

EloFIT

Product Overview
Company Profile



**Polyethylene Fittings
for Gas & Water under pressure**

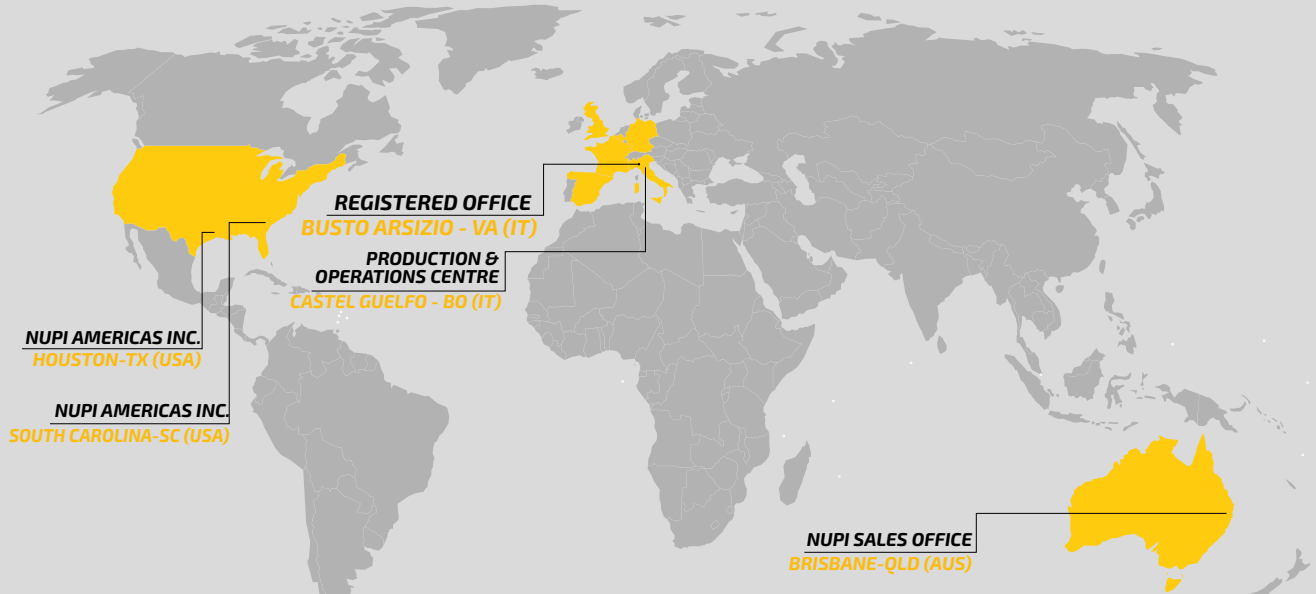


THE COMPANY

NUPI AMERICAS INC. WAS FOUNDED IN 2001 AND IS BASED IN HOUSTON, TX WHERE IT ESTABLISHED A WAREHOUSE AND PRODUCTION FACILITY. ANOTHER WAREHOUSE IS LOCATED IN SOUTH CAROLINA.

NUPI AMERICAS HAS ITS ROOTS IN **NUPI INDUSTRIE ITALIANE S.P.A.**, THAT HAS ITS ORIGIN IN **NUPI S.P.A.** AND **GECO SYSTEM S.P.A.** – TWO COMPANIES WITH MORE THAN 40 YEARS OF EXPERIENCE IN THE FIELD.

NUPI INDUSTRIE ITALIANE S.P.A. AND **NUPI AMERICAS** TOGETHER DEVELOP AND MANUFACTURE PIPING SYSTEMS FOR USE IN INDUSTRIAL, SANITARY (PLUMBING), HVAC APPLICATIONS, WATERWORKS, GAS AND IRRIGATION MARKETS. RELYING ON EXPERIENCE AND CONSTANT GROWTH, OUR COMPANIES HAVE PROVEN TO BE CUTTING EDGE MANUFACTURERS, READY TO MEET THE NEEDS OF THE MARKET WHILE ALSO PROTECTING THE ENVIRONMENT.



IN 1995, FOLLOWING THE COMPLETION OF AN EXTENSIVE RESEARCH AND DEVELOPMENT PROGRAM, WE INTRODUCED A NEW RANGE OF REVOLUTIONARY PIPING SYSTEMS SPECIFICALLY DESIGNED FOR PETROLEUM, CHEMICAL AND PETROCHEMICAL APPLICATIONS. SINCE THEN, TWO SPECIAL PIPING SYSTEMS MADE OF HIGH DENSITY POLYETHYLENE (HDPE) HAVE BEEN MARKETED WORLDWIDE: **SMARTFLEX** FOR THE DOWNSTREAM AND **OLITECH** FOR THE UPSTREAM.

A FEW YEARS LATER, **ELOFIT** IS THE HIGH DENSITY POLYETHYLENE SYSTEM OF ELECTROFUSION FITTINGS AND SPECIAL COMPONENTS FOR THE CONVEYANCE OF WATER AND GAS UNDER PRESSURE. IT IS SUITABLE FOR THE CONVEYANCE AND DISTRIBUTION OF DRINKING WATER AND ALIMENTARY FLUIDS, FUEL AND INERT GASES AND FOR WATER TREATMENT PLANTS, CENTRALISED IRRIGATION AND SEWAGE SYSTEMS, FIRE PROTECTION SYSTEMS AND PIPE RELINING.

OUR TRADEMARKED SYSTEMS ARE REAL SYSTEM SOLUTIONS, COVERING A WIDE RANGE OF APPLICATIONS, REDUCING COSTS, AVOIDING WASTE AND INCREASING PRODUCTIVITY. THANKS TO THEIR QUALITY, THESE PRODUCTS HAVE PASSED MANY DIFFERENT TESTS AND HAVE OBTAINED THE MOST PRESTIGIOUS CERTIFICATES AND LISTINGS, IN LINE WITH THE REGULATIONS OF THE FIVE CONTINENTS FOR THE CONSTRUCTION OF WATER AND GAS NETWORKS AND SYSTEMS FOR THE TRANSPORT OF FUELS.

PRODUCING BETTER QUALITY AND BEING COST EFFECTIVE IS THE GOAL, WHICH IS MADE EASIER EVERYDAY BY NEW TECHNOLOGY. OUR COMPANIES ARE CONTINUOUSLY INVESTING IN RESEARCH AND DEVELOPMENT PROGRAMS, WHILE STRENGTHENING OUR PRODUCTION SYSTEMS, OPERATED BY A SOPHISTICATED TECHNOLOGY THAT GUARANTEES THE HIGHEST QUALITY OF PRODUCTS.

OUR FACILITIES USE MODERN, STATE-OF-THE-ART COMPUTER CONTROLLED PRODUCTION EQUIPMENT AND METHODS THAT GUARANTEE PRODUCTS OF THE HIGHEST QUALITY TOGETHER WITH CONTINUOUS QUALITY CONTROL SYSTEMS. ON THESE SOLID FOUNDATIONS **NUPI INDUSTRIE ITALIANE S.P.A.** AND **NUPI AMERICAS** DEMONSTRATE LEADERSHIP THROUGHOUT THE THERMOPLASTIC PIPING INDUSTRY. OUR CUSTOMERS CAN RELY ON THE BEST QUALITY MATERIALS AND PRECISE MANUFACTURE, OBTAINED THROUGH COMPLETELY AUTOMATED PRODUCTION SYSTEMS RESULTING IN TIMELY DELIVERIES.

CUSTOMER SATISFACTION IS PURSUED THROUGH HIGH QUALITY PRODUCTS AND THE CONSTANT ATTENTION TO OUR CUSTOMERS' NEEDS AND REQUIREMENTS AND BY MEANS OF AN EFFECTIVE TEAM OF PEOPLE IN POST-SALES SERVICE, EFFECTIVE AND PRECISE TECHNICAL ASSISTANCE AND INTENSIVE TRAINING OF INSTALLERS.

THE PRODUCT

ELOFIT is a system of electrofusion and butt fusion fittings made of **High Density Polyethylene** for conveying water, gas and chemicals under pressure (PN10, PN16, PN20, PN25), a material with **high durability** and working benefits to the user.

ELOFIT complies with the following standards:



ASTM D2513: Standard Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings.

ASTM F1055 Standard Specification For Electrofusion Type Polyethylene Fittings For Outside Diameter Controlled Polyethylene and Crosslinked Polyethylene (Pex) Pipe and Tubing.

ASTM D3261 Standard Specification for Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing.

ASTM D2683 Standard Specification for Socket-Type Polyethylene Fittings for Outside Diameter- Controlled Polyethylene Pipe and Tubing.

AWWA C901-17 Polyethylene (PE) Pressure Pipe and Tubing, 3/4 In. (19 mm) Through 3 In. (76 mm), for Water Service

AWWA C906-15 Polyethylene (PE) Pressure Pipe and Fittings, 4 In. Through 65 In. (100 mm Through 1,650 mm), for Waterworks

FM 1613 Polyethylene (PE) Pipe and Fittings For Underground Fire Protection

NSF/ANSI 14-2017 Plastics Piping System Components And Related Materials

APPROVALS

The **ELOFIT** system is certified by **prestigious international certification marks and laboratories:**



CHARACTERISTICS & BENEFITS

ELOFIT IS MADE of non-toxic materials, according with the most important national rules for safety and potability.

ELOFIT fittings are made of **High Density Polyethylene** by injection moulding. This means they have excellent resistance to:

- **CORROSION** even on aggressive soils. HDPE can be laid underground without any protection
- **STRAY CURRENTS** since HDPE has very poor electrical conductivity
- **IMPACT** even at low temperatures (-4°F)
- **CHEMICAL AGENTS** HDPE can withstand most chemical substances
- **ABRASION** HDPE allows high water speed without erosion problems
- **MICRO-ORGANISMS** and **TOXICITY**

ELOFIT fittings are reliable through time for **over 50 years**.

FIELDS OF USE

ELOFIT is suitable for the following applications:

- CONVEYANCE of DRINKING WATER and ALIMENTARY FLUIDS
- DRAINAGE and SEWERAGE
- CONVEYANCE of GASEOUS FUELS (NATURAL GAS, MANUFACTURED GAS, LPG)
- CONVEYANCE of INDUSTRIAL FLUIDS and COMPATIBLE CHEMICALS



It can also be used for the following systems:

- WASTEWATER TREATMENT
- IRRIGATION
- CHEMICAL PLANTS
- PRESSURISED SEWERAGE FOR INDUSTRIAL AND CIVIL USE
- UNDERGROUND FIRE PROTECTION
- PIPE RELINING (RENOVATION OF OLD NETWORKS)

FIND OUT MORE!



ELECTROFUSION

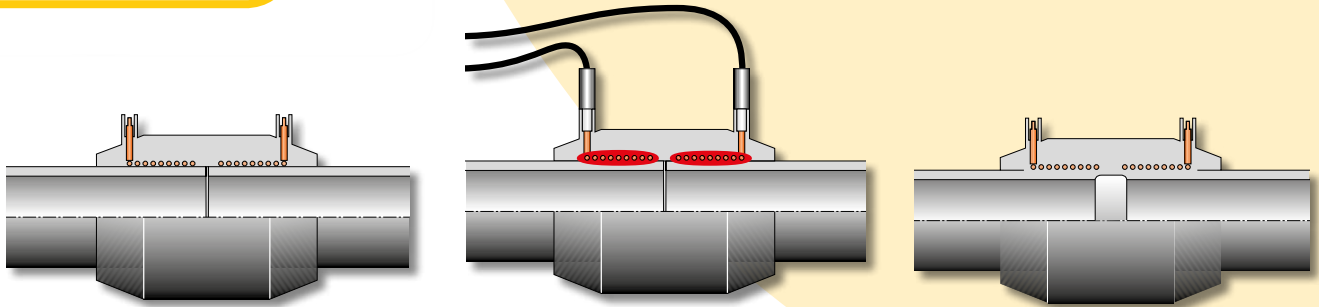


The **ELOFIT** system is based on the **ELECTROFUSION welding process**, one of the most used connection methods in the installation of polyethylene pipes.

Electrofusion is the thermal junction process between pipe and fitting obtained by heating a resistance wire included in the fitting. The fittings have a resistive wire inside which is connected to the outside cable terminals.

When voltage is applied and electrical energy goes through, this resistance generates the heat needed to melt the polyethylene. Energy is directly transmitted to the contact surface between the fitting and the pipe causing heat welding of the parts. When it cools down, the joint is homogeneous, strong, safe and reliable.

The main features of **ELOFIT** are **high quality** and **reliability** of the joints.



TRACEABILITY

One of the latest proposal by **NUPI AMERICAS Inc.** is the new **SMARTWELD welding machine associated to its NUPIWELDING APP**, an innovative tool that allows installers to jump into the future by eliminating paper and manual management of the information related to the installation of pipes and fittings.



NUPI WELDING CLOUD is an APP designed for the most demanding installers that solves all the problems of welding traceability. It allows a total management of all information regarding construction site, welds, traceability of the products installed, installation mapping by GPS tracking and all subsequent testing activities. The new **SMARTWELD welding machine allows to carry out welds without errors and manage them by using the latest technologies such as communication via WIFI and Internet** for welding control and data management, a Cloud storage area and fingerprint detection for the recognition of the identity of the operator.





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