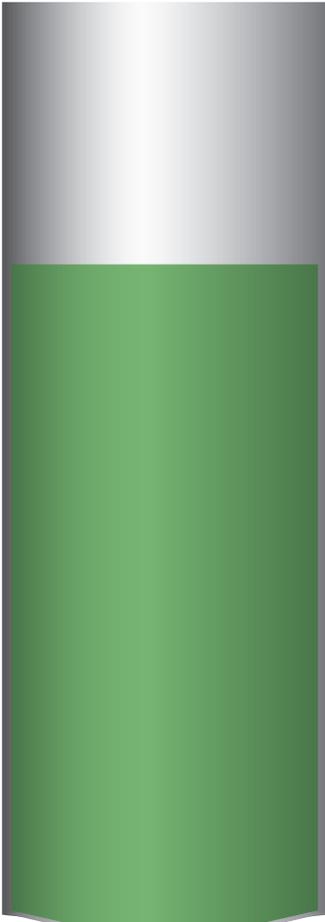


PIGGING SOLUTIONS™

RECOVER PRODUCT - SAVE MONEY - PROTECT THE ENVIRONMENT



Pig Launcher

Product Recovery Pigging Systems
Don't waste it. Pig it.

**Air, Nitrogen or
Liquid Input Valve**



Piggable Tee
Short tee branch with integrated pig bar, allowing smooth pig passage without hang-up.



What We Do:

-  Increase your profits.
-  Recover your lost product.
-  Eliminate your flush waste.
-  Minimize dedicated piping cost.
-  Reduce product changeover time and inventory.
-  Improve product quality.
-  Raise environmental stewardship.

What is Pigging?

Pigging is technology for recovering trapped product in process pipelines. Pigging works by propelling a cylindrical elastomer with compressed wiping discs, the "pig", through the pipeline from the source to the destination. As the pig travels through the pipeline, it pushes out the trapped product and cleans the pipeline walls.



Pig



Piggable Isolation Valve
Matches ID of surrounding pipe. Smooth pig passage without hang-up.



Piggable 3-Way Diverter Valve
Diverts flow to either of two destinations.

Relax Tee with Stop



Destinations:

- Tanks
- Fillers
- Trucks
- Rail Cars

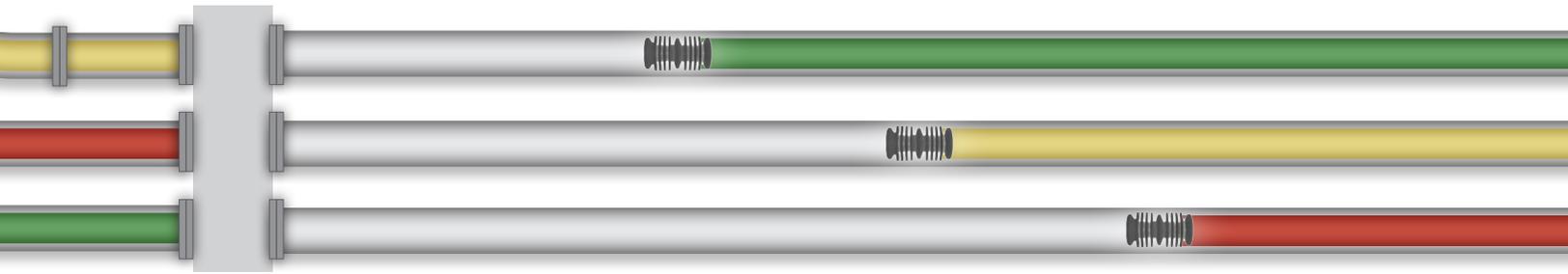
Operator Safety and Ease-of-Use

- Industry leader in operator safety and ease-of-use.
- No tools required to perform routine pig maintenance.
- Safe pig access in less than 15 seconds.
- Easy pig removal and insertion without "tugging" or "stuffing".
- Patented LQC access cap with pressure locking safety feature.



Piggable Elbow
Sweeping radius and no pinch points permit low pressure pig passage.





Capabilities and Experience

- Your go-to source for all your pigging application needs.
- Broad range of system capabilities and professional experience.
- Application-specific system design services available at no charge to clients.
- Experience serving many different industries and product applications.
- System design and component supply that meets the needs of your application and budget.
- Installation and start-up assistance coupled with continual system support.



Piggable Manifolds

Allows multiple simultaneous transfers, diversion of flow from multiple sources to multiple destinations and incorporates pig-out safety feature.

Rotary Manifold



Vertical Manifold



Horizontal Manifold



We invite you to visit our website at www.piggingsolutions.com where you will find additional information about our pigging technology, typical application sketches, photos and animations.



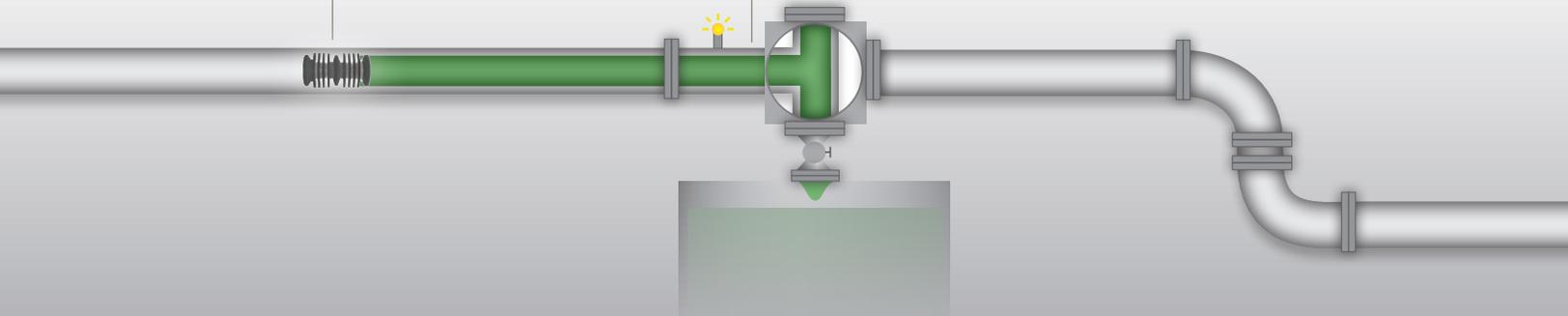
Pig Styles / Options

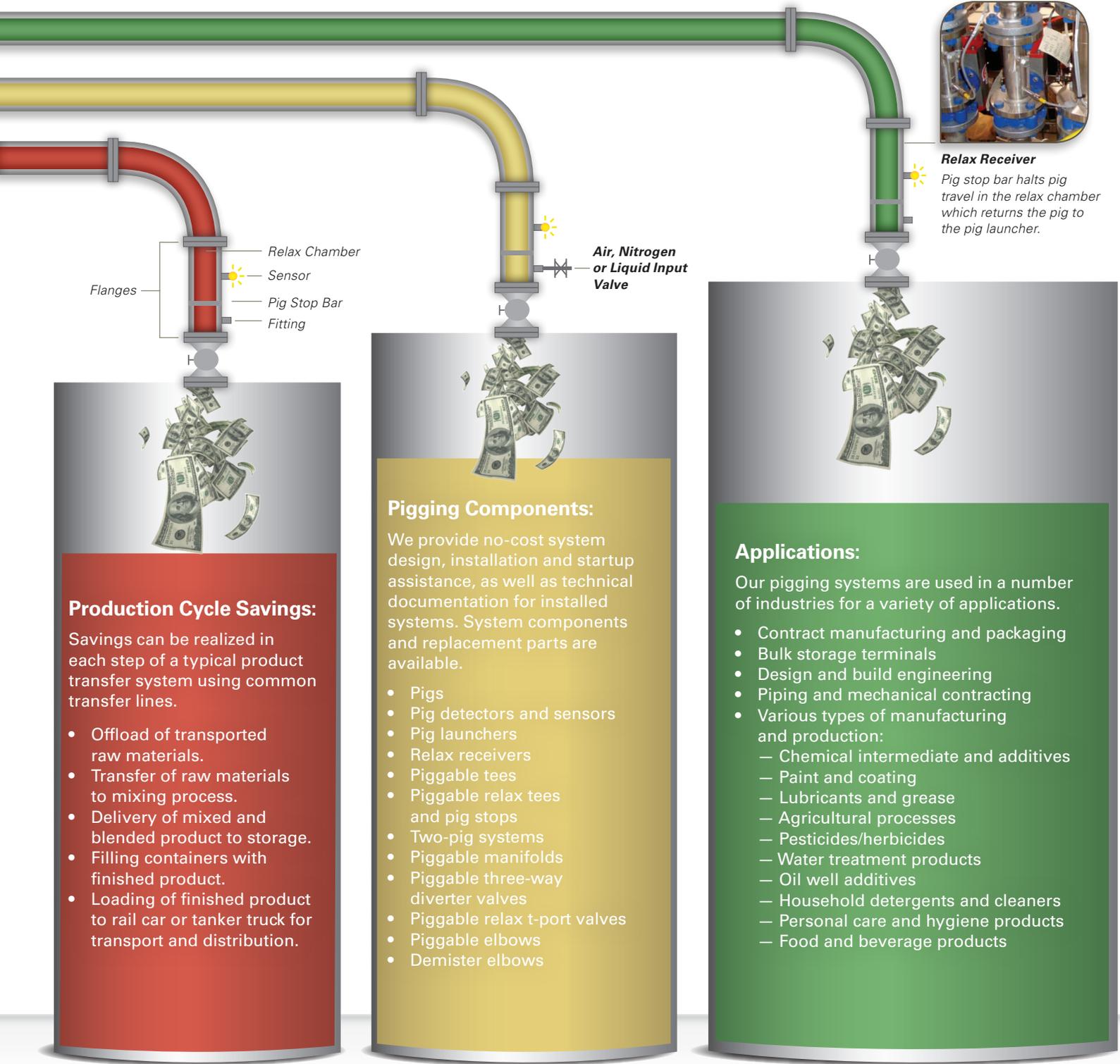
Multiple wiping discs for superior line cleaning and product recovery. Constructed from chemically compatible materials for most applications.



Piggable Relax T-Port Valve

Specially designed to stop pig and provide smooth pig passage without hang-up.





Production Cycle Savings:

Savings can be realized in each step of a typical product transfer system using common transfer lines.

- Offload of transported raw materials.
- Transfer of raw materials to mixing process.
- Delivery of mixed and blended product to storage.
- Filling containers with finished product.
- Loading of finished product to rail car or tanker truck for transport and distribution.

Pigging Components:

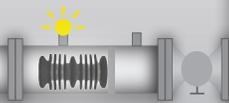
We provide no-cost system design, installation and startup assistance, as well as technical documentation for installed systems. System components and replacement parts are available.

- Pigs
- Pig detectors and sensors
- Pig launchers
- Relax receivers
- Piggable tees
- Piggable relax tees and pig stops
- Two-pig systems
- Piggable manifolds
- Piggable three-way diverter valves
- Piggable relax t-port valves
- Piggable elbows
- Demister elbows

Applications:

Our pigging systems are used in a number of industries for a variety of applications.

- Contract manufacturing and packaging
- Bulk storage terminals
- Design and build engineering
- Piping and mechanical contracting
- Various types of manufacturing and production:
 - Chemical intermediate and additives
 - Paint and coating
 - Lubricants and grease
 - Agricultural processes
 - Pesticides/herbicides
 - Water treatment products
 - Oil well additives
 - Household detergents and cleaners
 - Personal care and hygiene products
 - Food and beverage products



www.piggingsolutions.com

1915 W. Woodland Street
Suite 132
Springfield, MO 65807
(417) 685-4018