



## THE SURELAUNCH™ AUTOMATED PIGGING SYSTEM'S BIDIRECTIONAL APPLICATION

WeldFit Energy Group's SureLaunch™ Automated Pigging System can be easily incorporated into a bidirectional pipeline, allowing for automated pigging in either flow direction with minimal field changes. The SureLaunch™ Automated Pigging System is well suited to flow reversal, because it is horizontally oriented and the electro-mechanical drive system accepts any type of pig.

The SureLaunch™ launcher utilizes an extended barrel, which holds seven or more pigs to be launched on a periodic basis. The pigs are moved into launch position by a mechanical drive system controlled by a state of the art Human Machine Interface (HMI) system. The standard unidirectional SureLaunch™ arrangement incorporates an extended length receiver capable of holding all of the pigs launched by the automated launcher.

The only significant difference between a unidirectional SureLaunch™ Automated Pigging System and a bidirectional application is the use of SureLaunch™ launcher units on both ends of the pipeline. Both launcher units would be identical with their own internal drive mechanism and HMI controller. The HMI controller for the unit acting as the receiver would be turned off, until the flow in the pipeline is reversed. The procedure for reversing the flow in the pipeline is quick and simple.



### 1. Changing the launcher unit to receiver mode.

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- I. Using the HMI unit, move the paddle all the way to the closure end of the unit and remove the paddle.
- II. Disengage the unit's spring-loaded dampers. This can easily be accomplished from the closure end of the unit.
- III. Turn off the HMI unit.

### 2. Changing the receiver unit to launch mode.

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- I. Engage the spring-loaded dampers.
- II. Turn on the HMI unit.
- III. Run a pre-described inspection sequence using the HMI to ensure proper operation.
- IV. Insert pigs into launcher.
- V. Install the paddle.

All of these steps can normally be accomplished in less than an hour, which minimizes downtime and field crew labor.



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