



Advanced  
Automation  
Systems



# Cu Triton PC™

Copper Oxide Infused  
Cylindrical PC Emitter

The most durable Pressure Compensating emitter, designed for permanent crops with long laterals and multi-season subsurface applications

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## Copper Oxide Infused Cylindrical PC Emitter

**The most durable Pressure Compensating emitter, designed for permanent crops with long laterals and multi-season subsurface applications**



### Copper Oxide Compound

Our Cu Emitter Line™, provides a solid defense against root intrusion in SDI installations. The copper oxide compound which our emitters contain, act as a barrier to roots and invasive underground rhizomes of the plants.

Moreover, the Cu compound that we use inhibits the growth of algae, bacteria, and fungi development, reducing the risk of clogging in the emitters and dripline. The Cu Emitter Line™ products use the same injection moulding process as the non Cu emitters, since the PE compound contains the active copper oxide ingredients.

### Pressure Compensating (PC)

PC emitters incorporate a silicon membrane which enables the delivery of precise and equal amounts of water over a broad pressure range. Cu Triton PC™ emitters are designed for multi-season deep buried SDI applications, for installations of more than 15 years.

### Anti-Siphon (AS) and Non-Drain (ND)

The Anti-Siphon (AS) system is a specially designed mechanism that prevents suction of dirt and impurities into the emitter. The AS feature enables Cu Triton PC™ to be installed underground (SDI), perfectly maintaining its irrigation characteristics and its multi-year durability.

With the Non-Drain system of Cu Triton PC™, the dripline remains full of water during irrigation intervals, ensuring immediate and uniform irrigation along the dripline. 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.

### Emitter Characteristics

Cu compound infused emitter that prevents root intrusion and inhibits the growth of algae, bacteria, and fungi development.

Available in two flow rates 2 and 4 l/h.

Suitable for driplines with 16mm diameter.

The recommended wall thickness is 0,65 to 1,20 mm (25 - 47 mil)

Manufactured from the finest raw materials that provide durability and long-lasting performance.

Wide and accurate water passages along the labyrinth.

Special labyrinth design that ensures high turbulent flow of the water.

Continuous self cleaning mechanism ensures non-clogging uninterrupted operation.

High UV resistance.

Resistant to all nutrients used in agriculture.

Injected molded emitters with excellent

Coefficient of Variation (CV), less than 5%.

Excellent for effluent water reuse.

Wide pressure compensation range.

### SDI Applications

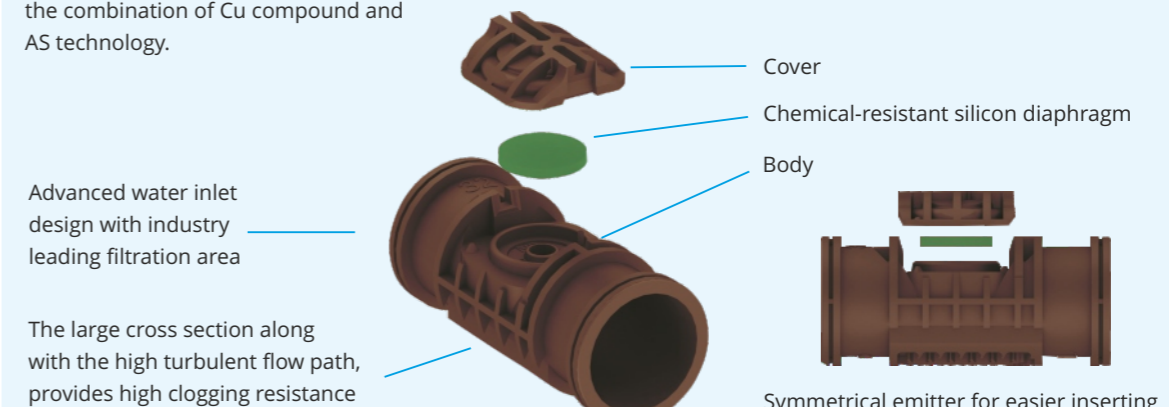
Suitable for deep buried multi seasonal SDI installations, for more than 15 years depending on dripline thickness.

### Cu Triton PC™ Design Characteristics

#### Cu Compound and AS technology

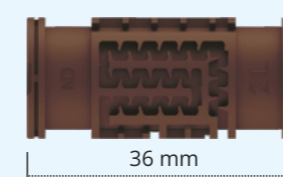
The most durable PC emitter, provides high accuracy and clog-free performance with the combination of Cu compound and AS technology.

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

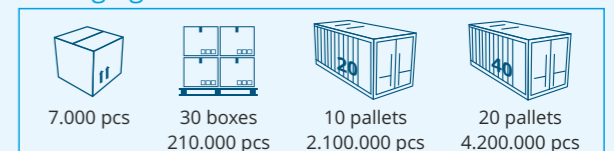


Symmetrical emitter for easier inserting and drilling. Along with its unique design, it can achieve the highest production speed in the industry

Actual Size



Packaging

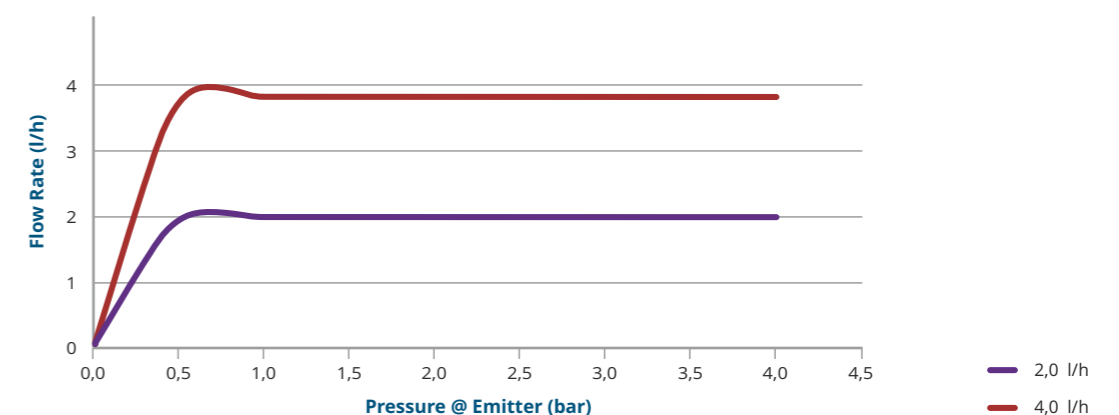


### Cu Triton PC™ Emitter Specifications

Nominal Flow Rate (l/h)	Constant k (bar)	Exponent (x)	Water Passage Width x Depth x Length (mm)	Filtration Area (mm <sup>2</sup> )	Recommended Filtration (mesh/micron)
2,0	2,0	0,0	1,10 x 1,20 x 62,7	14,00	120/130
4,0	3,8	0,0	1,30 x 1,20 x 51,9	14,00	120/130

Pressure range: 0,5 - 4,0 bar

### Cu Triton PC™ Emitter Flow Curves





**Showroom:**

10 Andrea Araouzou str.,  
3056 Limassol, Cyprus

**Head Office:**

12 Andrea Araouzou str.,  
3056 Limassol, Cyprus

**Factory:**

9 Fytion str.,  
3056 Limassol, Cyprus

T: + 357 25 399962

F: +357 25 399963

[aas@aasystems.eu](mailto:aas@aasystems.eu)