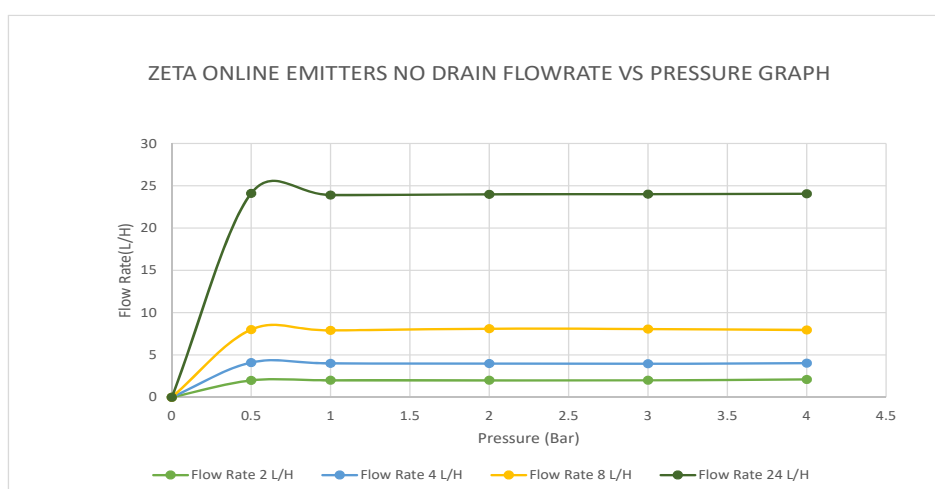


On-Line Emitters

Zeta has two online emitters, the Pressure Compensating (PC) and the Non Pressure Compensating (NPC).

Pressure Compensating (PC)

Fitted with a silicone membrane for precise and uniform water distribution across a wide pressure range, Online PC emitters are tailored to meet the requirements of accurate irrigation. These emitters are suitable for various settings, from household gardens to advanced hydroponic systems. Featuring the Non-Drain function, Online PC emitters maintain a full water pipe during irrigation, ensuring consistent and timely watering along the entire length. By eliminating the need for drainage and refilling, Non-Drain emitters enhance efficiency in pulse irrigation. The Non-Drain function activates when the pressure reaches 0.15 bar. These emitters are constructed using HDPE (High Density Polyethylene) material.



Nominal Flow Rate(L/H)	Constant k(bar) No Drains	Exponent(x)	Water Passage WidthxDepthxLength(mm)	Filtration Area(mm)	Recommended Filtration(mesh/microns)
2	2	0	1.00x1.00x55.4	3.8	130/120
4	3.8	0	1.30x1.10x50.6	3.8	131/120
8	8.4	0	1.50x1.15x46.5	3.8	132/120
24	23.5	0	1.35x1.20x35	3.8	133/120

Non Pressure Compensating (NPC)

Non-pressure compensating online emitters are employed in drip irrigation systems to deliver water precisely to plant roots. Unlike pressure-compensating emitters, which maintain a consistent flow rate despite pressure fluctuations, non-pressure compensating emitters release water at a rate that may vary with changes in pressure.

When using non-pressure compensating online emitters, it's important to carefully design the irrigation system to account for variations in pressure and ensure adequate coverage and uniform water distribution. Additionally, regular maintenance and monitoring are necessary to detect and address any issues such as clogging or uneven watering. Crafted from the same durable HDPE (High Density Polyethylene) material, these emitters ensure longevity and reliability in various agricultural and horticultural settings.



Non Pressure Compensating (NPC)

Description	Flow Rate	
REGULATED NAILED DRIPPER	0-70 L/H	
	0-100 L/H	
ON LINE DRIPPER WITH ADJUSTABLE FLOW	0-150 L/H	
AUTO REGULATED DRIPPER	4 L/H	
	8 L/H	
	12 L/H	

Emitter Characteristics

- Wide range of flow rates: 2 L/H (0.5 G/H), 4 L/H (1 G/H), 8 L/H (2 G/H), and 24 L/H (6 G/H).
- Engineered for fitting into pipes ranging from 12 mm to 32 mm in diameter and with wall thicknesses from 0.9 mm (0.035") to 1.27 mm (0.05").
- Extensive pressure compensation capability.
- Equipped with a cross-shaped water inlet.
- Provides broad and precise water passages within the labyrinth.
- Incorporates a unique labyrinth design ensuring highly turbulent water flow.
- Self-cleaning mechanism prevents clogging, ensuring uninterrupted emitter operation.
- Demonstrates high UV resistance and resilience to common agricultural nutrients. The injected emitter maintains a very low Coefficient of Variation (CV) of less than 5%.
- Can be manually installed precisely where needed, with the option to increase the number of emitters to enhance water supply for tree growth requirements.
- The design allows for the installation of manifold outlets with multiple outputs.
- Features a single outlet type suitable for 3 mm internal diameter micro-tubes and press-fit nipple connectors.

Product Applications

- Greenhouses and nurseries
- Orchards
- Landscaping
- Gardening
- Hydroponics
- Soilless culture
- Pulse irrigation