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THE PIGGABLE BLIND FLANGE

# INTRODUCTION TO THE ISOPIG<sup>®</sup>



# WHO WE ARE



- *Founded in 2015, 3 year old company*
- *145 years combined pipeline experience.*
- *Advanced offshore isolation technology that leaves pipe in superior condition to current hot tap/line stop methods*
- *True double block seal, bubble tight - used for liquid and gas*
- *Low-stress; designed to isolate in thin-walled pipe*
- *Safe Wireless communication protocol*
- *Highly piggable*

**Fully compliant member of ISNetworld®**  
**Pipeline Pressure Isolation Group, LLC (#400-237318)**

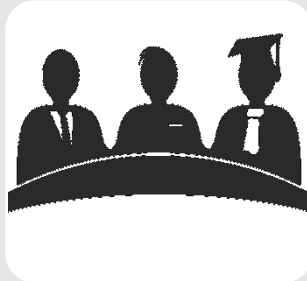


# OUR CORE VALUES F.A.C.T.S.



## **Fun:**

We encourage each other and make it fun to grow together (including customers and vendors).



## **Academia:**

We are a Learning and Teaching organization.



## **Clarity:**

We value clarity and use written processes and metrics for that purpose.



## **Time/True:**

We are on time and true to our word.



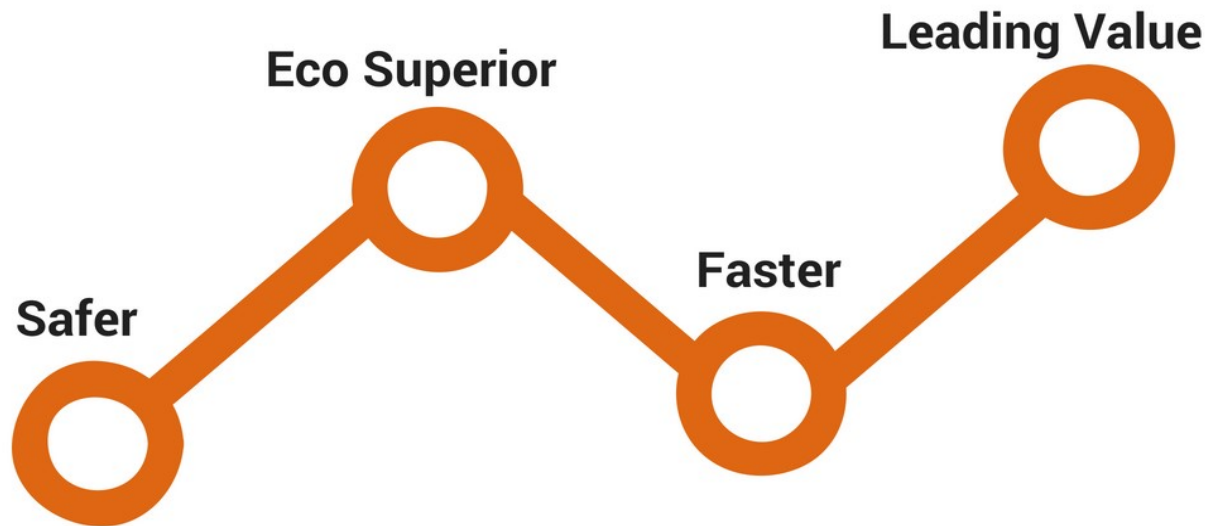
## **Speed (velocity):**

We apply a sense of urgency to be ready and to insure meeting deadlines and goals

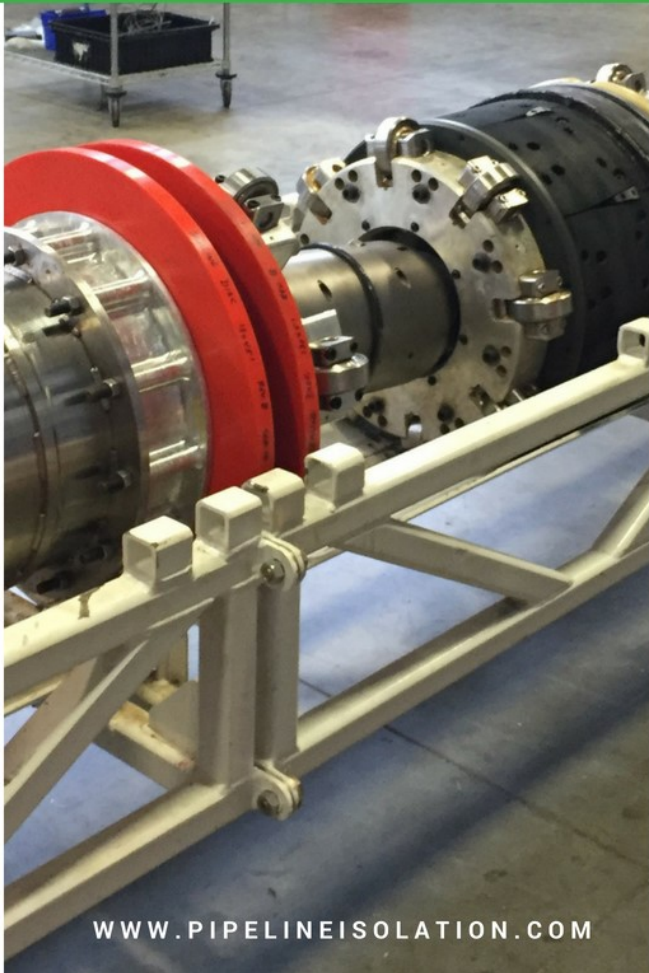


# WHAT WE DELIVER

**If you need to modify or repair  
a pressurized pipeline**



# WHAT ARE PIGGABLE ISOLATION PLUGS?



01

**Pressure Barrier – Line remains packed and under pressure**

02

**Bi-Directionally Piggable**

03

**Stopped with Flow at Location**

04

**“Set” - Grips and Packer form a seal and keep tool in position**

05

**“Unset” and Pigged out of the line, or go to the next worksite**



# ISOPIG<sup>®</sup> MOST COMMON APPLICATIONS

- *Pipeline Repairs*
- *Valve Repair / Replacements*
- *Batch repairs over long sections of pipe*
- *Emergency Stoppages*
- *Hydrotesting*





# ISOPIG<sup>®</sup> IDEA

For the first time the IsoPig<sup>®</sup> can be used for onshore pipeline and it is:

- *Remotely controlled*
- *Safer for the environment (emissions and excavation footprint)*
- *Safer for your workers*
- *Faster (Minimal Excavating)*
- *Leaves Pipeline in Superior condition compared to traditional methods*



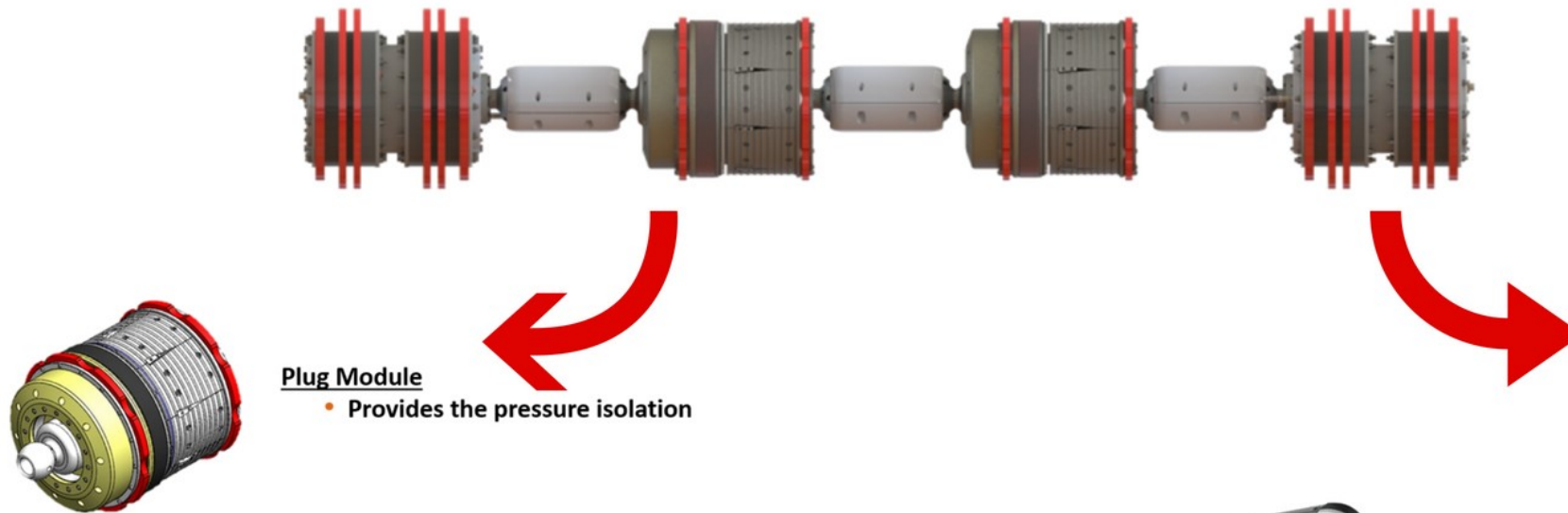
# ISOPIG<sup>®</sup> IDEA

IsoPig<sup>®</sup> isolation technology is extremely reliable due to:

- *Fully redundant control and plug modules*
- *Double-block*
- *Bubble-tight seal*
- *Multiple sets on a single charge*
- *Reduced stress - Increased reliability*



# HOW DOES ISOPIG<sup>®</sup> WORK?

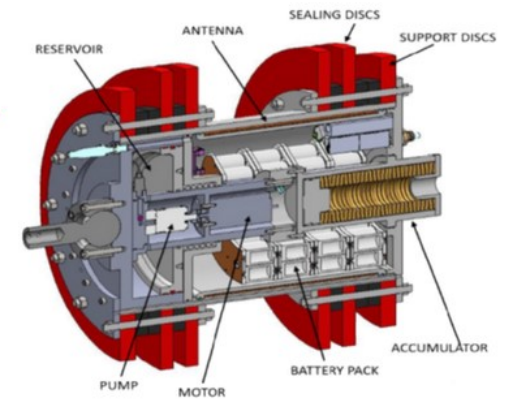


## Plug Module

- Provides the pressure isolation

## Control Module

- Operates the plug



## Telemetry

- Communicates Commands
- Receives Data
- Monitors Pressures/Temps



# HOW DOES ISOPIG<sup>®</sup> GRIP AND SEAL?



## Activation:

- *Grips Extend and Engage Pipe*
- *Packer Extends and Engages Pipe*
- *True Energized Seal*
- *More Pressure, More Activation*



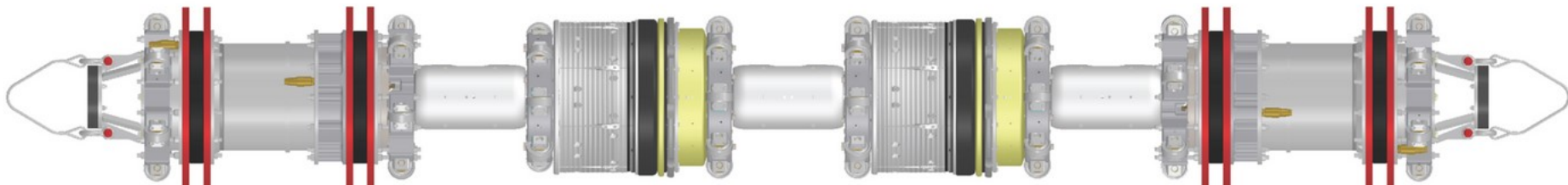
Packer ← → Grips

# HOW DO WE DO?



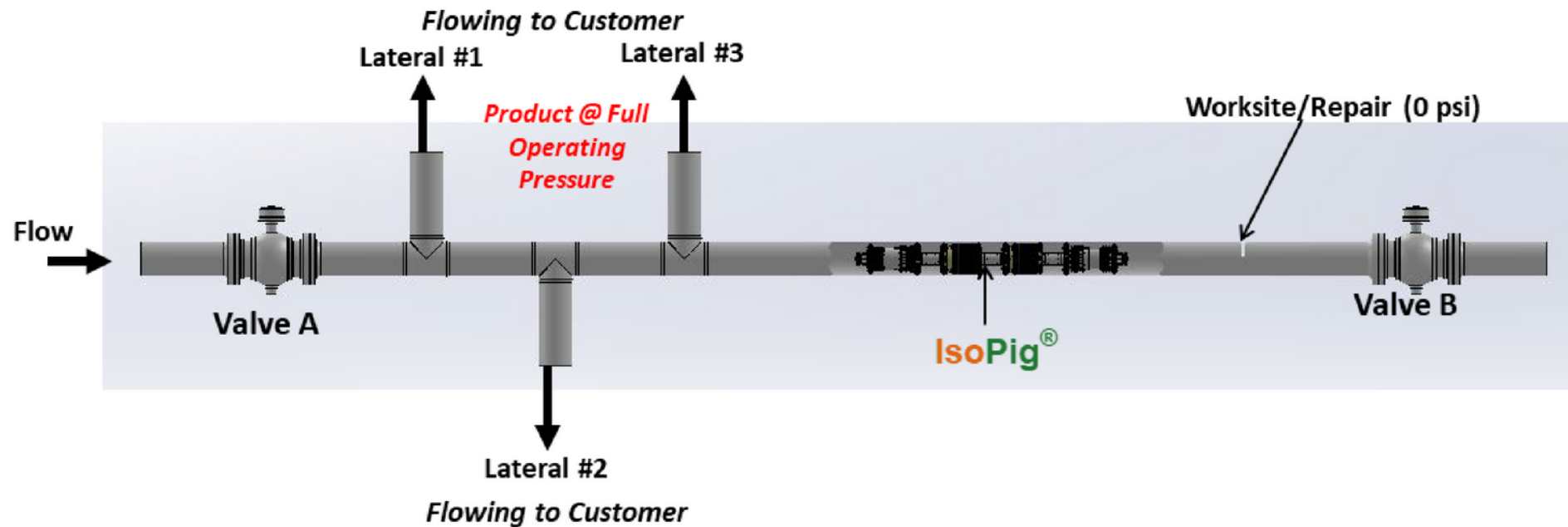
Pipeline is an isolation "service" - Uses IsoPig® low stress tool  
Applications for use include:

- *Midline repairs*
- *Valve repairs / replacements*
- *Launcher / Receiver Repairs / Replacements ( doors, valves, etc )*
- *Laterals / Proper Barred T's*
- *Excavation Safety*
- *Hydrotesting*





# CONTINUOUS SERVICE DURING REPAIRS



*The IsoPig® can allow a repair to take place while keeping customers serviced !*

# MIDLINE REPAIRS OR VALVE REPAIR / REPLACE INCLUDING BATCH REPAIR



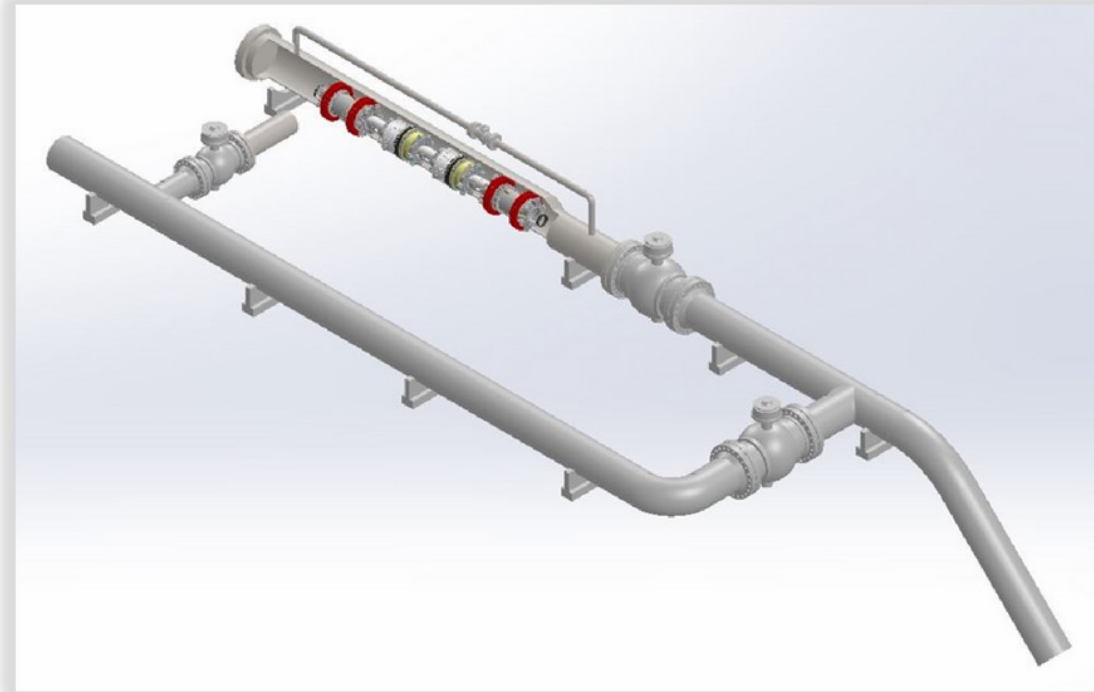
Or



## Advantages over Venting Entire Line:

- ☐ Avoids Excessive Noise
- ☐ Reduces Emissions
- ☐ Minimum Gas Loss/Lower Cost
- ☐ Improved Public Relations (Nuisance calls eliminated)

# LAUNCHER OR RECEIVER VALVE REPAIR / REPLACEMENT





# EXCAVATION SAFETY

Steve Kean, President and CEO – Kinder Morgan:  
“...I want to emphasize one specific area. That is working on, or around our pipelines... We take notice of, and follow-up on any line hits. That’s because the consequences are potentially so severe, including death or serious injury...”



Allows isolation of work areas prior to dig to achieve higher level of safety.

Minimize catastrophic damage in the event of a line hits:

- 1) Environmental spills
- 2) Explosions

# LATERALS/PROPER BARRED "T"





# HYDROTESTING



- *No need to cut the line*
- *No welding on end-caps*
- *No need to remove end-caps*
- *No need to weld new pipe*
- *Progressive Hydrotest potential*





# SUMMARY



**Low or High Pressure**  
1 – 1000 psi



**Thin-Wall Pipe**  
No external  
Reinforcement



**Liquid or Gas**



**With Low Stress  
on Pipe**



**In Pipe With  
3D Bends**



**With no Leakage**



**Providing a Double  
Block Barrier**

**ISOPIG<sup>®</sup>**  
**WWW.PIPELINEISOLATION.COM**

***For the best isolation tool...***  
***Connect with the Pipeline Pressure Isolation Group today...***  
***The experts in pipeline isolation!!***

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