




*Streaming Water. Streaming Life!*

# Technical Data Sheet

## ELYSÉE GREENDRIP





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# ABOUT ELYSÉE

## HISTORY

Founded in 1969, Elysée was initially dedicated to the cultivation of flowers. This gave the founders firsthand experience and a full understanding of the diversity of irrigation needs. With such knowledge and experience, the natural next step in the business was to start designing and developing irrigation systems. This was a stepping-stone to further expansion, this time into the field of water supply and piping systems.

Elysée manufactures and supplies piping systems & fittings for Building & Infrastructure, Irrigation, Landscape and Industry.

Based in Cyprus, a key location at crossroads of three continents, Elysée serves more than 65 destinations in Europe, the Middle East, South Africa, Japan, Australia and New Zealand.



## OUR VISION

***"To be a green leader worldwide through Innovative, Smart, Easy to use Piping Systems."***

### GREEN COMPANY

Elysée acknowledges that businesses have a tremendous impact to climate change and can help in the fight against it. For this reason, we are setting a strategic approach to help us ultimately lead the way to a circular economy model, a testimony of our commitment to quality, towards the fulfillment of our goals for sustainability. Generally, a company's minimized carbon footprint is what leads to carbon neutrality. We are dedicated to our dream to guide Life on a green path. Our goal is to continue striving for becoming a leading sustainable world supplier in piping systems, thus, keep offering to the public a wide selection of the most trustworthy products and of the highest standards. At the same time, we are taking all the necessary steps to ultimately become a Green Leader and an exemplary model for other Cypriot & European businesses.

### STREAMING WATER. STREAMING LIFE.

Our love for water led to Elysée conception. From all the resources in the planet we consider water as the most valuable. Water is a living cycle. It moves, transforms and makes life possible. Our respect for the value of natural resources and our commitment to preserve them has always been Elysée's primary concern.

# WHY ELYSÉE

- **Green company.** Elysée acknowledges that businesses have a tremendous impact to climate change and can help in the fight against it. For this reason, we are setting a strategic approach to help us ultimately lead the way to a circular economy model.
- **Easy to Use.** Elysee products are developed in close collaboration with end users. Designed for durability, simplicity of installation, and long-term performance.
- **Know-how.** Elysee has a strong position in the Plastic Piping Systems market because to its 40 years of expertise.
- **Truly International.** Presence in more than 65 countries in all 5 continents through an ever-increasing family of distributors.
- **Reliability & Quality Assurance.** Elysee is certified by the most reputable international standardization organizations such as DVGW, OVGW, WRAS and KIWA among others.

## RESEARCH AND DEVELOPMENT

Since 2005, Elysée has made significant investments in Research and Development (R&D) activities. The company establishes an in-house R&D department to conduct significant research and innovation activities, increasing the company's competitive edge over the competitors. Indeed, R&D is critical to the business brand and performance both locally and worldwide.

Several patents and industrial designs have been granted, with others pending.

The R&D team is made up of great mechanical engineers and product designers that work on many projects with the goal of designing and developing breakthrough product solutions as well as re-engineering the current ones.

3D printing and CNC machines are used for prototyping new parts and testing methods to ensure quality requirements are met. 3D scanners and smart measuring devices are assigned for reserve engineering, improving and inspecting current products. Moreover, the R&D team contributes to the enhancement of all production stages, assuring productivity, procedure implementation, and operational efficiency.

Furthermore, Elysée focuses on Research, Technology and Innovation research through innovative actions and funding programs.



# QUALITY, A MATTER OF PRINCIPLE AND PRACTICE

Quality has been a primary element guiding Elysée activities from its beginnings. By introducing and implementing a quality management system, we monitor our operations and efficiency, to enhance our overall performance. Today, Elysée Irrigation Ltd is delighted to have globally recognized pipe system accreditation, demonstrating its dedication to excellence. Elysée has kept quality as the key foundation of all its operations, hence being reputable for its high-quality products in all aspects.

Our Quality Control (QC) team is composed of potent mechanical and technical engineers, along with highly trained inspectors who pay attention to detail according to the standards followed. Through carefully constructed Quality Control Guidelines, the team daily monitors the production lines and ensures the best quality of products, according to international standards to meet customers' satisfaction.

With advanced technology at hand, we perform daily quality inspections using smart measuring devices, specialized testing machines and an upgraded database. Furthermore, having our own state of the art 3D scanner gives a lead on constant failure-point detection, generating reports and proceeding with corrective actions for further improvements were required.

From raw material to end-product and into the hands of the customer, our goal has always been to deliver the optimum quality possible. All products undergo in-house laboratory tests and in external accredited labs, in compliance with current relevant standards. This ensures and guarantees our products, as they are thoroughly checked and approved by professional bodies.

## WARRANTY

Our warranty includes the repair or replacement of defective parts in our production plant or in the after-sale service location. Replacement or repair of parts under this warranty will not extend the warranty period of the original product. No warranties are given in regard to normal wear and tear due to use of the products. The expenses for return and shipment of defective materials shall be paid by the buyer.

This warranty does not cover those cases in which the product:

- Has been incorrectly handled;
- Has been repaired, maintained, or modified by an unauthorized person;
- Has been repaired or maintained with other than original pieces;
- Has been installed or placed in operation incorrectly;

Elysée's products are designed to meet the general standards and are conducted to variety of tests to verify that they meet the product requirements. Elysée holds more than 30 notable International Product Certifications, including DVGW, KIWA, SII, WRAS, SAI, OVGW and SVGW.

ISO9001, ISO 14001, ISO 45001, and EMAS certifications demonstrate Elysée's dedication to quality, environmental preservation, and employee safety at all phases of manufacturing, from raw materials to sales.



# ABOUT GREENDRIP

## DRIPLINES & HOSES

Male Adaptors, End Plug, Couplings, Tees, and Elbows are all part of the Dripline series. The new series is part of the lightweight family and is suited for exposure to sunlight (UV) as well as having great chemical resistance.

Dripline size and mechanical qualities are in accordance with applicable international standards. Driplines are checked on a regular basis and according to the company's testing methods to verify that all standards and regulations are met.

This dripline series has a user-friendly and ergonomic design. They were designated to make the experience of professionals and/or individuals easier. The objective of the present invention is therefore to provide a connector and a pipe system, as well as a process for mounting a pipe system, which is easy to be set up and which allows for a strong, reliable connection between the pipe or hose and the connector.

## WHY GREENDRIP

### CIRCULAR ECONOMY & "GREEN" PRODUCTS

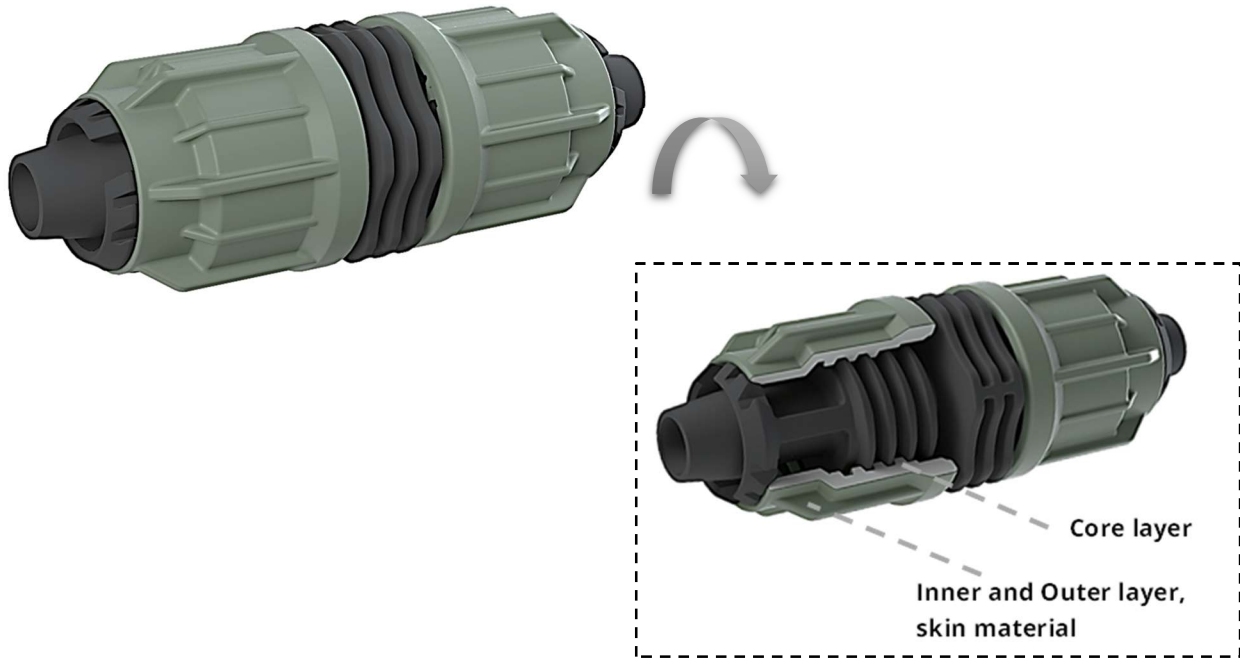
Circular economy and green products are two related concepts that aim to promote sustainability and reduce waste in our economy and society. The circular economy refers to a system in which resources are kept in use for as long as possible, waste is minimized and the value of products, materials and resources is maintained over time. This can be achieved through strategies such as designing products for durability and repairability, using renewable energy sources, and implementing closed-loop systems where materials are recycled and reused.

Consequently, green products, are products that have been designed and manufactured with sustainability in mind, using materials and production methods that minimize environmental impact. This can include the use of renewable and biodegradable materials, energy-efficient manufacturing processes and reduced packaging and transport impacts.

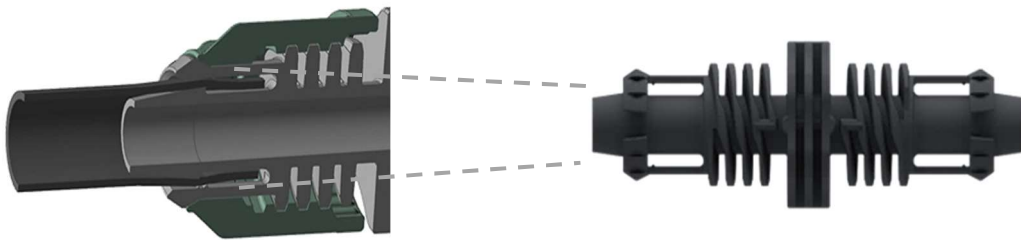
The circular economy and green products are complementary concepts that can work together to create a more sustainable economy and reduce the negative impacts of our current linear economy. By designing products for circularity and sustainability, we can reduce waste and pollution, promote resource efficiency, and support a more resilient and sustainable future.

## FEATURES

**NUT** Modern design and unique shape



**NEW FEATURE** A unique locking system



**BODY** Strong structure for bending resistance and a smooth inside surface

- Sound Indication in locking mechanism;
- Half-turn locking system;
- Use of top-class raw materials;
- Lightweight;
- Outdoor resistant with extensive lifespan;
- Easy installation and assembly;
- Corrosion resistant, suitable pipe bending and pulling out;
- Better alignment and strong engagement during pipe connection;

# MATERIALS AND COMPONENTS



The main purpose of the light fitting dripline is to be use in irrigation networks and low pressure conveyance of water.

1. **NUT:** Sandwich structure comprised of core and skin:

- **Core material:** Recycled Polypropylene – secondary raw material obtained from mechanical recycling
- **Skin material:** Virgin polypropylene

Nut material ensure optimum strength and leak tightness under severe environment conditions.

2. **BODY:** Polyacetal (POM)

Body is produced as one piece with embodied clip ring. The light fittings are made by polyacetal which is used in precision parts that require high stiffness, low friction and excellent dimensional stability.

## TECHNICAL DATA

### QUALITY MANAGEMENT

- GreenDrip fittings are manufactured in accordance to internal specifications conformed to the company's CYS EN ISO 9001.
- The dimensions of the threaded profile comply with the requirements of the international standards BS 21 and ISO 7.

### TESTING OF FITTINGS

- Product approval includes a Hydrostatic Pressure test and a custom made Sauna test. Pipe pullout resistance test
- GreenDrip fittings are Suitable for use in potable water supply systems

### DIMENSIONS AND CHARACTERISTICS

- GreenDrip fittings comply with the dimensional requirements of ISO 9911 and any other characteristics of the different combination.

### OPERATING PRESSURE

- Driplines are suitable for working pressures up to 4 bar @ 20°C.

### APPLICATION FIELDS

- Mainly for irrigation purposes, as a secondary line valve, where flow control is required.

### ENVIRONMENT

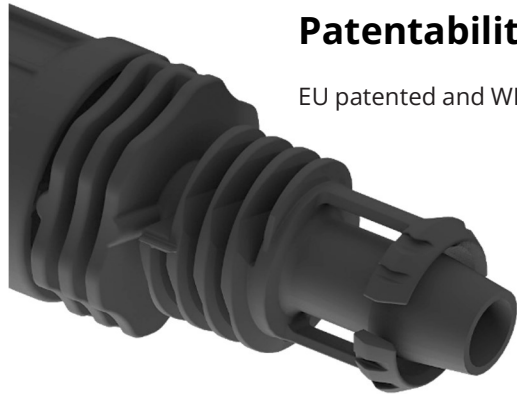
- GreenDrip lightweight fittings are suitable for the transportation of cold water as indicated by the relevant standard.

### LANDSCAPING

- GreenDrip fittings offer excellent weathering properties which protects against degradation due to ultra-violet radiation.
- Therefore, their use is permissible on exposed systems without additional protection.



# PATENTS



## Patentability

EU patented and WIPO has been filed.



*-Not an official patent  
publication number yet-*

PATENTED



## ASSEMBLY PROCEDURE



Take the assembled dripline fitting and the correct diameter



Place the pipe into the fitting, through the nut and the dripline body, until meeting the end

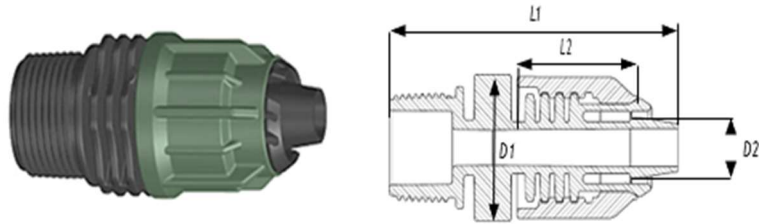


Tighten the nut up to the locking position. Locking will be indicated by a click sound

# AVAILABLE FITTINGS & SIZES

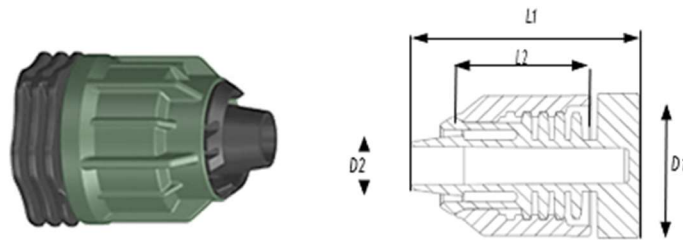
For the 16mm nut, three GreenDrip versions have currently been successfully designed, manufactured, and verified. Adaptor male, end plug, and coupling have been demonstrated through the research project GreenDrip. It is useable for different pipe thicknesses from 0.8 to 1.3 mm, and 1.5 mm as well.

## No.760 Adaptor Male



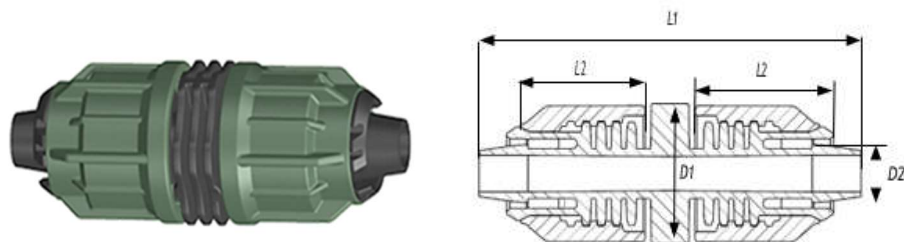
Code	Description/ Size	L 1 (mm)	D 1 (mm)	L 2 (mm)	D2 (mm)
760*****	16 mm x 1/2"	78.9	36	33	15
760*****	16 mm x 3/4"	74.1	36	33	15

## No.760B End Plug



Code	Description/ Size	L 1 (mm)	D 1 (mm)	L 2 (mm)	D2 (mm)
760B*****	16 mm	55.7	36	33	15

## No.761 Coupling



Code	Description/ Size	L 1 (mm)	D 1 (mm)	L 2 (mm)	D2 (mm)
761*****	16 mm	101.2	36	33	15