



INDUSTRIAL PLASTICS

HDPE Pipe, Fabrication and Fusion Services



CONTACT ONE OF OUR HDPE FABRICATION FACILITIES TO LEARN MORE.

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HIGH DENSITY POLYETHYLENE PIPE AND FABRICATION SERVICES

A long lasting and sustainable solution for industrial applications.

Piping made from polyethylene is a long-lasting, cost-effective solution for a broad range of piping problems in industrial, marine, mining, landfill and agricultural applications. It has been proven to be effective in surface, underground and marine applications.

Suitable applications include:

- Hazardous waste
- Dredge piping
- Flotation systems
- Acid bath
- FM pipe
- Irrigation
- Potable water systems
- Spent abrasive slurry
- Power generation
- Organic/inorganic chemicals
- Solution mining
- Process piping



CHOOSING THE RIGHT SUPPLIER

Our value-engineering solutions can help reduce overall project cost and increase site productivity.

With over 40 years in the HDPE business, Ferguson Industrial is a leader in the distribution and fabrication of HDPE pipe and fittings. Our equipment, field technicians and facilities are strategically located throughout the United States, ensuring our ability to provide pipe, fittings and equipment regardless of customer location.

We offer:

- Fabrication for custom HDPE pipe fittings in sizes 1/2"-65" in both IPS and DIPS
- Application and specification review
- Specialty product CAD drawing
- Technical calculations
- Jobsite setup recommendations
- Productivity estimates
- Design assistance
- Fusion Training
- Equipment sales, rental and support



HDPE PIPING SYSTEMS

We offer a variety HDPE fittings, structures and floats to meet our customers unique requirements.

FM Approved Classes:

- FM Class 200 | FM Class 250 | FM Class 335

Elbows

90° (3pc & 5pc), 60° (3pc),
45° (3pc & 2pc), 30° (2pc),
22-1/2° (2pc), 11-1/4° (2pc)
and custom angles



Swage and Plate Style Reducers

Concentric and eccentric



Tees

Line tees and reducing tees



Structures

Manholes, tanks, spools,
manifolds, specialty items



Wyes

Lateral wyes and cleanout wyes



Dual Containment

Dual containment
pipe and fittings



Crosses

Line crosses and
reducing crosses



Floats

Pump floats, docks,
pontoons, fishpens



QUALITY ASSURANCE

Our HDPE Quality Process consists of several procedures to ensure our customers receive the highest quality possible.

Inspection

All pipe and fittings are inspected multiple times throughout the fabrication process. We inspect heat fusion process reports, wall thickness, manufactured angles and cosmetic issues to ensure products meet specifications.

Traceability

A unique serial number is heat stamped for traceability on all fittings. Every accepted fitting has a quality record available to prove inspection, standardization requirements and acceptance.

Data-logging

Standard procedures used for all fabricated fittings and specialty products to record critical data points throughout the fusion process.



CUSTOM FABRICATION

We excel with design assistance and custom fabrication of HDPE pipe components to provide complete pipe systems that meet the needs of your application.

With our vast experience in design and fabrication of specialty HDPE products, we provide solutions using fusion techniques applicable for custom fabricated fittings, components and structures to meet unique or specialized design specifications.

- Strategically located fabrication facilities
- Certified factory-trained fusion technicians
- CAD design and 3-D modeling

FM Approved Fittings

Ferguson Industrial PE4710 FM Approved fittings are manufactured from NSF-61 certified HDPE compound that meets or exceeds material designations PE4710. Ferguson Industrial PE4710 FM Approved fittings comply with AWWA C901-17, AWWA C906-15, NFPA 24 and NSF-61 for Potable water service.

Fabricated Fittings

Our fabricated HDPE fittings are manufactured from pipe grade polyethylene feedstock that meets ASTM standard F714. We use resin with a cell class of PE 445474C. This material meets the standards for Type III, Class C, Category 5, Grade PE4710 piping in accordance with ASTM standard D3350.

Spool Fabrication

By using pre-fabricated spools, you will be able to reduce field welds, labor expense and downtime on system replacements.

Specialty Fabrication

Many projects and applications are unique and complex, requiring skilled fabrication and a variety of pieces and fittings. We work with you to develop the best possible solutions.

Floating Structures

Our float systems are resilient and durable in harsh marine environments and designed to last a lifetime. We supply pontoons for marinas, pump floats, fish pens, work platforms, seaplane docks, traditional docks, houseboats and more.

Manholes and Tanks

HDPE manholes and vaults are manufactured and custom built from durable pipe grade materials. Our structures are fabricated using fusion processes to create a one-piece leak-free design.

- Fabricated to connect with any type of piping system
- Designed to meet ASTM standard F-1759-97 requirements for subsurface applications (when applicable)





FUSION SERVICES

Fusion Machine Rental, Sales and Repair

Thanks to our national footprint, a large fleet of McElroy fusion machines and authorized equipment repair facilities, we have the ability to deploy the appropriate equipment and HDPE pipe needed to any job site.

Our offering includes:

- Field fusion technicians
- Rolling and track machines
- 1/2"-65" McElroy fusion machines
- Data loggers
- Socket welders
- Electrofusion processors
- Extrusion welders
- Sidewall fusion machines
- De-beading tools
- Generators
- Factory certified service and repair

Fusion Training and Qualification

Our certified training instructors work to qualify your crew for necessary HDPE pipe fusion.

Our training meets the operator qualification training standard F3190 set by the American Society for Testing and Materials (ASTM).

Whether you're in need of hand-held, electrofusion, track or rolling butt fusion equipment, we're ready to train for correct operation in accordance with:

- ASTM F2620 (heat fusion) standards
- ASTM F1290 (electrofusion) standards

We provide qualification training on the following HDPE pipe fusion methods:

- Butt fusion
- Electrofusion
- Socket fusion
- Data logger



HDPE SPECIFICATIONS

Fittings made to exact specifications certify the referenced materials' conformance to the following Standards and Specifications.

ASTM F714	Standard specification for polyethylene (PE) plastic pipe (SDR-PR). Based on outside diameter.	AWWA C901	Polyethylene (PE) pressure pipe and tubing, 3/4 in. (19mm) through 3 in. (76mm) for water service.
ASTM F2206	Specification for fabricated fittings of butt-fused polyethylene plastic pipe and fittings.	AWWA C906	Polyethylene (PE) pressure pipe and fittings, 4 in. (100mm) through 65 in. (1,650mm) for waterworks.
ASTM D3350	Standard specification for polyethylene (PE) plastic pipe and fittings material.	ASTM F3190	Standard practice for heat fusion equipment (HFE) operator qualification on polyethylene (PE) and polyamide (PA) pipe and fittings.
ASTM D3035	Standard specification for polyethylene (PE) plastic pipe (SDR-PR). Based on controlled outside diameter.	ASTM F2620	Standard practice for heat fusion joining of polyethylene (PE) pipe and fittings.
ASTM D3261	Standard specification for butt heat fusion polyethylene (PE) plastic fittings for polyethylene plastic pipe and tubing.	ASTM F1290	Standard practice for electrofusion joining polyolefin pipe and fittings.
ASTM F1055	Specification for electrofusion type polyethylene (PE) fittings for outside diameter-controlled polyethylene.	NSF/ANSI 61	Drinking water system components.

FM approval standard class number 1613-17, polyethylene (PE) pipe and fittings for underground fire protection