

Application

- Vineyards
- Orchards
- Row Crops

One piece in-line drip tube, tough and economical, designed for all permanent or row crop applications.

- High clog resistance due to wide turbulent passage way and raised inlet filter.
- Extremely accurate flow rate due to high quality control.
- Self-flushing in-built filter for added protection.
- Two directly opposed outlet holes to minimise exit hole clogging.
- Substantial installation savings as there is no hole punching, lost emitters or handling damage.
- Available in factory spaced intervals or custom made to your spacing requirements.
- Suitable for recovery and re-use in row crops.
- Two nominal diameters : 16, 20mm

Emitter Flow Equation

$Q = k_p P^x$
 Q = Flow in Lph
 P = Pressure in metres
 x = emitter exponent
 k_p = emitter constant

Emitter Barb Pressure Loss Equation

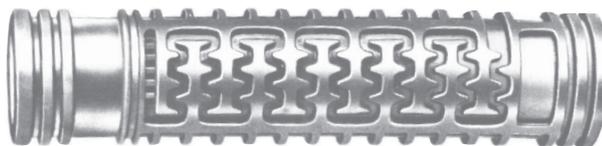
$H_b = \frac{k_b v^2}{2g}$
 g = gravitation acceleration m/sec²
 v = velocity (m/sec)
 H_b = emitter pressure loss (m)



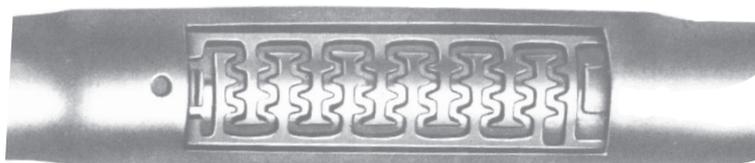
The emitter design creates turbulent flow which ensures maximum blockage resistance. The emitter is fused to the inside of the tube as it is extruded in the manufacturing process and provides substantial savings on installation costs.

Clear Tube shown for demonstration purposes only.

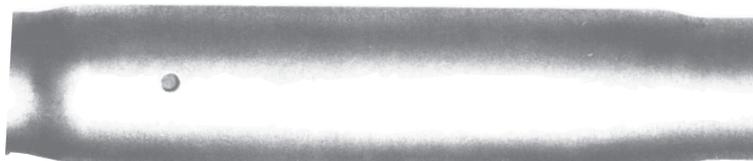
The Drip-In™ Emitter



inserted in the tube . . .



becomes a permanent part of it.



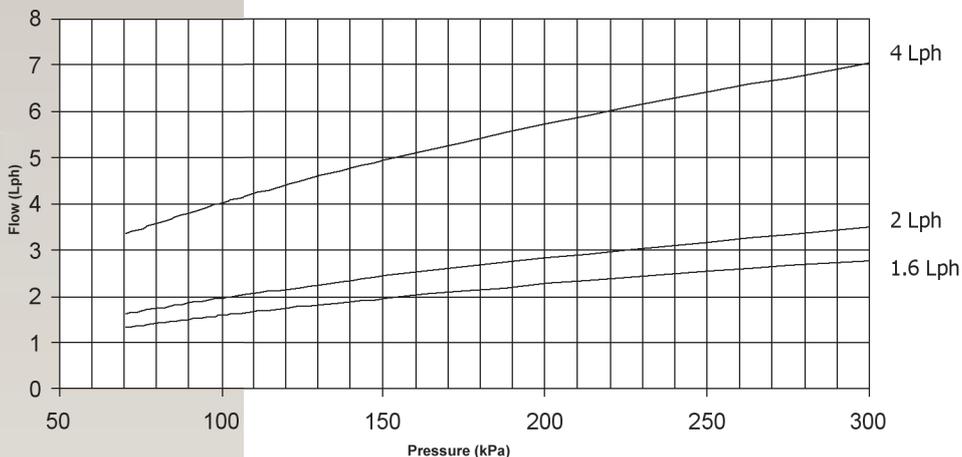
For further information on Drip-In™ and its applications refer to our web site www.toro.com.au

16mm Drip-In Classic Emitter			
Nom. Flow (Lph)	1.6	2.0	4.0
Exponent, x	0.504	0.52	0.507
Constant, k_p	0.4997	0.5924	1.245
Barb factor, k_b	0.9	0.9	0.9

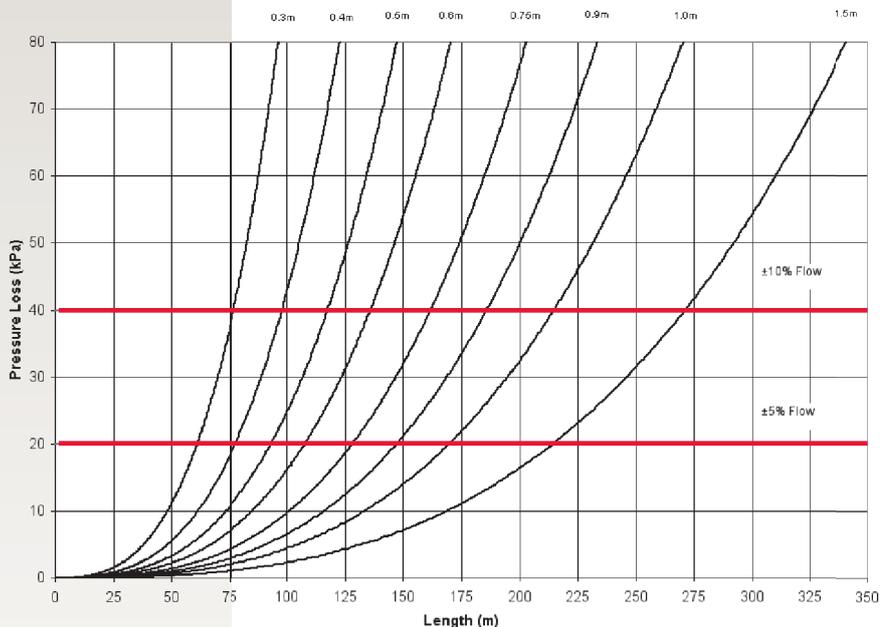
20mm Drip-In Classic Emitter				
Nom. Flow Lph	1.6	2.0	2.5	4.0
Exponent, x	0.52	0.507	0.502	0.529
Constant, k_p	0.4527	0.6114	0.7423	1.0916
Barb factor, k_b	0.35	0.35	0.35	0.35

Tube Dimensions				
Nom. Diam (mm)	ID (mm)	OD (mm)	Coil Length (m)	Max™ Pressure (kPa)
16	14	16	450	350
20	18	20	300	350

Emitter Flow vs Pressure

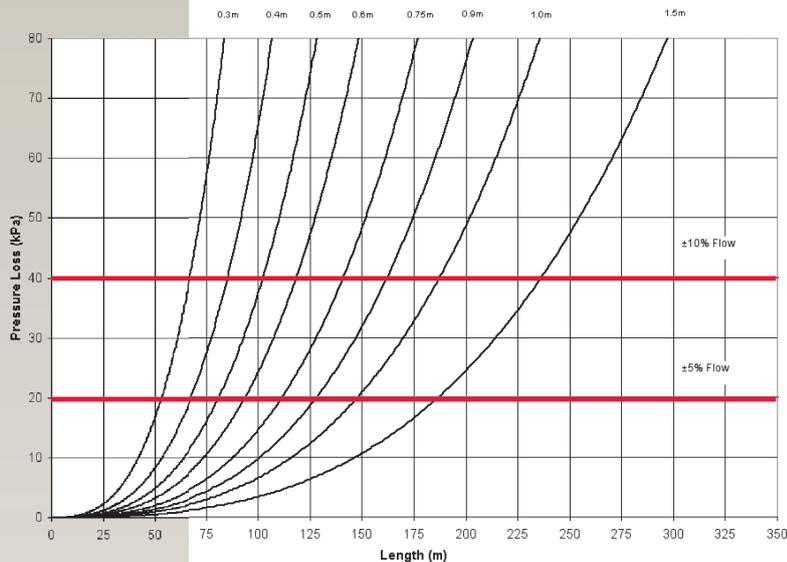


16mm Drip-In Classic 1.6 L/h Run Length (m) vs Pressure Loss (kPa)

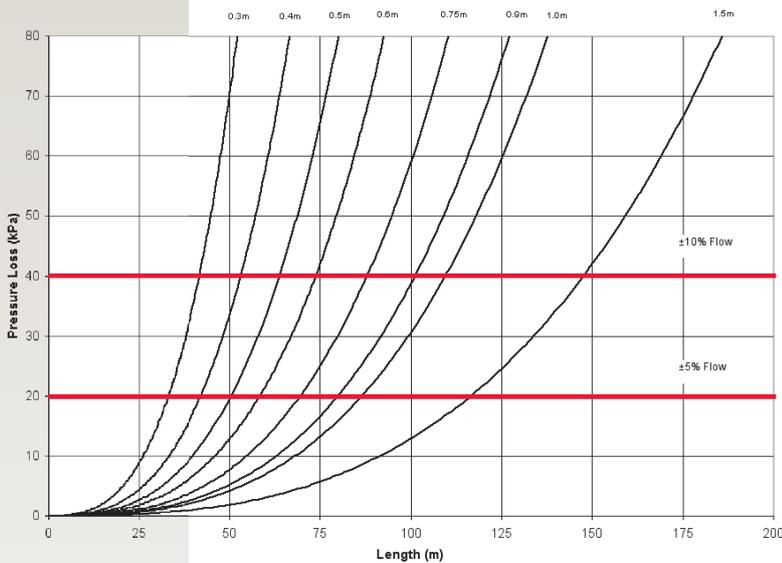


±10% Flow variation on flat ground
 ±5% Flow variation on flat ground

16mm Drip-In Classic 2.0 L/h Run Length (m) vs Pressure Loss (kPa)



16mm Drip-In Classic 4.0 L/h Run Length (m) vs Pressure Loss (kPa)



±10% Flow variation on flat ground
±5% Flow variation on flat ground

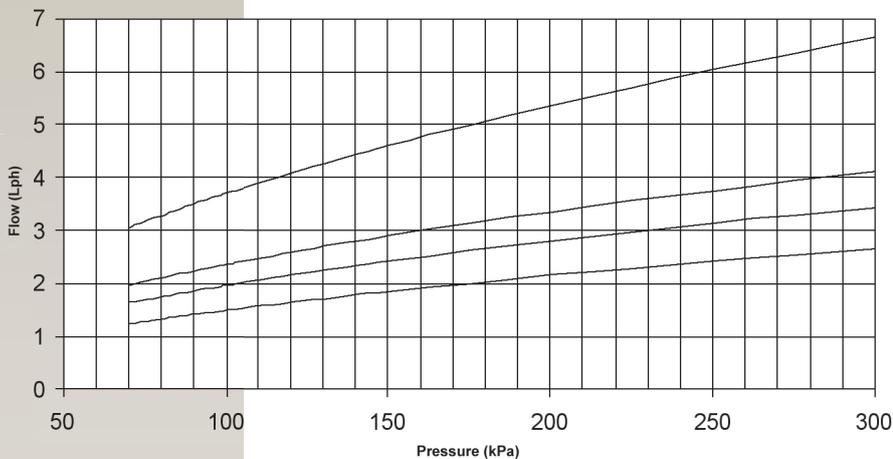
ORDERING INFORMATION

16 mm Drip-In Classic Tubing - Coil length 450 metres

Flow rate	0.3 m	0.4 m	0.5 m	0.6 m	0.75 m	0.9 m	1.0 m	1.5 m
1.6 L/h	DDN1616030	DDN1616040	DDN1616050	DDN1616060	DDN1616075	DDN1616090	DDN1616100	DDN1616150
2.0 L/h	1015483	1015484	1015485	1015486	1015487	1015489	1015490	1015492
4.0 L/h	1015503	1015504	1015505	1015506	1015507	1015509	1015510	1015512

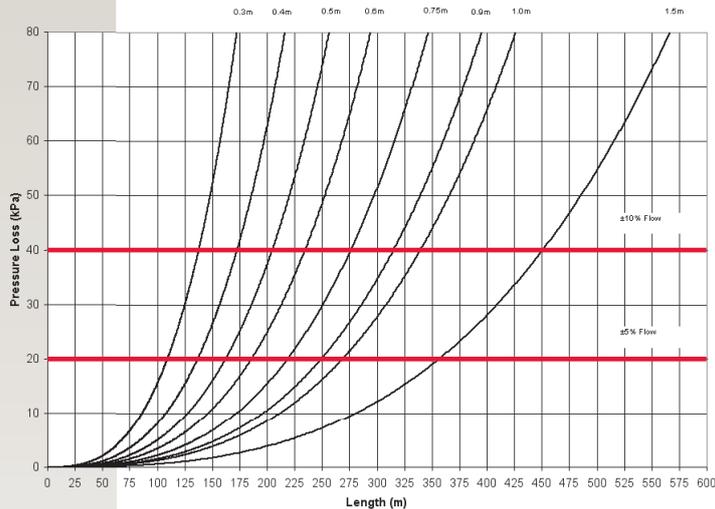
* Customised spacings are available on request.

Emitter Flow vs Pressure

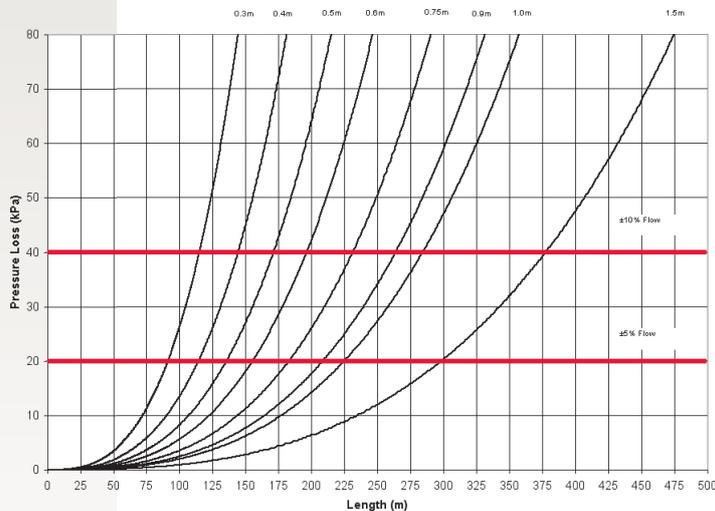


4 Lph
2.5 Lph
2 Lph
1.6 Lph

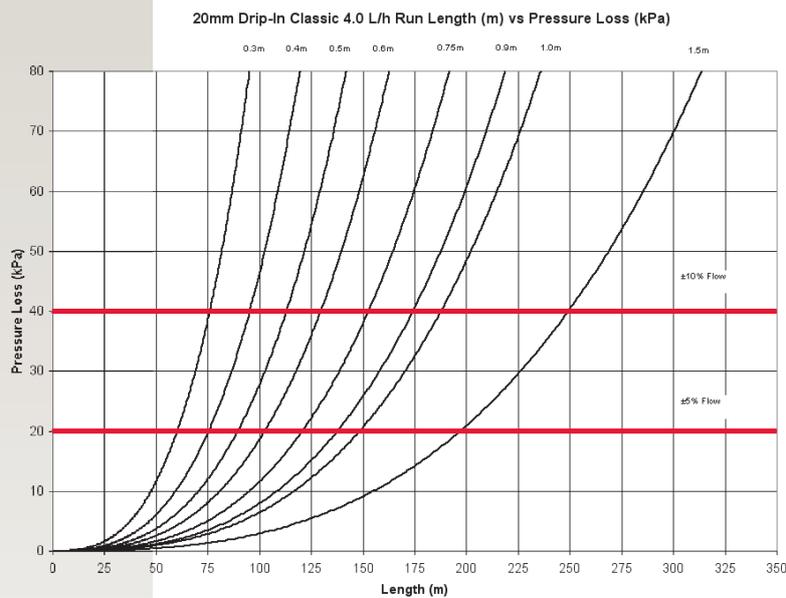
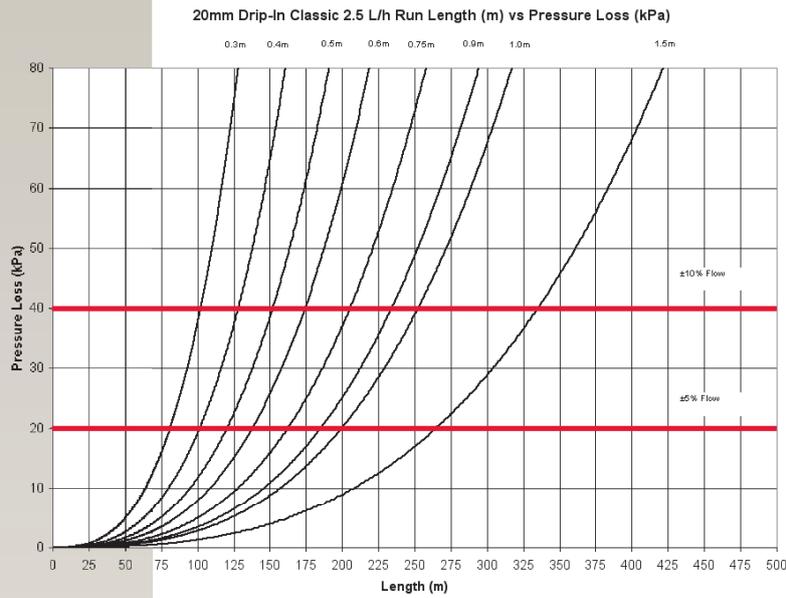
20mm Drip-In Classic 1.6 L/h Run Length (m) vs Pressure Loss (kPa)



20mm Drip-In Classic 2.0 L/h Run Length (m) vs Pressure Loss (kPa)



±10% Flow variation on flat ground
±5% Flow variation on flat ground



±10% Flow variation on flat ground
±5% Flow variation on flat ground

ORDERING INFORMATION

20mm Drip In Classic Tubing - Coil length 300 metres

Flow rate	0.3 m	0.4 m	0.5 m	0.6 m	0.75 m	0.9 m	1.0 m	1.5 m
1.6 L/h	DDN2016030	DDN2016040	DDN2016050	DDN2016060	DDN2016075	DDN2016090	DDN2016100	DDN2016150
2.0 L/h	1015551	1015785	1015786	1015787	1015788	1015789	1015790	10
2.5 L/h	1015543	1015544	1015545	1015546	1015547	1015549	1015550	1015552
4.0 L/h	1015555	1015556	1015557	1015558	1015559	1015548	1015560	1015561

* Customised spacings are available on request.