



Advanced  
Automation  
Systems



# Aquarius PC™

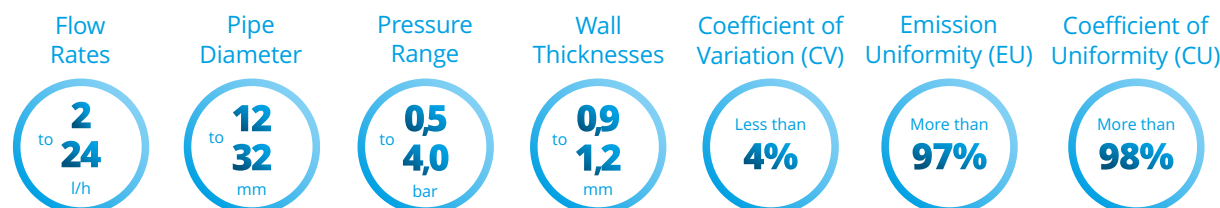
Online PC Emitter

The most versatile and easy to install Pressure Compensating emitter for a great variety of applications

# Aquarius PC™

## Online PC Emitter

The most versatile and easy to install Pressure Compensating emitter for a great variety of applications.



Aquarius PC™ emitters can be installed manually exactly where they are required. The number of emitters can be increased in order to increase water supply aimed at meeting tree growth rate requirements. Aquarius PC™ design allows the installation of manifold outlet with multiple outputs. One type of outlet suitable for 3 mm internal diameter micro-tube and for press-fit nipple connectors.

### Pressure Compensating (PC)

Aquarius PC™ emitters incorporate a silicone membrane which enables the delivery of precise and equal amounts of water over a broad pressure range. Aquarius PC™ emitters are designed for precision irrigation needs, ranging from a home garden to the most advanced hydroponic applications.

- |                                    |                 |                            |
|------------------------------------|-----------------|----------------------------|
| Precision irrigation               | Uneven terrains | Soilless culture           |
| Continuous self-cleaning mechanism | Orchards        | Pulse irrigation           |
| Wide water passages                | Landscaping     | Manifold outlet capability |

### Drain (D) and Non-Drain (ND) Options

With the Non-Drain system of Aquarius PC™, the pipe remains full of water during irrigation intervals, ensuring immediate and uniform irrigation along the pipe. Non-Drain emitters eliminate drainage and refill effect, and improve efficiency in pulse irrigation. In order to achieve the Non-Drain function, the emitter closes when the pressure is below 0,1 bar.

### Self-Piercing Barb option available

Designed for installation on 1/2" or 3/4" PE pipe with wall thickness from 1,1 to 1,2 mm

- No pre-drilling required
- No Separate Punch
- Just Push & Install



## Aquarius PC™ Design Characteristics

### Ultrasonic Welding Technology

The advanced welding process of Aquarius PC™ eliminates the problem all online emitters eventually face, leakage between the body and the cover of the emitter. In our emitter this is prevented by a parallel formation and welding of the cover, around the edge of the body of Aquarius PC™, making it impossible to leak regardless of the climatic or pressure conditions

The design of Aquarius PC™ emitter provides all the benefits of the large online emitters in compact dimensions which make it the perfect choice in terms of value



Aquarius PC™ emitters have been tested by independent institutes worldwide and achieved the highest ranking for CV, emission uniformity, flow accuracy and clogging resistance

Cylindrical labyrinth with wide water passages. Color distinction for different flow rates

Chemical-resistant silicon diaphragm

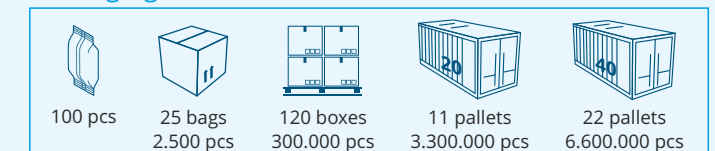
Emitter cover with color distinction for Drain and Non-Drain function

Installation with a 2,8 mm punch tool

Actual Size  
28 mm



### Packaging



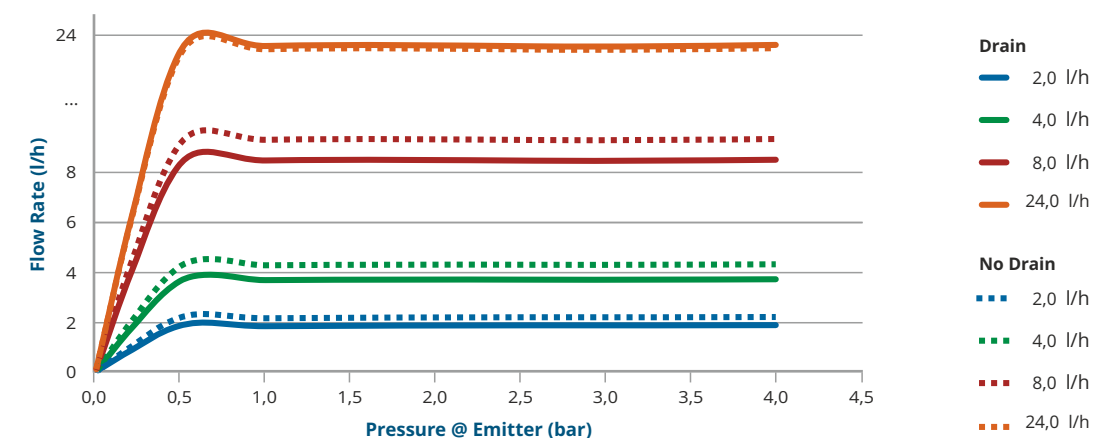
## Aquarius PC™ Emitter Specifications

| Nominal Flow Rate (l/h) | Constant k (bar) Drain | Constant k (bar) No Drain | Exponent (x) | Water Passage Width x Depth x Length (mm) | Filtration Area (mm²) | Recommended Filtration (mesh/micron) |
|-------------------------|------------------------|---------------------------|--------------|-------------------------------------------|-----------------------|--------------------------------------|
| 2,0                     | 2,0                    | 2,1                       | 0,0          | 1,00 x 1,00 x 55,4                        | 3,80                  | 120/130                              |
| 4,0                     | 3,8                    | 4,2                       | 0,0          | 1,30 x 1,10 x 50,6                        | 3,80                  | 120/130                              |
| 8,0                     | 8,4                    | 9,0                       | 0,0          | 1,50 x 1,15 x 46,5                        | 3,80                  | 120/130                              |
| 24,0                    | 23,5                   | 23,5                      | 0,0          | 1,35 x 1,20 x 35,0                        | 3,80                  | 120/130                              |

Pressure range: 0,5 - 4,0 bar

24 l/h emitter available with cap

## Aquarius PC™ Emitter Flow Curves





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