

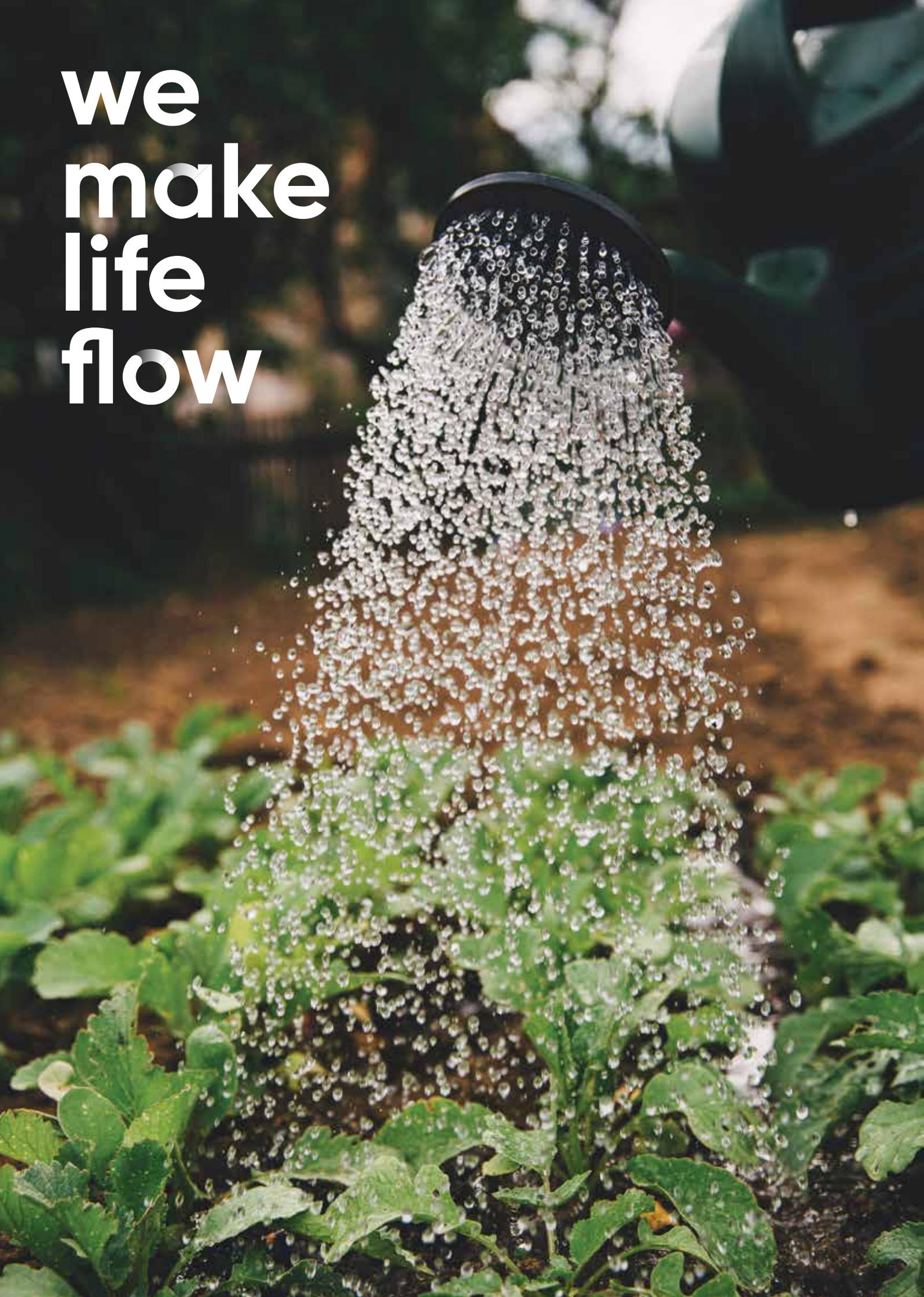
# Aliaxis Middle East Irrigation Solutions



[aliaxis-me.com](http://aliaxis-me.com)



**we  
make  
life  
flow**



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# Introducing Aliaxis Middle East

Our regional office in Dubai, UAE, was set up in 2012 followed by our office in Riyadh, KSA, in 2014, to provide strategic support to our leading brands that have been tried and trusted in the Middle East market for over 40 years.

Aliaxis ME places huge importance on providing comprehensive local support and this is achieved through responsive support teams. This means we work closely with you to provide products and solutions that continually exceed expectations ensuring projects run smoothly and reliably. Whether you are an architect, MEP

consultant, contractor, interior designer or installer, you can count on Aliaxis ME to provide carefully tailored solutions that are reliable, safe and sustainable.

Our regional offices offer technical and sales assistance to all our Middle East customers on both wholesale and project sectors in our key segments.

The Aliaxis ME team is split between Dubai and Riyadh and comprises a variety of nationalities, diverse cultures, and unique strengths which collectively enable us to offer the world-class service we have today.

# We solve problems, bring solutions and create value.



**Building solutions**

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**Infrastructure & Utility**

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**Industry**



**Agriculture & Irrigation**



# The Aliaxis Advantage

## Maximizing efficiency and reducing wastage.

Well-designed distribution, irrigation, washing, and drainage systems are critical components in creating sustainable solutions in all types of agriculture and irrigation, ensuring water reaches the places it's needed most while minimizing losses through leakage and waste.

Monitoring the quality and flow of water is vital to preserving one of the most precious natural resources on the planet and, at the same time, significantly reducing costs. Aliaxis provides a wide range of high-quality, long-lasting solutions for water conveyance, management, and use.

At Aliaxis, We use our global expertise from solving irrigation and agricultural challenges worldwide to create the right solution for every application, with a vast range of product solutions to help customers across the agricultural sector meet today's challenges and build sustainable, future-proof systems for the needs of tomorrow.



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# Filtration

Suspended solids must be removed from irrigation water to prevent clogging piping, valves, nozzles, and emitters. Ground water, although usually clean, may contain fine particles of sand or suspended iron. Filters can help extend the life of, and lower the maintenance on irrigation systems.

For water filtration, the Filtmaster system ensures very high efficiency performance. Easy to install and clean, it has a versatile modular structure with filtering capacity characteristics that make it suitable for any type of water.

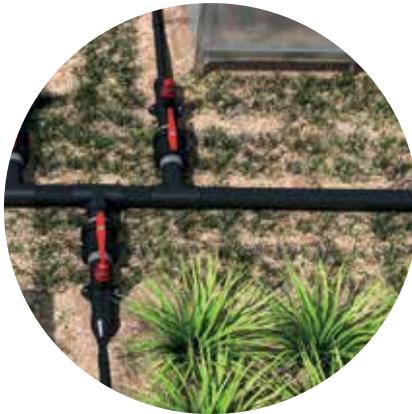




## FILTMASTER manual and automatic filters

Jimten Filtmaster uses the most advanced technology to achieve efficient water filtration in the industrial and agricultural fields. Its modular filter system with filter media, screen and disc filters has a wide molecular capacity which means it is versatile and suited to any kind of water.

Furthermore, the patented disc system allows a real micron gap along the filtering surface. Jimten Filtmaster offers several unique benefits which include simple installation, adaptation to a variety of water types and ease of cleaning. This makes it one of the most efficient, versatile and profitable filtration tools on the market.



- Manufactured in Spain
- Range: Available in 25, 50, 100, 130 and 200 microns, with a range applicable both in low volumes (up to 15 m<sup>3</sup>) and flow rates up to over 600 m<sup>3</sup> capacity.
- Filters 2" and 3" allow multiple configurations to create manual versions, hydro-cyclone and self-cleaning

# Compression Fittings

Compression Fittings provide joining technology that allows the connection of PE pipes mechanically. A popular alternative to fusion technologies due to their ease of use and no need for external energy sources, compression fittings are equally suited as permanent or temporary joints for pipelines up to 110mm in diameter.

Key applications for compression fittings in irrigation include:

- Connecting PE used on lateral lines for turf and agriculture.
- Connecting to pump-sets and filtration devices.
- Transitioning from control valves to PE pipe.

Aliaxis has a broad offering of compression fittings for irrigation, suiting both imperial and metric dimensions. Our compression fittings are specially designed to optimize performance and simplify connection techniques.





## The Best Solution for Water Adduction with the most advanced pipework system

The ASTORE polypropylene compression fittings are used for various applications where a lightweight, flexible and durable pipework system is required. They are suitable for installations that may require occasional disassembly or partial removal for maintenance. They can be used in irrigation and

drinking water systems, where a quick and simple pressure connection is required.

Furthermore, ASTORE also offers a wide range of clamp saddles and compression fittings and a modular manifold system that can be used for a wide range of water-related applications.



- Manufactured in Italy
- Body and nuts molded in PP-B, clinching ring in acetylic resin, o'ring gasket in NBR
- Range: from d.16 mm up to d.110 mm
- Working temperature: from 0°C up to 60°C





## Gama'55 Water Conduction System for PE pipes

Jimten Gama'55 offers an extensive range in compression fittings for PE pipes (low & high density) of the market. Its compact design, easiness of installation, and reliability make it the perfect water conduction system for PE pipe. The security operation is achieved through the perfection of their sealing system and its conical grip ring design,

FOR ALL polyethylene pipes. Its flexibility and pull-out resistance exceed all specifications of existing standards.

Furthermore, Jimten Gama'55 has a series of adaptors that enables the union with other types of pipes. Also, to complement Gama'55 system, Jimten offers a comprehensive range of double union valves to connect PE pipes.



- Manufactured in Spain
- Body and nuts molded in PP, Toothed conical ring in PPO, o'ring gasket in NBR
- Range: PN16 from  $\varnothing$  16 to 63 mm. PN10 from  $\varnothing$  75 to 110 mm
- Working temperature: from  $-20^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$



**WRAS**



**IIP**





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## Compression Fittings to connect PE pipe in both metric and imperial sizes

Philmac pipe connection solutions are ideal for irrigation, from domestic watering, through to landscape and horticulture, as well as for main water supply.

Its wide range of innovative compression fittings include 3G Metric Imperial, the only compression fitting in the world that can connect both metric and imperial sized PE pipes from either end. The

award-winning Universal Transition Coupling (UTC) range connects rigid pipes of different materials with different outside diameters, making connections between PE, PVC, Copper, or Galvanized Iron pipes easier than ever before. Safelok is Philmac's latest range of compression fittings to connect PE pipes up to 110mm.



- Manufactured in Australia
- Body and nuts molded in PP, Toothed conical ring in PPO, o'ring gasket in NBR
- Range: 3G Metric Imperial Compression Fittings from 1/2"/20mm up to 2"/63mm with PN 16, Universal Transition Compression Fittings from 20mm up to 63mm Safelok (Large Diameter) Compression Fittings up to 110mm
- Working temperature: from -20°C to +80°C



**WRAS**

# Mainline Fittings

As the mainline is the main artery for irrigation water, mainline fittings play a vital role in ensuring that the irrigation system performs at its best. Efficient water distribution starts with having the proper mainline fittings to reduce pressure loss. Our products are made from high-quality materials and are cost-effective. The fittings chosen can significantly impact how much pressure loss occurs over long distances.





## PVC Pressure Fittings

Astore PVC pressure fittings are ideal for pressurized irrigation systems as they offer multiple advantages. Its ease of installation and quick connections make these pressure fittings perfect for joining PE pipes. Astore pressure fittings can convey water with high pressure up to PN 16, which helps with long irrigation systems that need stability. Also, it allows you to

change the design of the irrigation system, which makes it different from other types of connections. U-PVC is lightweight and is extremely easy to install which can save both time and money on any given project when compared to other, more traditional pipework materials.



- Product Range: Metric series from d. 12 mm to d.315 mm, threaded series from r. 3/8" to r.4", and transition series from d 16x3/8" to d. 110x4"
- Pressure Rating: Metric series PN 16 up to d. 160 mm, PN 10 from d. 180 to d.315, threaded and transition series PN 10
- The pressure fittings are in u-PVC, the gaskets in EPDM, and the reinforcing rings in galvanized steel



## Clamp Saddles

Astore clamp saddles are the ideal solution for branching from existing mainlines for water and irrigation, and they allow the flexibility to branch off and take water when and where it is required. The mechanical clamp saddle in PP-B is used to obtain branches from the main pipe. It is an economical and

straightforward solution, useful for quick Interventions. The O'Ring provides the seal between the outlet and the pipe, secured by screwing the metallic nuts and bolts. The Astore clamp saddles are suitable to apply on all metric pipes independently from the material.



- Manufactured in Italy
- Product Range, PN 10-6-4 according to dimensions:
- Single branch coupling with pipes from d.20 up to d. 110 mm, threaded branch from 1/2" to 3"
- Single branch coupling with pipes from d.20 up to d. 315 mm, threaded branch from 1/2" to 4"
- Double branch coupling with pipes from d.20 up to d.315 mm, threaded branches from 1/2" to 4"
- Working temperature: from 0°C up to 60°C
- Body saddle in polypropylene black co-polymer , nuts and bolts in zinc chromed steel, O'Ring in nbr, reinforcing ring in AISI 430.



# Irrigation Valves

Irrigation valves are specifically designed for outside water distribution systems, irrigation in-ground applications, residential landscapes, agricultural and commercial tracts, and golf courses. They are critical to any irrigation system as they connect and control the water flow. Flow control is an essential part of any pipework system; Aliaxis offers a wide range of reliable irrigation valves, from single and double union ball valves, air release valves to solenoid valves. We are dedicated to providing an unrivaled solution that addresses the needs of any irrigation and agricultural processes





## Irrigation Valves for PE Pipes

In irrigation, PE pipes are well known and appreciated, Astore PVC valves are a good solution to adjust the flow in these specific pipeline, the union ends able to couple to PE pipe or threaded gives different possibilities.

This range of Astore PVC ball valve are expressly realized to connect PE pipes. To complete the irrigation solution range, single and double union irrigation ball valves are also available.



- Manufactured in Italy
- Range: from d.16 mm up to d.110 mm
- Working temperature: from 0°C up to 60°C
- Easy and simple connection, through compression fitting solution and Butt welding or electrofusion welding





## Irrigation and Air Release Valves

The use of air release valves in hydraulic pipelines is necessary and is one of the most important safety elements in all hydraulic installations. The JIMTEN air release valves manage the air inside the pipelines, preventing damages by negative pressures or overpressures and guaranteeing optimal hydraulic performance.

It offers a compact design and single hydraulic locking for all functions. The PP floater guarantees closing at low pressures and prolongs the installation's service life, avoiding the suction of impurities. The triple effect air release valve working in air admission/expulsion eliminates the pressurized air accumulated in the pipe system.



- Manufactured in Spain
- Range: 3/4", 1", 1 1/2" and 2" NPT/BSP male threaded connections. PN 16 bar.
- Working pressure: 0,2-16 bar
- Working temperature: from +5° C to 60° C



## Solenoid Valves and Variable Area Flowmeters for Fertigation

The solenoid valve is the ideal solution for applications requiring many rapid actuation cycles and installations in confined spaces. Thanks to the absence of metal parts in contact with the fluid or the external environment, it can also be used in the presence of aggressive fluids.

The variable area flowmeters operate according to the variable area principle, where a float is

suspended in upward flowing media in a conic plastic tube. The metering tube is graduated in suitable flow units, and the top edge of the float indicates the instant flow rate value. Versions for liquids and gases are available, providing accurate and cost-effective measurement with scales in l/h and Nm<sup>3</sup>/h.

The Solenoid Valves and variable area flowmeters are ideal for use in fertigation benches.



- Manufactured in Italy
- 2-Way PVC-U body, flexible installation and ease of maintenance
- Range: S12: DN 4-6-8  
S22: DN 8-10-15



- Working temperature: from 0°C up to 50°C
- Lever shutter in EPDM or FKM and lever in stainless steel
- The variable area flowmeters come in a wide range of measuring scales, end connections, 8 different diameters, 5 different tube lengths, and 3 different plastic tube materials



# Irrigation Equipment

To complement our offering in irrigation and agriculture solutions, Aliaxis also provides irrigation equipment such as micro-irrigation, catch basin and valve box as well as instrumentation such as reliable paddlewheel flow sensor.





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## Micro-Irrigation Solution

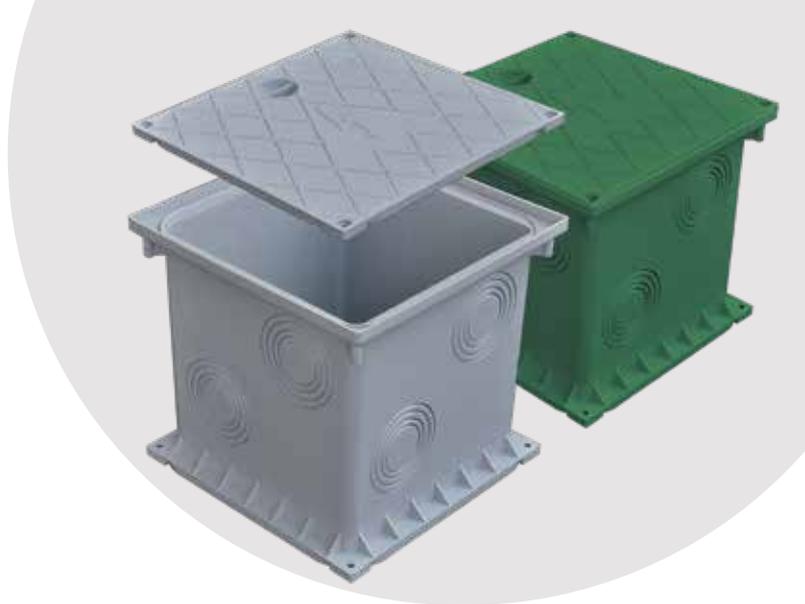
Philmac provides a premium quality micro irrigation solution for both Landscape and Agriculture.

Manufactured from high quality materials, Philmac's micro-irrigation fittings, stakes and tube are widely used in domestic gardens, commercial landscape and horticultural applications.



- Manufactured in Australia
- Range includes drippers, spray jets (with fixed or adjustable flow-rate), sprinkles, fittings and valves

# REDI



## PP Catch Basin & PVC Valve box for irrigation

REDI PP Catch Basin are:

light-weight - easier to install than concrete chambers - fully injection moulding - high durability - preformed cutouts for insertion of pipes in various sizes on all sides - smooth rounded angles for a higher shock resistance - it may be used as a connector block for electric systems. A concrete floor seating is recommended to prevent subsidence.

PVC Valve box for irrigation are essential to connect irrigation hoses in gardens and pedestrian areas.

- easy-to-use built-in brass valve
- high resistance to mechanical stress
- high UV resistance
- hinged cover.

The box can be closed even if the hose is connected. It may be laid underground or fixed with concrete.



- Manufactured in Italy
- PP Catch Basin Range:
- PVC Valve Box Range: 200mm x 200mm



## FLS Wireless Paddlewheel Flow Sensor F3.00.W

The new FIP paddlewheel flow sensor F3.00.W B.L.E. (Bluetooth Low Energy) is the best solution for applications on irrigation systems.

It is an innovative system for flow monitoring based on Bluetooth® Low Energy transmission technology. The paddlewheel flow sensor is provided with an integrated transmitter that communicates with the receiver.

The FLS B.L.E. F3.00.W is a reliable solution for every kind of solid-free liquid. Easy and quick to install, it can cover long operating distances (up to 100 meters) and work in presence of electromagnetic interferences generated by devices like pumps or inverters. Also, the auto-diagnostic system keeps updated about a possible signal loss and alerted about low battery status.



- Manufactured in Italy
- Pipe size range: from DN15 (0,5") to DN600 (24")
- High chemical resistance, Self-pairing system, Self-diagnostic check and reporting







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