

TORO®**Count on it.**

NGE® AL

Anti-Drain Pressure Compensating Emitter

Micro-Irrigation



Application:

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

Features and Benefits:

- Acid resistant high-grade material construction provides the emitter with superior weathering characteristics and protection against chemical degradation.
- The unique emitter design and pressure compensating diaphragm allows:
 - The emitter to remain closed until an opening pressure of 13 psi (0.9 Bars) 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 to shut-off at 3.0 to 5.0 psi (0.24 to 0.34 Bar) depending on the 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 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 13 to 60 psi (.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 of 3% or less makes the NGE one of the highest performing emitters available.
- Also available in a male adapter (-MA) outlet configuration with an internal bug shield, allowing use with 1/4" (4mm) leader tubes or Black Spider multi-outlet devices.
- Available in four flow rates:

DPC02-MA-AL-Blue	0.5 gph (2.0 lph)
DPC03-MA-AL-Green	0.8 gph (3.0 lph)
DPC04-MA-AL-Gray	1.0 gph (4.0 lph)
DPC08-MA-AL-Red	2.1 gph (8.0 lph)

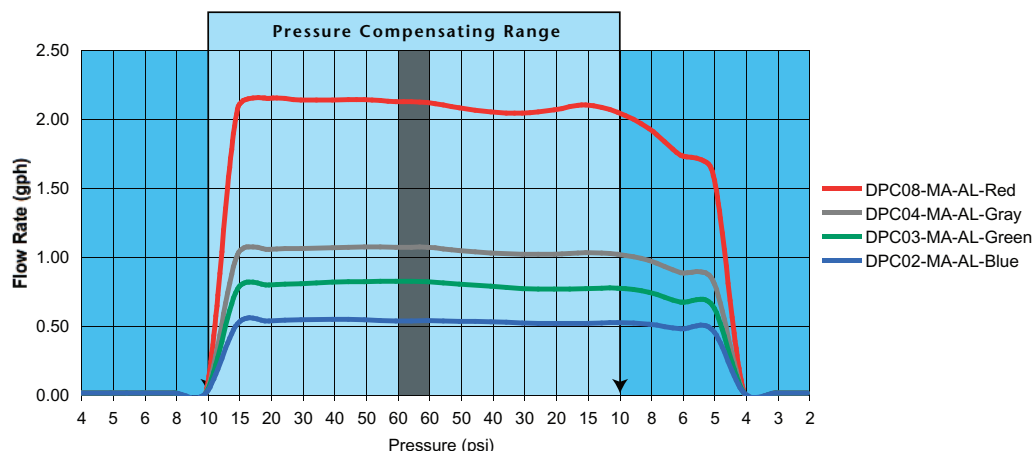
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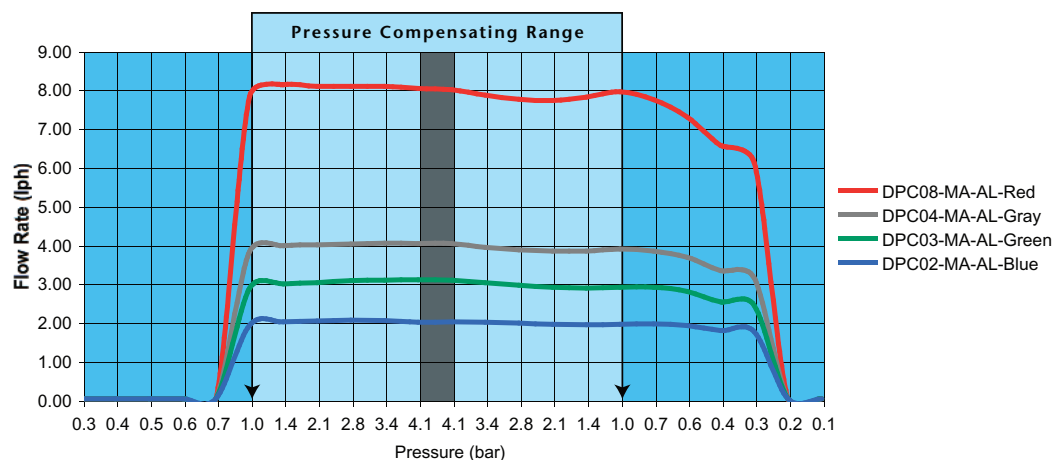
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Anti-Drain Pressure Compensating Emitter

Emitter Discharge Rate vs. Pressure, English



Emitter Discharge Rate vs. Pressure, Metric



Specifications

	DPC02	DPC03	DPC04	DPC08
Nominal Flow Rate (Q)				
gpm	0.5	0.8	1.0	2.1
lph	2.0	3.0	4.0	8.0
Recommended Pressure Range (P)				
psi	13 to 60 psi			
Bar	0.9 to 4.1 Bar			
Closing Pressure				
psi	3.5	4	4.5	5
Bar	0.24	0.28	0.34	0.34
Emitter Exponent (x)	0.000	0.000	0.000	0.000
Coefficient of Variation (Cv)	≤ 3%			
Minimum Filtration Requirement	140 Mesh (105 Micron)			
Color	Light Blue	Light Green	Gray	Light Red

Understanding Part Numbers

Example: DPC04-MA-AL-Gray

DPC 04 -MA AL -Gray
 Model Flow Rate (lph) Outlet Configuration Color (Base)
 AL = Anti Drain
 MA = Male Adapter
 DC = Dust Cap

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