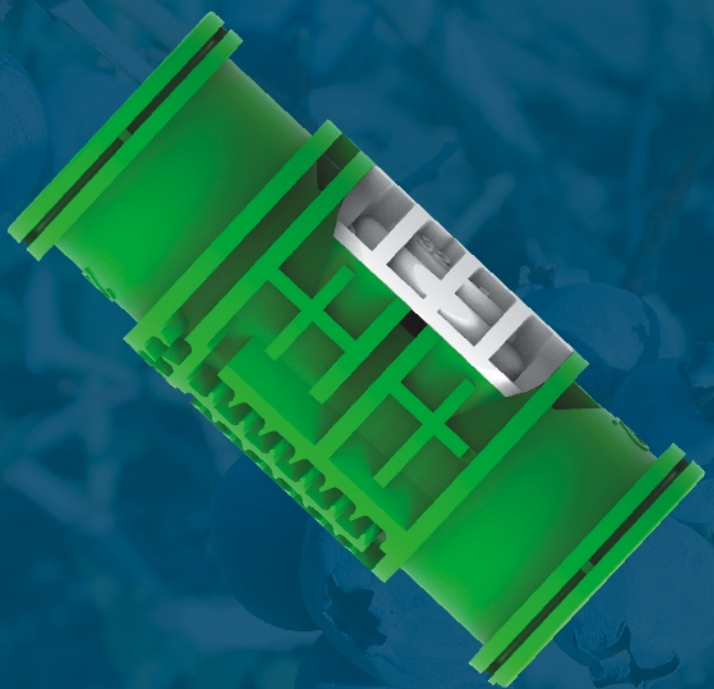
Advanced
Automation
Systems

Emitter
Solutions

QE
Quality
Excellence



Triton PC

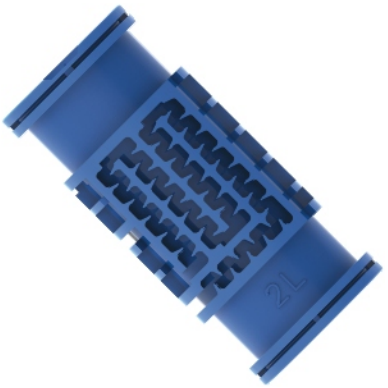
Cylindrical PC Emitter

The most durable Pressure Compensating emitter, designed for steep and rocky terrain, permanent crops with long laterals, on surface and subsurface applications

Emitter Solutions

Triton PC

Cylindrical PC Emitter



The most durable Pressure Compensating emitter, designed for steep and rocky terrain, permanent crops with long laterals, on surface and subsurface applications.

Pressure Compensating (PC)

Triton PC emitters incorporate a silicone membrane which enables the delivery of precise and equal amounts of water over a broad pressure range. Triton PC emitters are designed for precision irrigation needs, hard rocky terrain and inclined topography.

Drain (D), Non-Drain (ND) and Anti-Siphon (AS) Options

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

With the Non-Drain system of 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 opens at 0,30 bar and closes at 0,18 bar.

Emitter Characteristics

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).

Excellent for effluent water reuse.

Wide pressure compensation range.

Product Applications

Precision irrigation

Uneven terrain

Row crops

Orchards

Landscaping

Gardening

Pulse irrigation

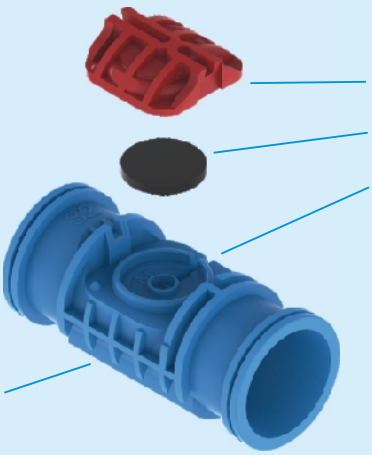
Suitable for both on surface and subsurface installations

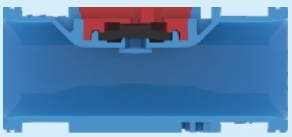
Triton PC Design Characteristics

Robust Design

Robust design with no holes or cutouts for housing the silicone membrane, provides perfect symmetry and enables better inserting and drilling at high speed

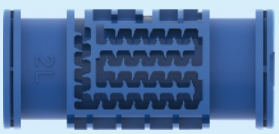
Triton PC emitters are tested from both CIT and Irstea institutes and achieved the highest ranking for CV, emission uniformity, flow accuracy and clogging resistance





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

Actual Size



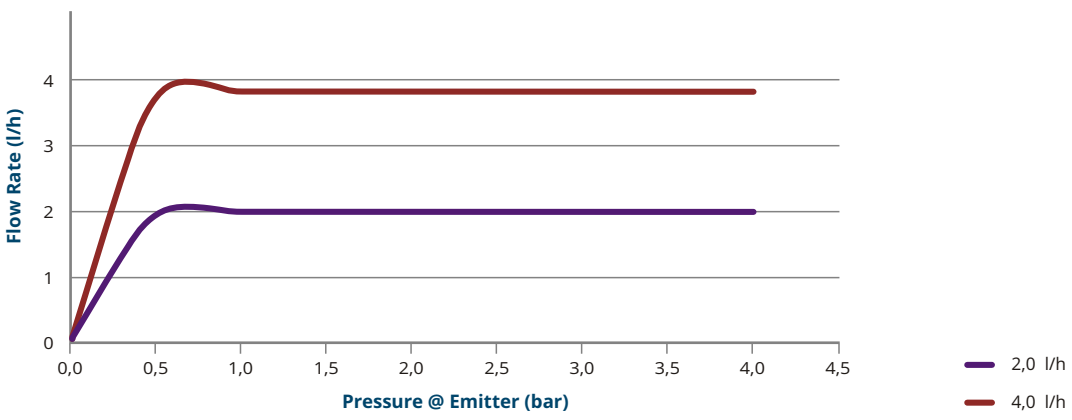
Packaging

Triton PC Emitter Specifications

Nominal Flow Rate (l/h)	Constant k (bar)	Exponent (x)	Coefficient of Variation CV (%)	Water Passage Width x Depth x Length (mm)	Filtration Area (mm^2)	Recommended Filtration (mesh/micron)
2,0	2,0	0,0	3,1	1,10 x 1,20 x 62,7	14,00	120/130
4,0	3,8	0,0	2,5	1,30 x 1,20 x 51,9	14,00	120/130

Pressure range: 0,5 - 4,0 bar
Opening pressure: 0,30 bar
Closing pressure: 0,18 bar

Triton PC Emitter Flow Curves



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