

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
- Unprecedented trackability

Engineered Smarter™



Friatec Electrofusion Systems:

The smarter, more reliable way of fusing HDPE pipe

Friatec, an IPEX company, is a leader in electrofusion fitting technology for HDPE pipe systems. With our proven products and expertise, Friatec is 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.

Industry-leading trackability

With the industry's most advanced barcode monitoring, recording and tracking 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 "FRIAMAT" II[®] 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 FRIAMAT[®] II's reader wand. FRIAMAT[®] II automatically determines the best electrical current and fusing time required. And most importantly, the FRIAMAT[®] II 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

Providing 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 up to 200 psi. Some of the unique advantages of our couplings include:

- Suitability for tough building-site conditions
- No alignment or clamping tools necessary
- 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 28" 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 3408. We offer a range of sizes that no other manufacturer can match—up to 28 inches.

200 psi Iron Pipe Sizes (IPS) Couplings

FM Approved

While the industry standard is 160 psi for IPS fittings, Friatec exceeds it with a pressure rating of 200 psi, the only manufacturer to do so. This provides an additional safety cushion for water piping systems.

Low Pressure Coupling

Low Pressure Couplings are made of PE3408 and can be pressurized up to a maximum of 80 psi.



Ductile Iron Pipe (DIP) Couplings

4" through 20" 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
- Pop-up melt indicator which provides visual fusion verification



Tools

Friatec 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 28 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.



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



FRIAMAT® II

The Universal Electrofusion Processor FRIAMAT® II

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



Features include:

- Documentation function
- Connects to your computer, allowing for direct data transfer
- Universal barcode fusion capability

Other things you should know about FRIAMAT® II

- **Designed for tough building site conditions:**
Safely protected electronics in a splashproof case.
- **Easy to service:**
Few components, inexpensive maintenance.
- Operating temperature from -4° F up to 122° F



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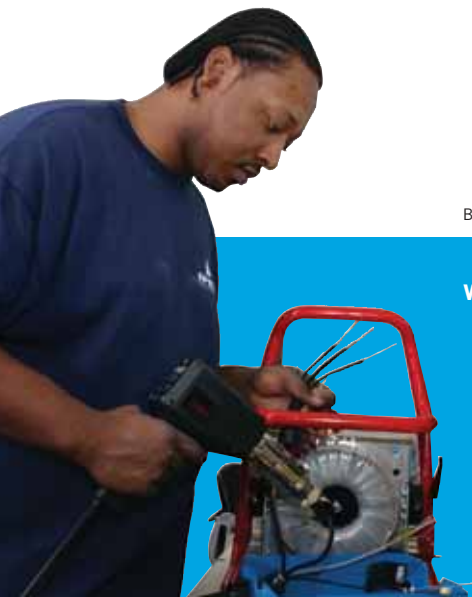
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Product interests:

- Couplings
- Large Couplings
- DIP Couplings
- FRIAMAT® II
- DAA Tapping Tees
- VA Service Saddles
- Repair Clamps and Patches
- Molded Saddle Fittings
- SA Branch Saddles
- Pipeline Relining
- Repair Systems
- Scraper Tools
- Accessories and Services

I would also like to know about other IPEX products:

- Plumbing and mechanical piping systems
- Electrical or telecommunications piping systems
- Irrigation piping systems
- Municipal piping systems



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Saddles

Friatec Molded Saddle Fittings may be clamped onto pipes up to SDR 9 and sealed using electrofusion. In addition to house connection fittings, Friatec Molded Saddle Fittings can also be used as branch saddles for polyethylene relining pipes (U-liners, C-liners, Swage-lining, Roll-down).

Benefits include:

- universally compatible with various diameters of polyethylene pipe from 3" up to 28"
- 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 232 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



DAS II Tapping Tees

- Top loading
- High volume
- Self-tapping tee
- Internal cutter blade that is the largest on the market



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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, ABS, PEX, FR-PVDF and 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 Inc. and FRIATEC AG and distributed in the United States by IPEX USA LLC.
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A policy of ongoing product improvement is maintained. This may result in modifications of features and/or specifications without notice.

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