TORO Ag Irrigation

NGE® AL

Anti-Leakage Pressure Compensating Emitter

Application:

The NGE® AL pressure compensating emitter is ideal for greenhouses and nursery applications, or any situation that requires the precise irrigation of containers or individual plants.
Water is applied uniformly from each emitter outlet, and the unique anti-leakage feature eliminates drainage caused by differences of elevation.

Features and Benefits:

- Acid resistant high-grade material construction provides the emitter with superior weathering characteristics and protection against chemical degradation (down to pH2).
- The unique emitter design and pressure compensating diaphragm allows:
  - The emitter to remain closed until an opening pressure of 0,9 bar is achieved. As a result start-up time is kept to a minimum, and uniformity is maximized.
  - Self-flushing during operation to facilitate cleaning.
  - The emitter shut-off at 0,24 to 0,34 bar depending on emitter flow rate. This prevents complete drainage of system pipes and facilitates efficient system pulsing. Quicker system start-up also results in a reduction of chemical and fertilizer waste.
  - The emitter to close upon system shut down, thus inhibiting back siphoning and reducing the risk of the emitter clogging.
- The semi-circle inlet filters and large turbulent flow path design provide clogging resistance by preventing large debris from entering the emitter, and by allowing smaller particles to exit the flowpath during the self-flushing cycle.
- The exceptional emitter design allows uniform flow rates from 0,9 to 4,1 bar. This wide range allows use in demanding applications, even in nurseries and greenhouses where exceptional precision is required. The pressure compensating feature, along with a manufacturing CV≤ 3% or less makes the NGE® one of the highest performing emitters available.
- Available in a 3mm barbed (-3) and Male Adapter (-MA) outlet configuration allowing use with single or multi-outlet spider devices.
- A-Class Dripper in conformity with ISO 9260 norms

Blue 2,0 l/h

Green 3,0 l/h

Grey 4,0 l/h

Red 8,0 l/h

<u>NGE® AL emitters are available with 2 different outlets</u>

- **Male Adapter (-MA)** for multi-outlet spider.

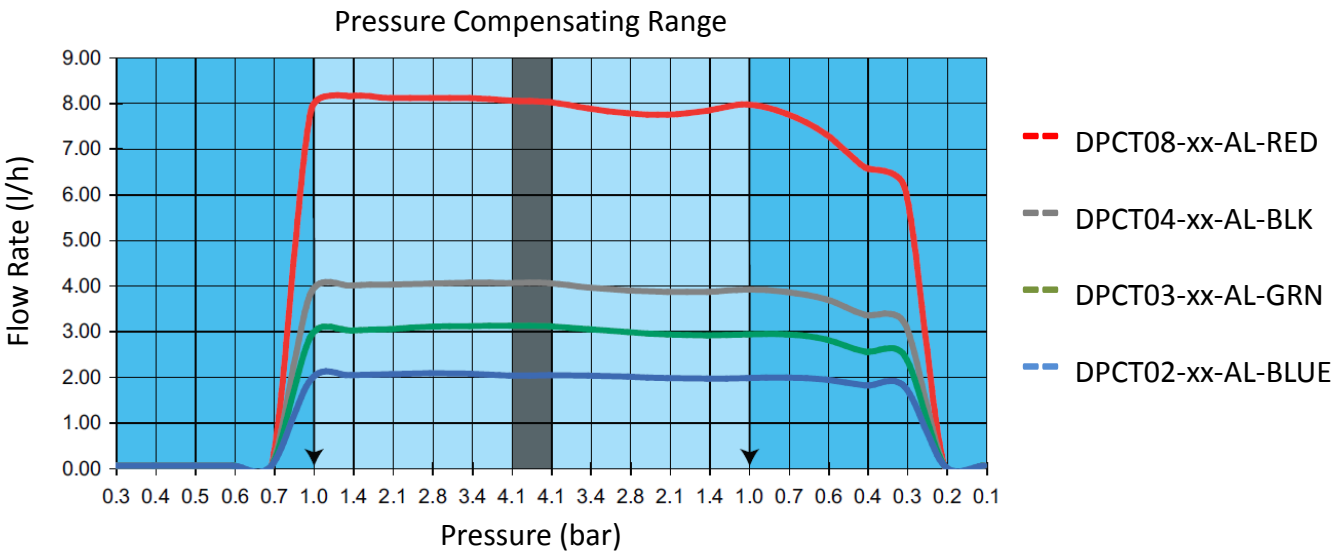
- **NEW** **3mm barbed adapter (-3)** for 3x5mm micro-tubes

TORO Ag Irrigation

NGE® AL

Anti-Leakage Pressure Compensating Emitter

Emitter Discharge Rate vs. Pressure



3

MA

NGE® AL Emitter codification

DPCT 08 -MA -AL -RED

- DPCT: NGE® Codification
- 08: Flow rate (l/h)
- -MA: MA Male Adapter; 3 3mm Barbed Adapter
- -AL: AL= Anti-Leakage
- -RED: Color (Base)

NGE® AL Specifications		DPCT02	DPCT03	DPCT04	DPCT08
Nominal Flow Rate	l/h	2,0	3,0	4,0	8,0
Pressure Compensating Range	bar	From 0,9 to 4,1			
Closing Pressure	bar	0,24	0,28	0,34	0,34
Coefficient of Variation (CV)		≤ 3%			
Minimum Filtration Requirement		140 mesh (105 micron)			
Color / Color Code		Blue / BLUE	Green / GRN	Grey / BLK	Red / RED

TORO Ag Irrigation

NGE® SF

Self-Flushing Pressure Compensating Emitter

Application:

The NGE® SF is a precise, pressure compensating emitter engineered for use in vineyards, orchards and landscape applications. The emitter's unique design provides flushing during operation and shutdown and prevents back-siphonage, providing added protection against clogging.

Features and Benefits:

- Acid resistant high-grade material construction provides the emitter with superior weathering characteristics and protection against chemical degradation (down to pH2).
- The unique emitter design and pressure compensating diaphragm allows:
  - Self-flushing during operation to facilitate cleaning.
  - The emitter to close upon system shut down, thus inhibiting back siphoning and reducing the risk of the emitter clogging.
- The semi-circle inlet filters and large turbulent flow path design provide clogging resistance by preventing large debris from entering the emitter, and by allowing smaller particles to exit the flowpath during the self-flushing cycle.
- The exceptional emitter design allows uniform flow rates from 0,6 to 4,1 bar. This wide pressure range makes the NGE® SF emitter ideal for use in difficult topographical conditions. With a CV≤ 3% the NGE® is one of the highest performing emitters available.
- Available in a 3mm barbed (-3), Male Adapter (-MA) and Dust Cap (-DC) outlet configuration allowing use with spider devices or in open field applications.
- A-Class Dripper in conformity with ISO 9260 norms

Blue 2,0 l/h

Green 3,0 l/h

Black 4,0 l/h

Red 8,0 l/h

<u>NGE® SF emitters are available with 3 different outlets</u>

- **Dust Cap (-DC)** for open filed applications

- **Male Adapter (-MA)** for multi-outlet spiders.

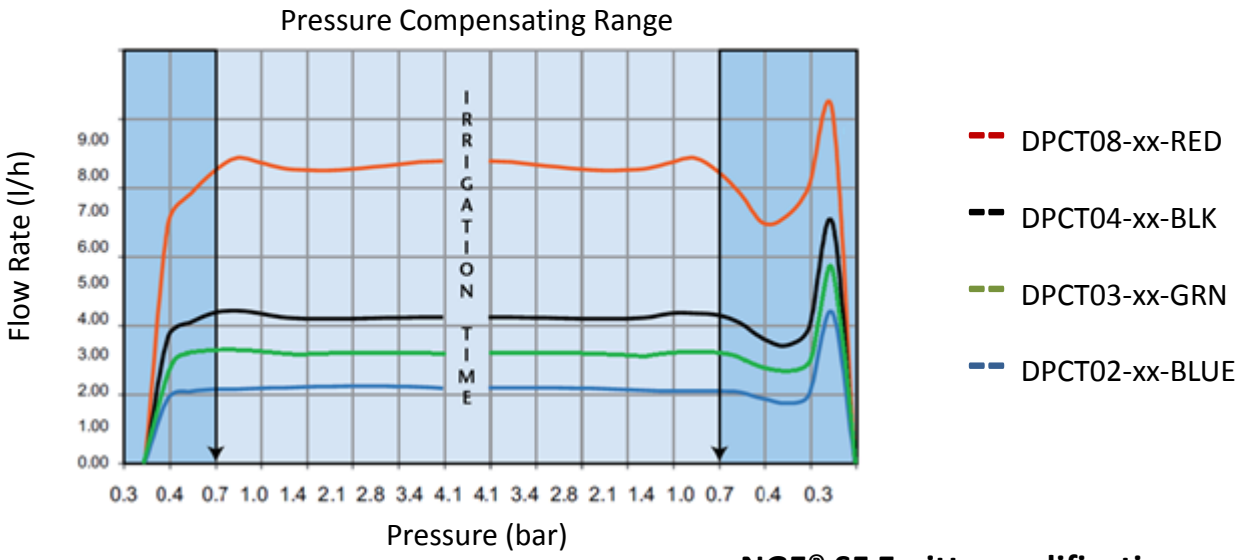
- **NEW 3mm barbed adapter (-3)** for 3x5mm micro-tubes

TORO Ag Irrigation

NGE® SF

Self-Flushing Pressure Compensating Emitter

Emitter Discharge Rate vs. Pressure



DC **3** **MA**

NGE® SF Emitter codification

DPCT 02 -DC -BLUE

- DPCT — NGE® Codification
- 02 — Flow rate (l/h)
- -DC — DC Dust Cup; 3 Barbed Adapter; MA Male Adapter
- -BLUE — Color (Base)

NGE® SF Specifications		DPCT02	DPCT03	DPCT04	DPCT08
Nominal Flow Rate	l/h	2,0	3,0	4,0	8,0
Pressure Compensating Range	bar	From 0,6 to 4,1			
Coefficient of Variation (CV)		≤ 3%			
Minimum Filtration Requirement		120 mesh (125 micron)			
Color / Color Code		Blue / BLUE	Green / GRN	Black / BLK	Red / RED