

## TRADITIONAL PIGGING SYSTEMS

### WeldFit Energy Group

specializes in 4 inch through 48 inch\* nominal pipe size pigging systems with extruded branch outlets to produce single or multiple outlets on the barrel. WeldFit has 30+ years of pipeline experience with extruded outlets, welding and the fabrication of pigging systems where the design, engineering, manufacturing and testing are all performed in-house. Extruded outlets on pigging systems have several advantages over the more common welded branch connections, made possible by several key features.

#### Key Features & Benefits:

- no reinforcement pads required on branch outlets
- eliminates tees and expensive girth welds on the outlets during field installation
- oversized barrel to ease the handling and loading of pigs
- flanged or weld end connections for field installation
- eccentric reducer on launcher and concentric reducer on receiver to improve launching and receiving capabilities
- all connections are sized based on industry best practices and standards
- primer coated and ready for customer's desired paint system or painted in accordance to customer's paint specifications
- quick opening closure standard on all units
- designed with the appropriate quantity and size of nozzles for vents, pressure gauges and drains
- data package provided for code compliance
- hydrostatic pressure tested in accordance to the applicable codes
- designed to applicable safety design factor
- inspected and designed in accordance to the applicable pipeline

\*Larger Sizes can be engineered to order



#### Options:

- designed for in-line inspection tools
- corrosion coupon holders for monitoring internal corrosion rates
- pull nozzles for loading in-line inspection tools
- equalization lines to improve the ease of loading pigs and improve safety of unloading pigs
- skid mounted units available
- corrosion resistant weld overlay of trap components for corrosive service applications
- valve packages available upon request
- in-field application engineering, project management and commissioning services



### Extrusion Process:

Dies are used inside and outside of the part to control the outlet shape. Launcher and receiver sections are extruded hot or cold, depending on exact plate chemistry or requirements. Extrusion may be pre-formed in several stages, with proper heat treatment between operations.

### Quality Assurance:

Extruded outlets allow for 100% radiographic examination of all welds and ensure the cross section transition is uniform. Resistance to notch-sensitivity and fatigue failures prevents future quality issues.

### Superior Strength:

By moving the weld away from the highly stressed crotch area of the outlet, an extrusion offers a more reliable, proven connection than a welded-in or padded outlet. Fatigue cracking from cyclic or thermal loads is eliminated in some environments by extruded outlets. The butt weld of an extruded outlet also simplifies radiographic examination.

### Design Flexibility:

Extruded launchers and receivers can offer design advantages unavailable with standard fittings. Design flexibility allows placement of outlets where you want them, along with varied specifications to meet stringent code requirements. Outlet configurations can be designed to maximize cost savings or minimize space requirements.

### Modular Launchers and Receivers:

Modular launchers and receivers, from beginning to end, can be built in less time with less waste. The highest percentage of manufacturing is finished under what is almost always a climate controlled environment inside our manufacturing plant. WeldFit Energy Group can accommodate a fit-up of all modules with spacers between flanges, matching the exact length of the valves to be installed onsite. Both the launcher and the receiver are hydrostatically tested, coated and shipped in units that are numbered for fast, easy installation upon arrival at the jobsite.



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