



RECOVER PRODUCT - SAVE MONEY - PROTECT THE ENVIRONMENT

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

## 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.

### 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.



Rotary Manifold



Horizontal Manifold



Vertical Manifold

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



**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.

### 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.



We invite you to visit our website at [www.piggingsolutions.com](http://www.piggingsolutions.com) where you will find additional information about our pigging technology, typical application sketches, photos and animations.



[www.piggingsolutions.com](http://www.piggingsolutions.com)

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### 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:

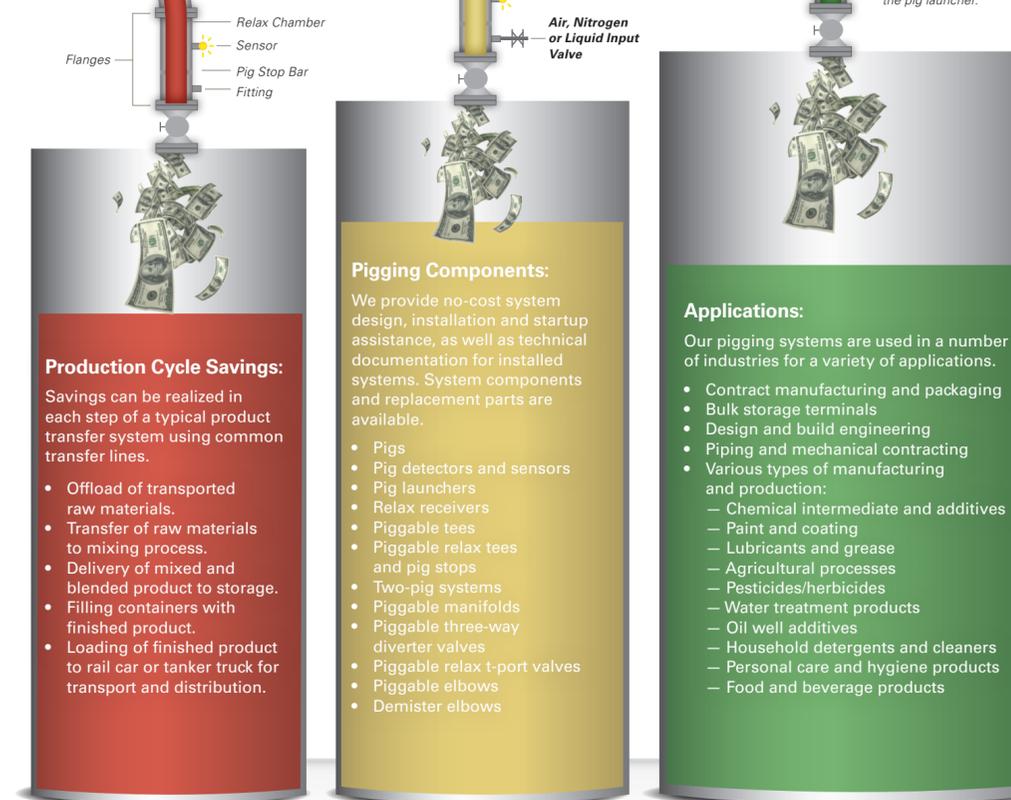
We provide no-cost system design, installation and startup assistance, as well as technical documentation for installed systems. System components and replacement parts are available.

- Pigs
- Pig detectors and sensors
- Pig launchers
- Relax receivers
- Piggable relax tees
- 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



Flanges  
Relax Chamber  
Sensor  
Pig Stop Bar  
Fitting

Air, Nitrogen or Liquid Input Valve

**Relax Receiver**  
Pig stop bar halts pig travel in the relax chamber which returns the pig to the pig launcher.

- Destinations:**
- Tanks
  - Fillers
  - Trucks
  - Rail Cars

**Relax Tee with Stop**



**Piggable Tee**

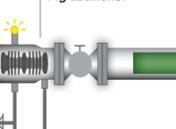
Short tee branch with integrated pig bar, allowing smooth pig passage without hang-up.



**Pig Return Vent and Pressure Relief**



**Pig Launcher**



**Air, Nitrogen or Liquid Input Valve**

