

An aerial photograph of a vineyard, showing numerous rows of grapevines that curve across a hillside. The vines are lush green, and the rows are separated by narrow paths. The overall scene is a well-maintained agricultural landscape.

Triton PC Line

Cylindrical Pressure
Compensating Dripline

Triton PC Line Specifications

Triton PC Line is produced with the highest quality raw material, in state-of-the-art production lines by integrating the most advanced emitter of the industry. Provides extreme tensile strength, since it is produced with high-quality resins. Offers excellent performance on the field due to the flawlessly designed, injected molded Triton PC emitter with very low CV. The unique design of Triton PC emitter, provides high clogging resistance and offers the highest emission uniformity. The combination of those elements translates to superior quality, evenly grown crops and increased overall yield which leads to higher income for every farmer worldwide. Triton PC Line is the most durable Pressure Compensating dripline, designed for steep and rocky terrain, permanent crops with long laterals, for both surface and subsurface applications.

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

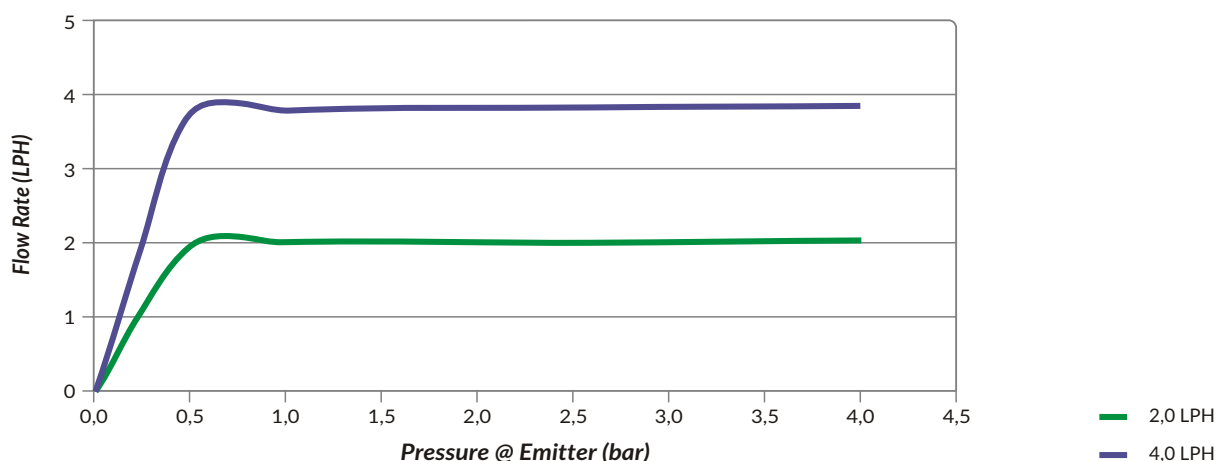
The anti-siphon (AS) system both in D and ND versions is a specially designed mechanism that prevents suction of dirt and impurities into the emitter. The AS feature enables Triton PC Line to be installed underground (SDI), perfectly maintaining its irrigation characteristics and its multiyear durability. With the Non-drain system, the dripline remains full of water during irrigation intervals, ensuring immediate and uniform irrigation along the dripline. Moreover, 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.



Triton PC Emitter Specifications

Nominal Flow Rate (lph)	Constant (k)	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	0,01	3,1	1,10 x 1,20 x 62,7	14,00	120/130
4,0	3,8	0,01	2,5	1,30 x 1,20 x 51,9	14,00	120/130

Triton PC Emitter Flow Curves



Triton PC Line

Cylindrical Pressure Compensating Dripline

Ideal Applications

- Precision irrigation
- Uneven terrain
- Row crops
- Orchards
- Landscaping
- Vegetables
- Gardening
- Suitable for both on surface and subsurface installations

Triton PC Line Specifications

Nominal Diameter (mm)	Internal Diameter (mm)	Wall Thickness (mm)	Max. Operating Pressure (bar)	Coil Length (m)	Flow Rate (lph)	Maximum Recommended Length (m) at 3,5 bar for the Following Emitter Spacing						
						15cm	20cm	30cm	50cm	75cm	100cm	120cm
16	13,7	0,9	3,5	400	2,0	71	93	133	206	285	357	410
					4,0	45	58	84	130	181	226	260
		1,0	4,0	400	2,0	71	93	133	206	285	357	410
					4,0	45	58	84	130	181	226	260
		1,1	4,5	400	2,0	71	93	133	206	285	357	410
					4,0	45	58	84	130	181	226	260

Triton PC Line

Cylindrical Pressure Compensating Dripline

Product Characteristics

Available in 16mm external diameter (13,7 internal diameter), with wall thickness of 0,9 / 1,0 and 1,1mm that enables both surface and subsurface installations for multi-seasonal applications

Available in two flow rates 2 lph and 4 lph

Pressure compensating (PC) emitters incorporate a silicone membrane which enables the delivery of precise and equal amounts of water over a broad pressure range

Available in Drain (D), Non-Drain (ND) and Anti Siphon (AS) options for every possible installation both on surface and subsurface

Excellent Coefficient of Variation, lower than similar products due to the excellent emitter design and their production on state-of-the-art injection machines

Advanced water inlet design, increases filtering area and prevents particle insertion in the emitter, thus enhancing the anticlogging performance

Specially designed labyrinth creates high turbulent flow, therefore preventing clogging of the emitter

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



www.gulfdrip.com

