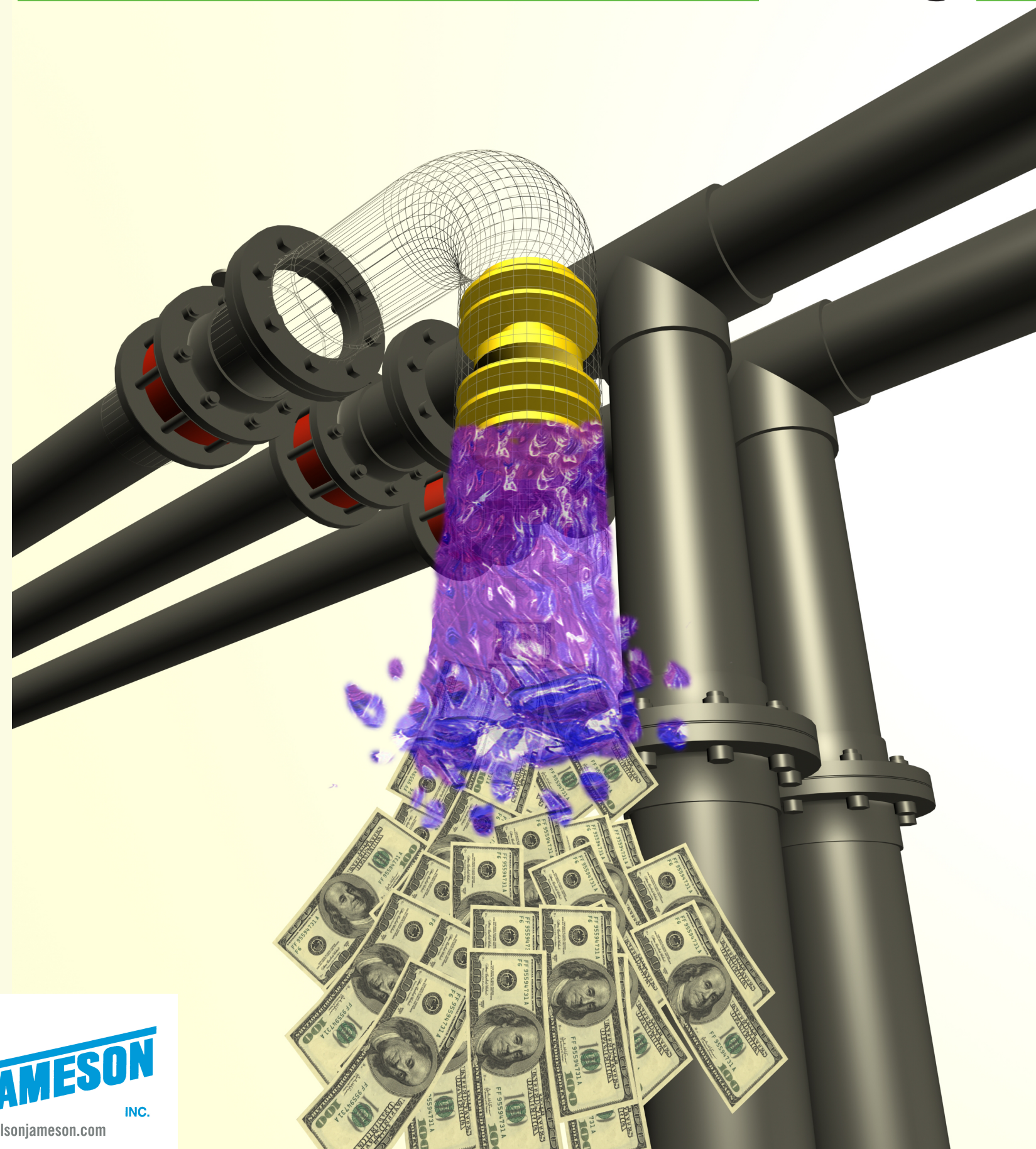


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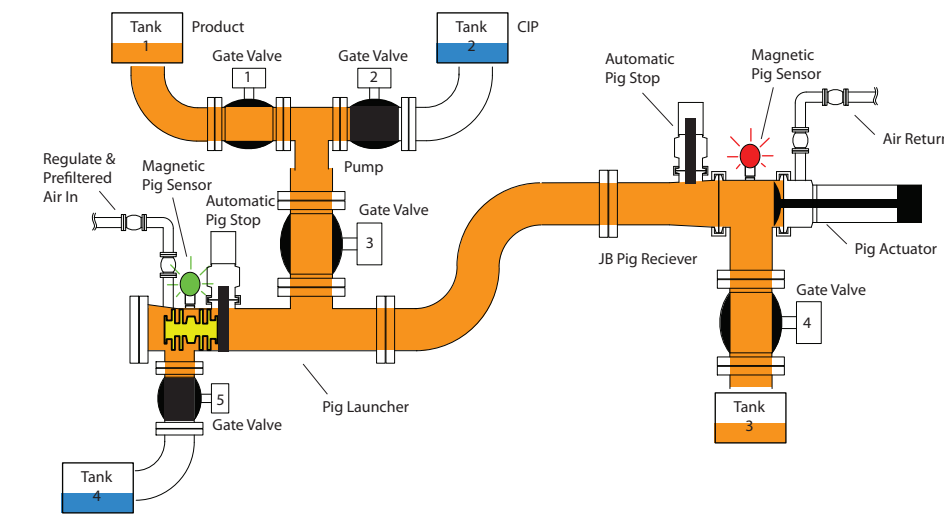
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Hygienic Product Recovery Systems

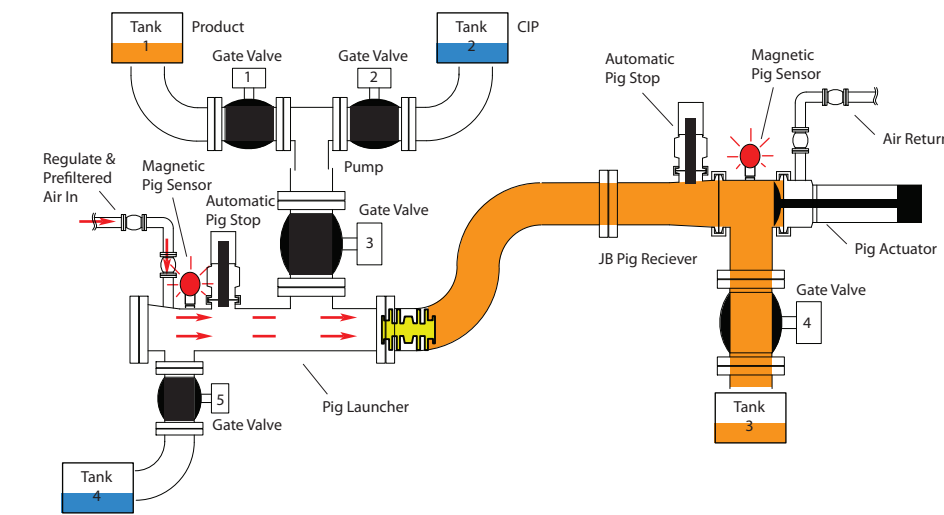


Fully Automated VIPRS System Bi-Directional Process Pigging



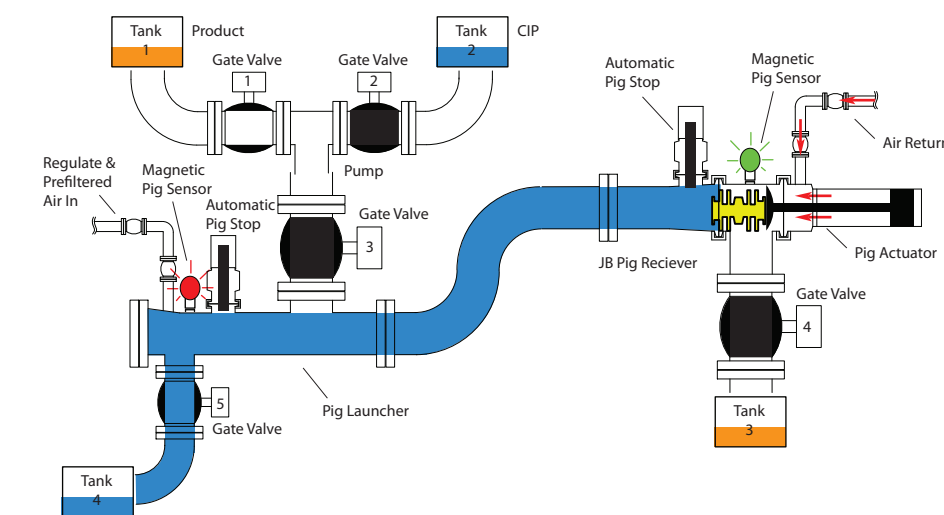
Stage 1:

- ◆ VIPRS Pig is at the home position in the Pig Launcher.
- ◆ Product is pumped from the storage tank to the destination.



Stage 2:

- ◆ VIPRS Pig is launched to push remaining product to destination.
- ◆ VIPRS Pig is captured in the VIPRS Wash Chamber at destination station.



Process 3:

- ◆ CIP solution is pumped through the line to the Wash Chamber.
- ◆ VIPRS Pig is cleaned along with the complete Process System during CIP.
- ◆ VIPRS Pig pushes the CIP solution out of the piping.
- ◆ Process System and Pig is clean and ready for another product run.

Maximize Efficiency Using Product Recovery

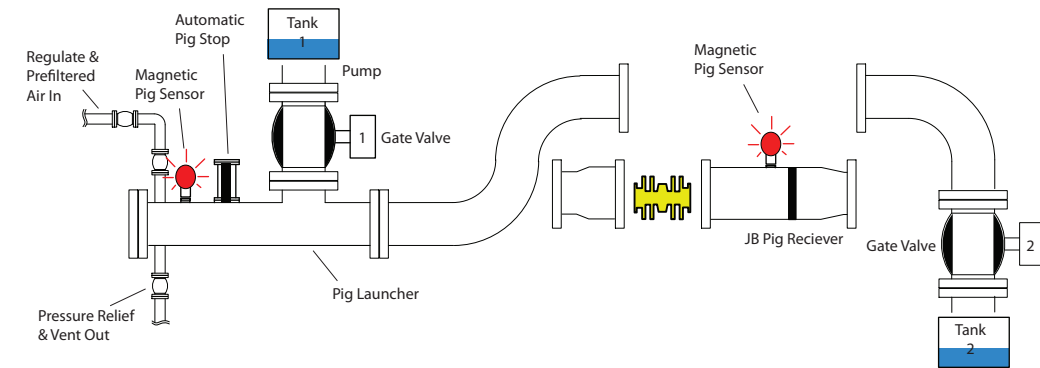
- ◆ Loss of raw material minimized - more saleable product
- ◆ Conventional CIP procedures optimized - reduction in energy costs
- ◆ Frequency of CIP cycles reduced - time related savings
- ◆ Quantity of effluent reduced - saving in waste treatment costs
- ◆ Optimize asset - run multiple products in single pipe
- ◆ Closed system pig remains in the line

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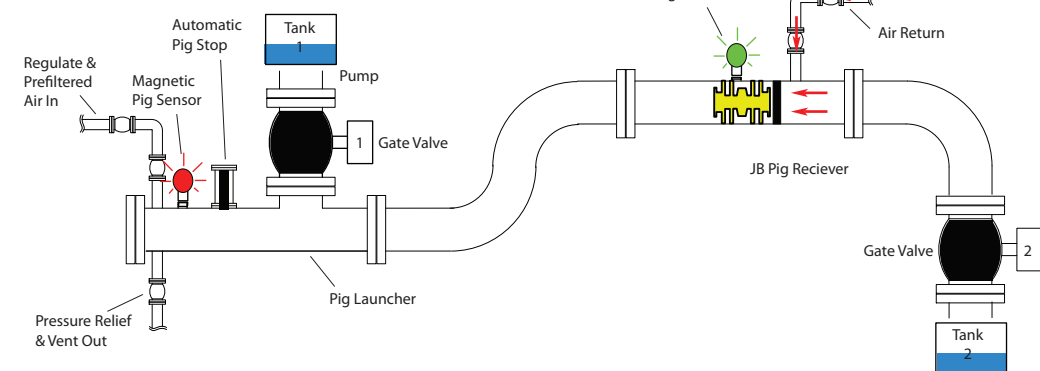
Simple Pigging System in Single & Bi-Directional Process

Single Direction Pigging



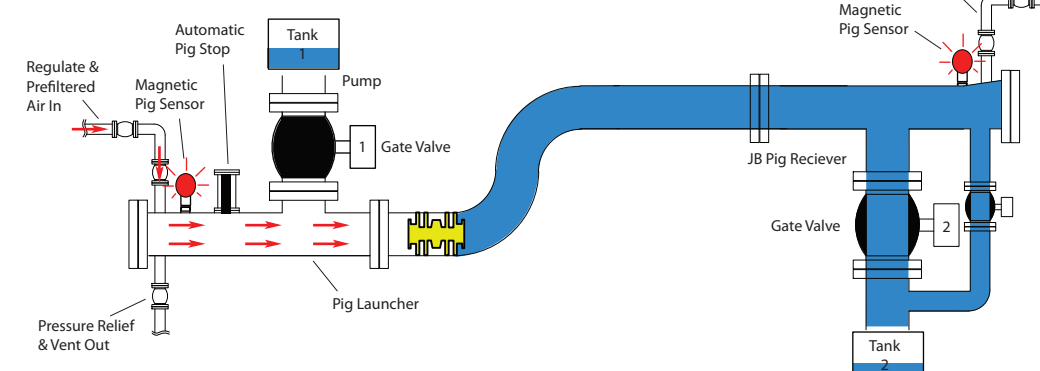
- ◆ VIPRS Pig is in the launcher as product is run through the pipeline to destination.
- ◆ At the end of the product run, the VIPRS Pig is launched to remove all product from the line.
- ◆ When VIPRS Pig reaches the receiver the propelling media is turned off.
- ◆ Receiver is dropped out of the run pipe, opened and VIPRS Pig removed.
- ◆ Receiver is placed back into position; VIPRS Pig is cleaned and put back into launcher.

Bi-Direction Pigging



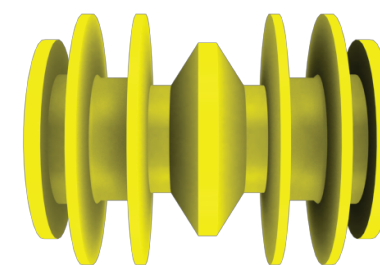
- ◆ VIPRS Pig is in the launcher as product is run through the pipeline to destination.
- ◆ At the end of the product run, the VIPRS Pig is launched to remove all product from the line.
- ◆ When VIPRS Pig reaches the Jail Bar Receiver the propelling media is turned off.
- ◆ VIPRS Pig is resting at the jail bar in the JB Receiver; propellant is used on receiver side of the pig to return pig to the launcher.
- ◆ VIPRS is now back at launcher in position for next product run.

Single and Bi-Directional Pigging



- ◆ VIPRS Pig is in the launcher as product is run through the pipeline to destination.
- ◆ At the end of the product run, the VIPRS Pig is launched to remove all product from the line.
- ◆ When VIPRS Pig reaches the Receiver with closure/flange the propelling media is turned off.
- ◆ VIPRS Pig can be removed by opening the closure/flange or kept in the system and returned to the launching position with propelling media.
- ◆ VIPRS is now back at launcher in position for next product run.

VIPRS PIGS



VIPRS PIG

Inline Services' VIPRS
Flexible - Versatile - Bi-directional

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Specifically for Sanitary Applications

- ◆ Dairy
- ◆ Pharmaceutical
- ◆ Food
- ◆ Beverage
- ◆ Edible Oils
- ◆ Any Sanitary Application

Features and Benefits

- ◆ Cleanability in CIP operations.
- ◆ Provides a smooth, tight squeegee action while traversing elbows with radius as sharp as 1.5D
- ◆ Batching and liquid removal at pressures as low as 15 psi
- ◆ Accommodates variations in pipe Id's of the same nominal size
- ◆ Available in food grade polyurethane compounds for pipe and tubing sizes though 6".
- ◆ Also available in silicone.

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