



PLASTICA ALFA
INNOVATION & WATER TECHNOLOGIES

COMPANY PROFILE



Plastica Alfa S.p.A has been operating for over 40 years in the field of plastics transformation for the sectors of irrigation & landscaping (Agribusiness), hydraulics (Water networks), and Thermohydraulics.

The company manages and controls the entire production cycle, from the design and production of molds to the continuous production for molding and extrusion, ensuring constant monitoring of the quality of processes and finished products. The creation of lasting value over the time is the main driver of the company work and it is achieved thanks to the constant development of new projects and the use of modern technologies. Three are the strategic guidelines at the basis of Plastica Alfa's work: Internationalization, Innovation and Specialization. In particular, internationalization is part of the corporate DNA, present in over 80 countries worldwide through a solid network of distributors and agents. Europe, Middle East, North Africa, Sub-Saharan Africa and South America are the main markets in which the company operates.

The ability to export quality products and propose advanced solutions in different fields is strictly linked to the constant attention to innovation, theme essential for the company that invests around 10% of the yearly turnover in Research & Development.



An Italian story

1975-1983

The story begins with the birth of a technical office, Studio Alfa Irrigazione, specialized in the design and installation of irrigation systems. This experience soon evolves into Plastica Alfa Srl, a company manufacturing plastic pipe fittings to support the Studio: working with just two molding presses, the production of Alfa Jo drippers and barbed fittings begins.

1985

The company exhibit for the first time to an international trade show, Eima in Bologna: from this year on, the presence to the international trade shows becomes a strategic moment for the presentation of new products and the meetings with customers and suppliers.

1987

The first line of plastic cylinder valves and ball valves for irrigation is born. Thanks to these items the company enters the foreign market.

1989-1990

The company widens its production to a new field, thermo-hydraulics, with a line of pipe and fittings in polypropylene random (PPR): the Alfaidro system is born.

1991-1992

The project for the first compression fittings line takes shape: the BluLine enters the market quickly becoming a fundamental support for hydraulics and irrigation.

1994-1995

Plastica Alfa obtains the Quality Management System Certificate: it is one of the first companies to endow a control system of all the internal production processes. The second compression fittings line is projected and realized: BLACK line, specifically intended for irrigation.

1996-1998

Plastica Alfa strengthens its irrigation production: drip line fittings and tape fittings are born, both lines are characterized by a high level of flexibility in the installation.

1999-2000

A two-year period of flurry production: Venturi ALFA injectors, Valve Boxes, Disk Filters, all these products are improved and completed in the following years, becoming popular in the foreign market. The company obtains the Certification for the Environmental Management System fulfilling the requirements of the UNI EN ISO 14001 standard.

2000-2001

The production department and the workshop move to the new factory covering an area of 6.000 m². The company invests in new technologies, introducing CAD (Computer Aided Design) CAM (Computer Aided Manufacturing) system.

During the following years other computer numerical controlled tools are employed (CNC workstations, milling machines, electron discharge lathes). The third compression fittings line is born, Blu Line PLUS, characterized by an innovative design, qui-

ck joint system and high performances (PN16). The Quality System improves, fulfilling the new requirements of UNI EN ISO "VISION" 9000:2000 standard.

2002-2003

The company acquires a factory for the production of PE, PPR and spiral pipes. The administrative offices move to the new premises covering an area of 16.700 m², thus counting 32.000 m² in total together with the existing factory.

2004-2006

the first PPR valve with metal ball is born: the Valvevolution range is widened in a short time with the threaded version in PPGF (Polypropylene with Fiberglass), flanged and Victaulic connections for irrigation, hydraulics, food & beverage industry.

2007-2008

Plastica Alfa, together with Valvevolution and Blu Line PLUS brands become copyrighted trademarks. The company widens its products range with MULTYPEXALFA: the new Pex-Al-Pex multilayer pipe and a line of brass nickel-plated Press Fittings.

2009-2012

The new ALFATURBO Hydrocyclone is born: it is the first hydrocyclone entirely made of techno-polymers granting very high-performance levels and a lot of different configurations, making it an indispensable complement for pre-filtration.

2013-2016

Two new ranges are on the market at the same time: Alfa DRAIN - a new line of trapped floor drains intended for the public spaces, sport facilities, swimming pools or parking areas - and ALFAIDRO FASER, the ultimate PPR System of multilayer pipes with an intermediate layer of special fibers. This range includes the NO-FIRE Pipe - PPR-CT firefighting system - FM approved for use in light and ordinary hazard areas.

2017-2019

The expansion towards international markets proceeds with the NSF certification to penetrate the US market (Alfa Green solutions). The research activity on innovative projects continues with the contribution financed by the Ministry of Economic Development for the C3 project (Carbon Capture Conversion). Plastica Alfa also obtains a loan for the Micro Wastewater Treatment Plant with Photocatalytic Surfaces (MICROWATTS project).

2020-2021

During the pandemic emergency, the company invests in personnel training and in the computerization process of the manufacturing plant. New products are designed and ready for the market: the Universal valves and fittings, for the transition from PE to different types of materials (PVC, COPPER; METAL) and diameters.

2022-2023

The product range for thermohydraulics is further implemented by the series of MultypertAlfa pipes.

The company starts a process of business diversification through Originy, a Benefit company founded and 100% owned by Plastica Alfa, is the natural evolution and outlet on the market of the skills and products conceived within the R&D department. Originy boasts a multifaceted and specialized team and a very strong technical know-how in the microalgae sector and the design of photobioreactors for algal growth. The Alfaidro range is further developed with the a line of pre-insulated pipes and fittings - ALFAIDRO SPECIAL - for chilled water applications, district heating and geothermal plants.



Our world

Offering high quality products for 40 years

Integration and diversification are the main features guiding the company's work to offer high quality products. Since 1994 the company has adopted a Quality and Environment Management System complying with ISO 9001 and ISO 14001 standards in order to ensure efficiency and effectiveness of processes, to increase Customer Satisfaction, to improve performance and manufacture products in full compliance to the environment. A careful marketing and communication activities planning is the essential prerequisite for the development of new projects and innovation.

Design, Prototyping & Moulding

All Plastica Alfa products have always been conceived, designed and manufactured in our factories. The company relies on the experience of highly qualified internal staff and innovative software resources in CAD/CAM design and molding and fluid transfer simulation. All the mould making phases are entrusted to the workshop department: a 1000 m2 area with 10 highly specialized working units, operating daily on high-tech CNC machines. Once the mould is done, the first moulded products are tested for conformity; if they meet the design requirements, further laboratory tests check the operating requirements and compliance with international standards.

Injection & Extrusion

In order to offer an increasingly complete range of products, the company operates with two different processing technologies in two distinct plants: injection moulding and extrusion. The moulding area covers an area of 6000 m2, including 35 injection moulding machines from 90 to 1200 tons, working in a continuous cycle all year round and processing more than 2400 tons/year of raw material. The department is staffed by 12 toolmakers and around 50 machine operators in three

shifts. A second production plant is dedicated to the extrusion of pipes; it covers an area of 6000 m2 equipped with five production lines for Pex-al-Pex multilayer pipes, PP-R monolayer and Faser pipes for water distribution and fire-fighting sectors.

Assembly & Packaging

The assembly area occupies an area of 1000 m2 with 4 packaging machines that guarantee the correct packaging and sorting of our products.

The warehouse area covers 10,000 m2 indoor and 20,000 m2 outdoor for the storage of components, semi-finished and finished products and includes an area dedicated to the preparation of shipments. Remote management of the warehouse allows us to know the immediate availability of products and to intervene promptly on minimum stocks.

The company provides the customer with the experience and expertise of highly qualified personnel capable of solving any type of problem arising from the use of our products, which are covered by a certificate of guarantee to fully protect the user and the installer.

Laboratory

The quality, safety and reliability of our products are tested not only in accredited external laboratories but also in our own laboratory, which is equipped with state-of-the-art equipment. Dynamometer, Pressurization system, Computerized system for flow rate and pressure drop measurements, Differential scanning calorimeter, Resiliometer, Plastometer are just some of the instruments to perform mechanical and physical tests, to constantly verify the product compliance with the requirements defined by the reference standards.

Customer care & After sales

The company provides the customer with the experience and the competence of highly qualified staff to solve any problem deriving from the use of the products.

Customers feel as partners with a view to common growth and ethical behavior. The products for plumbing and thermo-hydraulics are covered by a guarantee certificate granting the user's complete protection.



Our business areas

Thermohydraulics

Plastica Alfa has been investing in the sector of water networks over the decades and to date the company boasts numerous product lines. One of the main brands is Alfaidro, a system of pipes and PPR fittings suitable for the transport of hot and cold drinking water, food liquids and chemicals. The range of Alfaidro pipes includes monolayer, Faser and Faser-UV pipes, including a vast series of fittings, valves and manifolds for socket welding and electric sleeves. The Multyplexalfa and Multyperalfa range includes Pex_Al_Pex and Pert_Al_Pert pipes for the transport of water and air under pressure, traditional heating, air conditioning systems, food liquids. Multyplexalfa GAS, is suitable for the transport of gaseous fuels, such as methane or LPG.



Hydraulics

Irrigation, gardening and water networks are the pilot sector of Plastica Alfa production, since its foundation. The core business is the production of various types of fittings, a vast category of products which made the company competitive and successful internationally. The range of fittings includes 2 lines of compression fittings - Blackline and Bluline Plus - Universal fittings, threaded fittings and clamp saddles. The Valvevolution range includes different types of valves, in PPR for socket welding, in PP with threaded and flanged connections, PE valves for butt welding.



Irrigation

Among the products related to the agribusiness, the company boasts a complete range of Drip-pers, barbed and dripline fittings, ball and cylinder valves in PP. In addition, the design team has paid particular attention to updating the range of irrigation products and related accessories, such as PP valve boxes, valve boxes with cast iron cover, check valves. The venturi injector is one of the key products in the field of fertigation, now also available in PVDF for ozonation and chemigation. Sand media filters, hydrocyclones, screen and disc filters complete the offer of the products related to water pre-filtration and filtration.



Firefighting

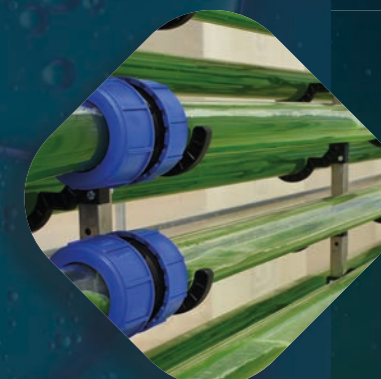
Alfaidro NOFIRE represents the innovation in fire safety, as it is the thermoplastic alternative to metal in the automatic sprinkler systems. Alfaidro NOFIRE is a system of FASER pipes - made of PP-RCT with a special flame-retardant additive and reinforced by an intermediate layer of special fibers - and fittings in PP-RCT; it meets high mechanical strength standards and resistance to aging, and its classification of reaction to fire is B-s1-d0 according to UNI EN 13501-1. It stands out for its ease of installation and handling, thanks also to its reduced weight (up to 80%) compared to the metal pipes, the total absence of corrosion either internal and external, no clogging of sprinklers, reduced maintenance cost.



ORIGINY

Algae Cultivation

Dating from 2012, the R&D department of Plastica Alfa has developed a specific know-how related to the biochemical conversion of CO2 in algal biomass. Plastica Alfa, leading company in the production of technical components for water systems, has developed a technology for the growth of microalgae in closed photobioreactors and designed innovative products to obtain greater efficiency and facilitate maintenance. The high specialized team has developed the methods of cultivation of various microalgal strains and the specific knowledge on the extraction of compounds with high added value.




More than  **130**
Employees

Operating in  **80**
countries worldwide


More than  **3000**
products shipped daily

 **22 MLN**
of turnover

More than **4000**
 customers
worldwide

More than **60%** 
of energy from
renewable sources

100%
 Made in Italy

Investment of **10%** 
of turnover in
research and development

 **5000**
Tons of raw material
processed per year

20
 product
certifications

More than **6000**
catalog
products 

 **100%**
raw material recovered from
scraps



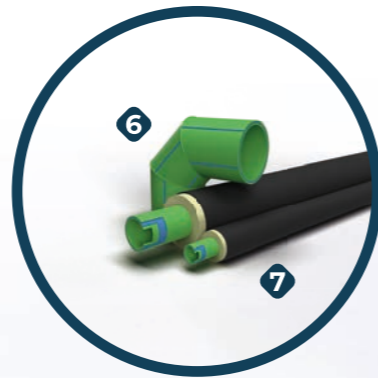
Product range

An extensive product range that responds to the needs of the market

Alfaidro PP-R system Thermohydraulics

Complete system of socket welding pipes, fittings, manifolds and valves, made of Polypropylene Random (PP-R) for hot and cold drinking water in sanitary systems. The range includes UV-resistant faser pipes and fittings for outdoor applications.

- 1 Socket weld fittings
- 2 Threaded fittings
- 3 Ball valves
- 4 Monolayer & Faser pipes
- 5 UV resistant fittings
- 6 Segment fittings
- 7 Pre-insulated pipes and fittings



Multipexalfa system Thermohydraulics

Multipexalfa is PEX-AL-PEX multilayer pipe for hydronic applications and hydraulic systems; it grants an outstanding performance thanks to the perfect combination of metal and plastic.

- 1 PEX-AL-PEX Multilayer pipes
- 2 PEX-AL-PEX Multilayer gas pipes
- 3 PEX-AL-PEX Insulated multilayer pipes



Fittings Hydraulics

Complete system with compression fittings, BSP and NPT threaded fittings, clamp saddles for connecting PE pipes. Suitable for the transport of drinking water, for the conveyance of wastewater and industrial water and for connections and branches in irrigation.

- 1 PN16 Compression fittings
- 2 Threaded fittings
- 3 Clamp saddles



Valvevolution

Hydraulics

Plastica Alfa Valvevolution range of valves and bibcocks offers technical solutions tailored to a wide range of applications. Thanks to the special molding technique, the body is produced in one piece, ball and seals cannot move from their seats, even in the most extreme operating conditions. The materials provide a high level of security and resistance to temperature and operating pressure, thus ensuring a long service life.

- 1 Alfarapid grooved valves
- 2 Threaded ball valves
- 3 HDPE fusion valves
- 4 ICE valves
- 5 PP-R ball valves
- 6 Flanged ball valves
- 7 Compression ball valves



Cylinder Valves & Fittings

Irrigation

Cylinder valves and drippers for irrigation are complemented by pop-up sprinklers, tape & dripline fittings, hose connectors and accessories for gardening.

- 1 Drippers & Sprinklers
- 2 Cylinder Valves
- 3 Modular Manifolds
- 4 Drip & Tape fittings
- 5 Pop-up & Quick coupling valves
- 6 PNG Ball valves & Garden connectors



Quick connections

Hydraulics

PAGF flanges and complete system of fittings, valves and adapters PN16 for waterworks and irrigation. Alfarapid couplings, grooved fittings and valves for water networks and ultrafiltration.

- 1 Flanges
- 2 Alfarapid system



Valve boxes & Injectors

Irrigation

Extremely versatile and durable garden and irrigation valve boxes. Available in various sizes, round and rectangular. For specific uses, available with ice valve and water meter connection.

Mainly used as fertiliser pumps, Venturi Alfa injectors are resistant to chemicals and used in agricultural fertigation or industrial applications. Now available in PVDF for Ozone applications

- 1 Venturi Alfa injectors
- 2 Valve boxes w/ice valve
- 3 Valve boxes



Filtration Irrigation

Complete line for filtration in the industrial, agricultural and water treatment fields, with BSP and NPT threads or Alfarapid connections. The combination of different types of filters and hydrocyclones in multiple meshing steps is ideal for the construction of filtering and pre-filtering units.

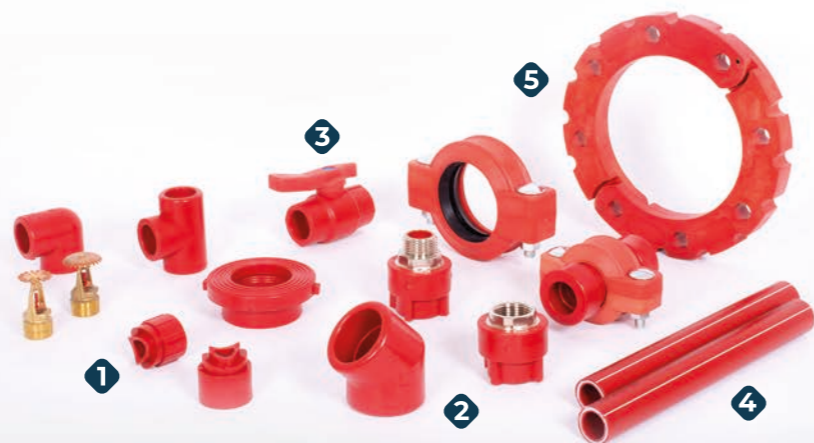
- 1 Screen filters
- 2 Disk filters
- 3 Hydrocyclone



Alfaidro NOFIRE system Firefighting

NOFIRE is a PPR system including pipes and fittings for fire sprinkler systems that simplifies installation, eliminates pipe maintenance and guarantees a service life of 50 years. Compared to metal, it grants no corrosion, no fouling and no clogging of sprinklers. Quick installation by socket welding/butt welding.

- 1 Socket weld fittings
- 2 Threaded fittings
- 3 Ball valves
- 4 Multilayer faser pipes
- 5 Flanged & grooved connetions



WATER REALLY MATTERS



Our products worldwide



Abu Dhabi Plaza
Astana
Kazakistan



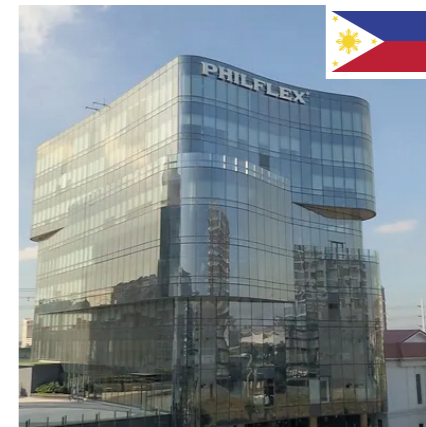
Al Bateen Tower
Dubai
UAE



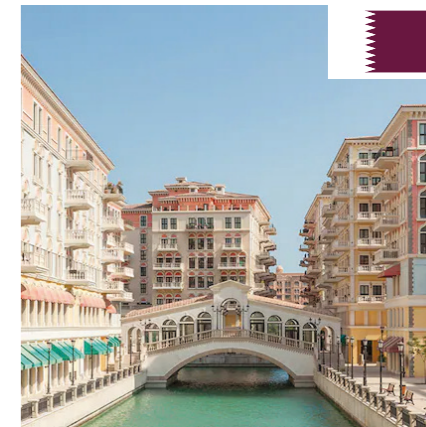
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Batumi
Georgia



Hotel Hilton
St Julian's
Malta



Philflex office
Manila
Philippines



Qanat Quartier
Doha
Qatar



BDO Corporate Center
Mandaluyong
Philippines



Etihad Towers
Abu Dhabi
UAE



Eton Residences
Makati
Philippines



Rocco Forte Hotel
Abu Dhabi
UAE



SM Keppel Tower
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Polo Petrolchimico ENI
Gela
Italy



Mangiabove Guest House
Marina di Ragusa
Italy



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Roma
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