

# PE ELECTROFUSION SYSTEMS FOR WATER APPLICATIONS



## MUNICIPAL SYSTEMS

- The smarter, more reliable way of fusing HDPE pipe
- The strongest, most reliable leakproof seal in the industry
- Faster, easier installation
- Full traceability

Engineered Smarter™



# Friatec Electrofusion Systems:

## The smarter, more reliable way of fusing HDPE pipe

IPEX Friatec is a leader in electrofusion fitting technology for HDPE pipe systems. With our proven products and expertise, Friatec products are frequently called upon to solve the toughest fusion challenges.

### The strongest, most reliable leak-proof seal in the industry

Friatec is engineered smarter than traditional fusion systems. Manufactured in the USA, Friatec couplings feature a unique, exposed coil design that provides a seal stronger than any other electrofusion system on the market. This is achieved for two reasons:

- the heat, created by the electrical current passing through the exposed coil of the Friatec coupling, is transferred directly to the PE pipe, and
- the coil protrudes from the interior surface of the coupling. When the pipe is heated, the coil sinks into it creating a much stronger bond.

As a result of this process, every joint will be sealed precisely to specification, automatically, every time, minimizing the risk of human error. This unparalleled sealing technology has earned Friatec couplings the highest pressure rating in the industry. What's more, because every joint is as strong as the pipe itself, the Friatec Electrofusion system is ideal for horizontal direct drilling and other trenchless applications.

### Full Traceability

With the industry's most advanced barcode monitoring, recording and traceability technology, Friatec makes managing your infrastructure easier than ever before.

Imagine, no more hidden costs or surprises on future dig ups. Instead, you'll know when, where and how every coupling in your system was installed, and by whom.

All these benefits add up to deliver substantial time and cost savings on every project.

Friatec Electrofusion Systems. Smarter engineering for your municipal water HDPE infrastructure.

### Faster, Easier Installation

Thanks to Friatec's portable "Genesis F3" universal electrofusion processor, installation is quick and easy. It can be performed right in the trench, even where space is extremely limited. For trackability, the barcode label of each coupling is also scanned with Genesis F3's reader wand. Genesis F3 automatically determines the best electrical current and fusing time required. And most importantly, the Genesis F3 is more:

- **RELIABLE:** because it uses electricity to distribute heat uniformly around the coupling for a more uniformly sealed joint.
- **REPEATABLE:** as it automatically adjusts processing parameters for each coupling by accounting for the job-site conditions, such as ambient temperature, eliminating human error and ensuring that the seal is precisely to specification, every time!
- **VERIFIABLE:** because it generates a fusion report for each fitting, empowering contractors with instant verification of seal integrity and comprehensive documentation for archiving.
- **TRACKABLE:** as it allows you to retrieve fusion records and allows you to enter your GPS location.



## The Friatec Advantage

- Strongest, most reliable seal available
- Faster, easier installation
- Easier to manage your infrastructure
- More cost-effective



# Couplings and Fittings

One of the widest range of coupling sizes available today!

All Friatec couplings are NSF approved and 4 inches through 20 inches couplings are Factory Mutual approved. Some of the unique advantages of our couplings include:

- Suitability for tough building-site conditions
- Thick center walls (15-30% thicker than SDR 11 pipe)
- Wide fusion zones (at least 35% of OD)
- Barcode labeled for automatic fusion
- Can be re-fused in case of electrical power interruption
- Identification molded into fitting
- Large diameter couplings up to 30" IPS

## Iron Pipe Sizes (IPS) Couplings

### NSF Approved

Friatec Fittings are often the only way to make a safe, durable joint in polyethylene pipe. Friatec Fittings are made of PE 4710. We offer a wide range of sizes up to 30 inches.

### 200 psi Iron Pipe Sizes (IPS) Couplings

### FM Approved

### Low Pressure Coupling

Low Pressure Couplings are made of PE 4710 and can be pressurized up to a maximum of 100 psi.



## Ductile Iron Pipe (DIP) Couplings

### 4" through 24" DIP Sizes

Features include:

- Suitability for tough building-site conditions
- No alignment or clamping tools necessary
- Generous pipe guidance
- Barcode labeled for automatic fusion
- Can be re-fused in case of electrical power interruption



# Saddles

Friatec Molded Saddle Fittings may be clamped onto pipes up to SDR 11 and sealed using electrofusion.

Benefits include:

- Universally compatible with various diameters of polyethylene pipe from 3" up to 22"
- Quick, easy and safe assembly



## VA Service Saddle

- 2" IPS brass-threaded outlet
- Main stops smaller than 2" can be installed using reducers



## SA Branch Saddle

- Available with either a 2" or 3" outlet

# Tapping Tees



The design of the Friatec tee leads the electrofusion industry. They're the right solution for fast and safe installation of service and branch pipe.

## DAA High Pressure Tapping Tees

- Hot tapping tee designed for leakproof installation under pressure up to 200 psi
- Ease of assembly – no rounding clamps or special tools
- Cutter and sleeve made of brass
- Brass guide allows easy cutting of thick wall pipe (no plastic thread that strips easily)
- Lower and upper "cutter stops" prevent overcutting as well as accidental removal of cutter
- Threaded plug with o-ring seal
- Corrosion-proof construction



# Tools

IPEX provides training and operating instruction for the proper and safe use of all of our installation tools.

## Re-Round Clamps

If the end of a PE pipe is not perfectly round, the coupling will not fit over the end of the pipe. Friatec Re-Round Clamps solve this problem.



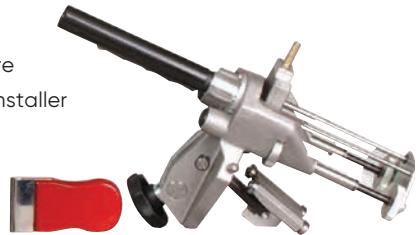
## Repair Patches and Clamps

Friatec pipe repair systems are both simple to use and effective for pipe repair up to 22 inches. Our repair systems make use of existing Friatec technology to seal a pipe puncture.



## Scraper Tools

Friatec Scraper tools are designed to assist the installer in producing a quality electrofusion joint. The tool design itself provides consistent joint quality.



# GENESIS F3

## Universal Electrofusion Processor

Combines flexibility and practicality into one, easy to operate and transport unit.

- 120 Volt and 240 Volt
- Processor permanently mounted in a hard shell Pelican case
- USB download port
- Standard machine supplied with a barcode pen scanner.
- Options include Smart Scan and Smart Scan with GPS



# Accessories and Services

Products alone rarely provide a successful solution to a problem. It is often the service offered along with new technology that decides how conveniently and to what level of quality the installation can be carried out. Recognizing this, Friatec offers comprehensive services, including:

- On-site training
- On-site instruction
- Technical consultation
- Electrofusion seminars



## SALES AND CUSTOMER SERVICE

IPEX USA LLC

Toll Free: (800) 463-9572

[ipexna.com](http://ipexna.com)

### About the IPEX Group of Companies

As leading suppliers of thermoplastic piping systems, the IPEX Group of Companies provides our customers with some of the world's largest and most comprehensive product lines. All IPEX products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, we have established a reputation for product innovation, quality, end-user focus and performance.

Markets served by IPEX group products are:

- Electrical systems
- Telecommunications and utility piping systems
- PVC, CPVC, PP, PVCO, ABS, PEX, FR-PVDF & PE pipe and fittings (1/4" to 48")
- Industrial process piping systems
- Municipal pressure and gravity piping systems
- Plumbing and mechanical piping systems
- PE Electrofusion systems for gas and water
- Industrial, plumbing and electrical cements
- Irrigation systems

Friatec® is manufactured by IPEX USA LLC. and FRIATEC AG and is distributed in the United States by IPEX USA LLC.  
Friatec® is a trademark of FRIATEC AG.

This literature is published in good faith and is believed to be reliable. However, it does not represent and/or warrant in any manner the information and suggestions contained in this brochure. Data presented is the result of laboratory tests and field experience.

A policy of ongoing product improvement is maintained. This may result in modifications of features and/or specifications without notice.



BRMNFWIP170302U  
© 2019 IPEX MN0026U

