

The background of the entire image is a complex industrial scene. It features large, metallic gears of various sizes, some in sharp focus and others blurred. A network of pipes, valves, and mechanical components is visible, with a prominent horizontal pipe across the upper half. A large, vertical pipe on the right side is shown with a thick, golden liquid being poured from it. This liquid falls into a large pile of US dollar bills, primarily \$100 bills, which are scattered across the bottom right portion of the image. Several small, glowing golden spheres are also visible, floating or falling within the scene. The overall color palette is dominated by metallic greys, oranges, and the green and white of the currency.

PRODUCT RECOVERY PIGGING & LUBRICANT MANUFACTURING

The logo for PIGGING SOLUTIONS features a stylized, 3D-rendered letter 'P' in white and orange. The 'P' is composed of two parts: a white upper curve and an orange lower curve that forms the stem. Below this graphic, the word 'PIGGING' is written in a large, bold, white sans-serif font. Underneath 'PIGGING', the word 'SOLUTIONS' is written in a smaller, orange sans-serif font, followed by a small trademark symbol (TM).

PIGGING
SOLUTIONS™

www.PIGGINGSOLUTIONS.com



PIGGING & LUBRICANT MANUFACTURING

Without line flushing, cross-contamination risk and excessive dedicated piping, Pigging Solutions pigging systems provide the capability to transfer your valuable products between mixing/blending, storage, filling, and bulk loading and unloading. The pigging systems we design can recover over 99% of trapped yet still saleable lubricant product within transfer lines which leaves the pipe walls clean and the transfer line ready for the next product.

We work directly with our clients to design systems meeting their specific application needs and can accommodate challenging applications such as high temperatures, thick viscosity, and wide ranging formulations.

What are the benefits to you as a lubricant manufacturer?

- + Recovery and sale of previously lost lube product from transfer lines
- + Significantly reduce or eliminate transfer line flushing and waste
- + Higher finished lubricant blending batch yields
- + Eliminate product cross-contamination risk
- + Supports sustainable manufacturing goals
- + Accommodates a diverse product line and smaller filling runs
- + Promotes a more competitive market position and lower operating cost
- + Rapid payback and ROI

In addition to cost savings and the competitive advantages we provide, Pigging Solutions' systems are easy and safe for operators to use. All pig launchers are equipped with the patented LQC pressure locking safety closure, providing safe access to pigs for routine maintenance in less than 15 seconds. The safety closure's unique pressure locking feature also protects the operator and the environment from accidental spills or pig release injury.

Whether your lubricant transfer application calls for a simple manually operated, point-to-point system or you have a need for an automated system to make simultaneous transfers from multiple sources and destinations, Pigging Solutions will work with you to develop a pigging system that meets your specific application needs.

To learn more, call our industry specialist to set up a meeting or complimentary site visit to review your lubricant transfer process and applicable pigging solutions. We also encourage you to visit our website at www.piggingsolutions.com where you will find typical pigging system sketches.

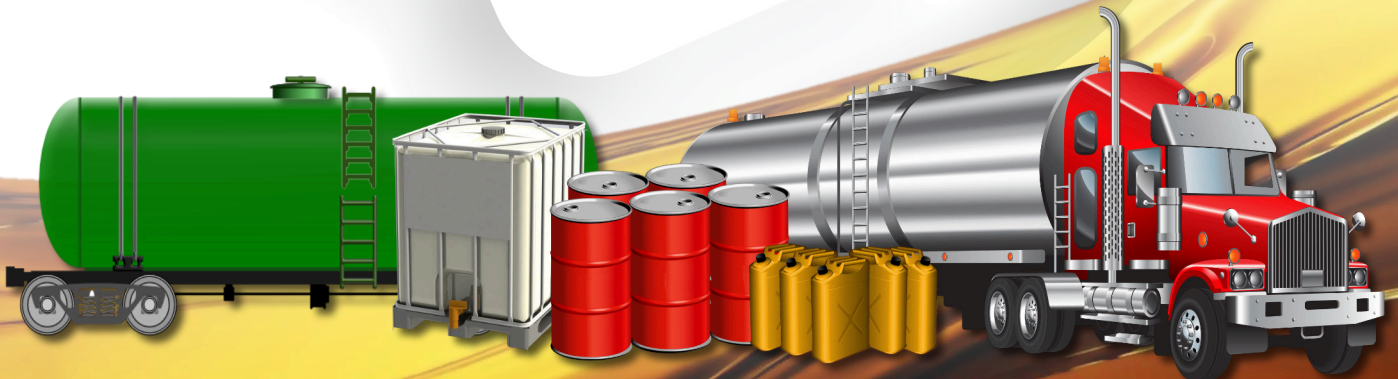
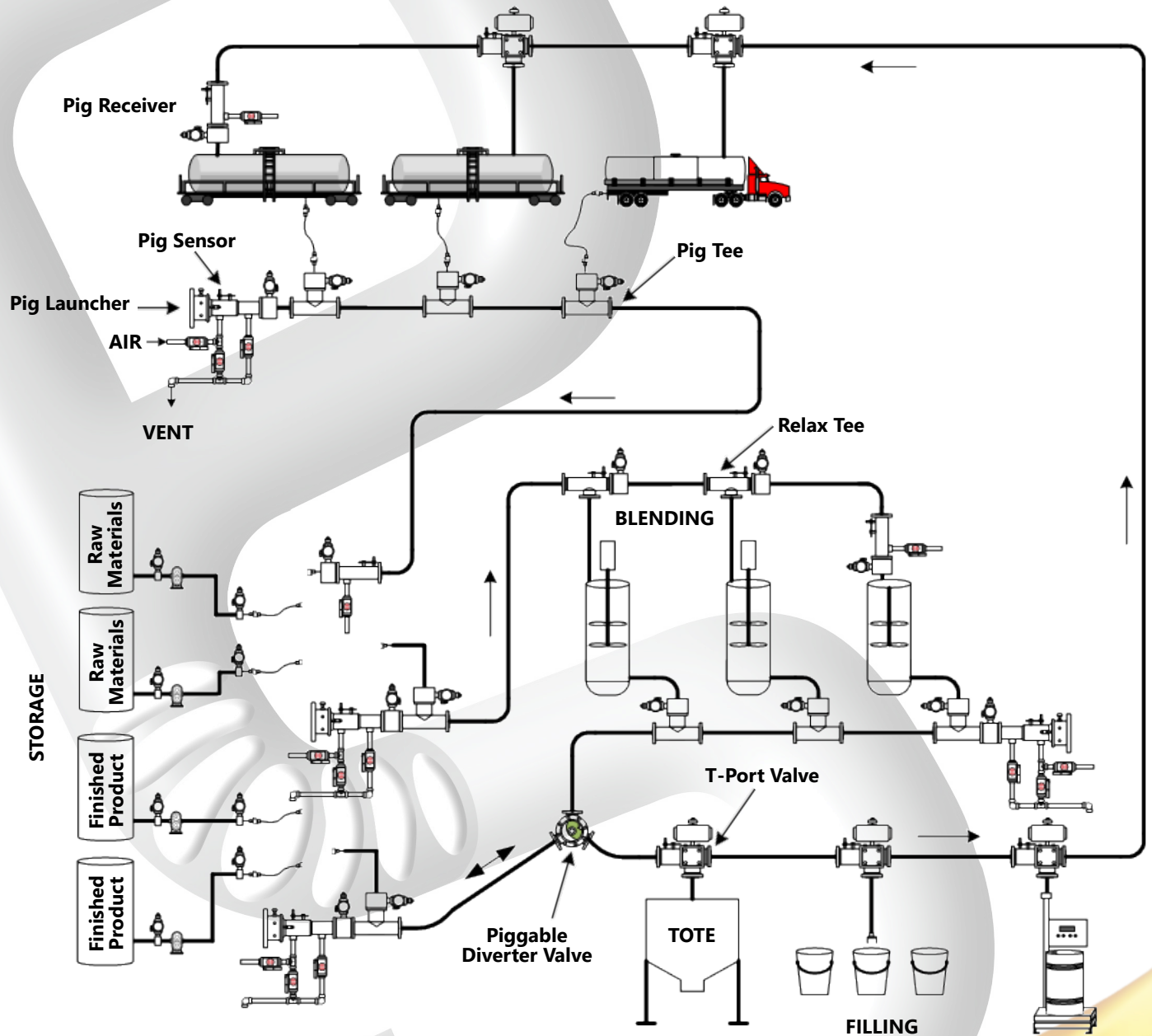
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CONCEPT SKETCH

BULK LOADING & UNLOADING





PRODUCT RECOVERY PIGGING SYSTEMS

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