

Putting Water Where it Counts!®



Vol.
25

Irrigation Equipment Metric Catalogue

antelco.com

About Antelco

Antelco Group of Companies

Antelco promotes a “quality” culture throughout the company, reflected in all facets of the organisation, including customer service, sales and marketing, ordering, manufacture, and delivery. This culture has seen the Antelco Group expand, pairing with companies that share its drive for quality.

The Antelco Group includes Lincoln Plastics, a leading toolmaking and plastic injection moulding company based in Adelaide, South Australia, and Dawn Industries, worldwide leaders in the design, manufacture, and distribution of high performance water system components, tools, and replacement products for system professionals.

Micro Irrigation Experts

Antelco produces quality irrigation products for home owners, landscapers and agricultural markets to promote responsible water use worldwide.

Experienced engineers, product designers and marketers, with a wealth of industry knowledge, create quality and cost-effective micro irrigation products. All products undergo rigorous field testing and quality control measures so that any faults or imperfections can be engineered out, resulting in a fault-free, quality product worthy of the Antelco name.

Quality, Safety, Environmental

Antelco is dedicated to adhering to internationally recognised industry standards for quality, safety, and environmental practices.



Quality performance is one of the cornerstones of Antelco's culture, extending to the company's dedication to quality, customer satisfaction, and continuous improvement.

With ISO 9001:2015 Quality Management System certification, Antelco demonstrates an unwavering commitment to delivering products and services of the highest quality standards, thereby achieving its strategic objectives and delivering value to stakeholders.



Antelco is committed to ensuring a safe and healthy workplace for all. Our achievement of ISO 45001:2018 Occupational Health and Safety Management System certification underscores

our diligence to implementing rigorous safety management practices and adhering to the highest standards of occupational health and safety. It showcases our firm dedication to prioritising the wellbeing of our employees and fostering a safer working environment.



Preserving the planet for future generations is a fundamental commitment of our company. The ISO 14001:2015 Environmental Management System certification serves as

a testament to our dedication to environmental stewardship and sustainability. It underscores Antelco's steadfast commitment to minimising our environmental footprint and upholding environmental responsibility.

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Antelco Irrigation



Antelco

Visit our website

For product updates, installation guides and videos, and general irrigation information.

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Putting Water Where it Counts!®

Shrubbler® 360° & 180° Adjustable Flow

The original Shrubbler® with flow adjustment. Flow and coverage can be altered by rotating the click indexed cap.

Features

- Fingertip flow control with shut-off option.
- Spike models anchor Shrubbler® at the plant.
- Spike models suit 4 mm ID micro tube.
- Barb model for direct attachment to micro supply tubing.
- 4 mm threaded model for installation into Rigid Risers, Asta® Stake Adaptors and Micro Stakes.
- 1/2" threaded model for riser pipe installations.



Applications

Pots, tubs, landscaped gardens and nurseries. Ideal for hanging baskets.
In-Line Spike model suitable for planter boxes.



Shrubbler® Spike
Inlet 4 mm w/
Break Off Adaptor



Shrubbler®
Barb 4 mm



Shrubbler®
Thread 4 mm



Shrubbler®
Thread 1/2"
Female



Scan to
see how
it works



NEW

Easily install
the Shrubbler®
Barb 4 mm
into lateral
with the
DripMate® Tool

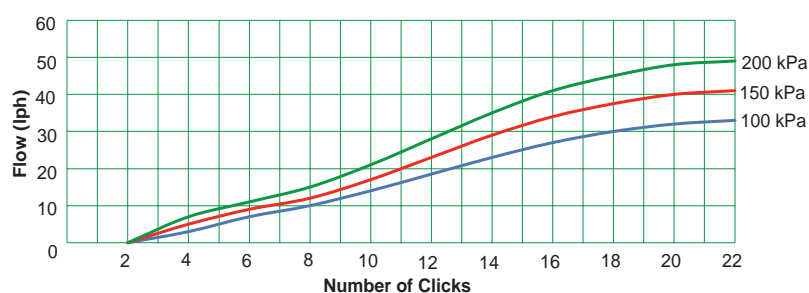
* Refer
to page 74
for ordering
information.

Shrubbler® In-Line Installation



Performance Chart - Fully open (approx. 22 clicks)

Pattern		360° ✱	180° ✱
Pressure (kPa)	Flow (lph)	Diameter (m)	Radius (m)
100	30	0.4	0.4
150	37	0.6	0.5
200	44	0.9	0.6

Flow Rate 360° & 180°**Ordering Information - Shrubbler® 360°**

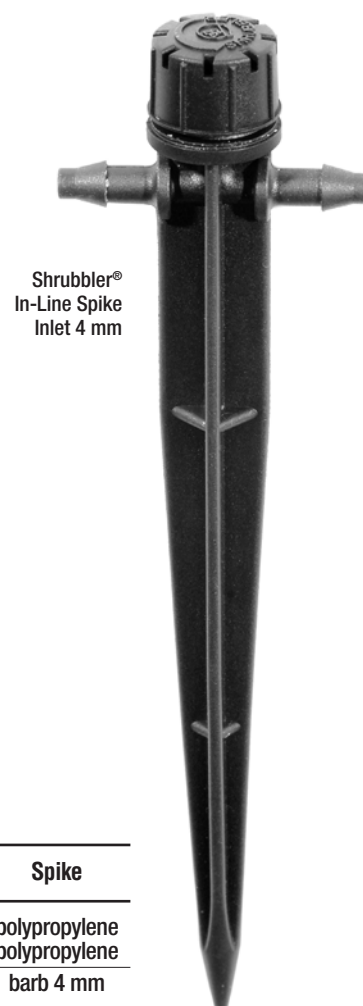
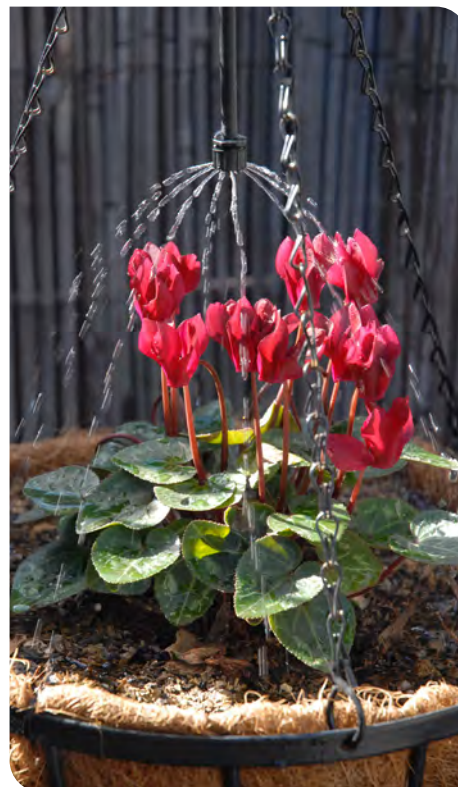
Base type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Barb 4 mm	31445	100	65	11.5
Thread 4 mm	31415	100	65	14.0
Thread 1/2" FNPT	31425	25	70	8.3
Spike	31495	25	40	6.3
In-Line Spike	30995	25	40	6.3

Ordering Information - Shrubbler® 180°

Base type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Barb 4 mm	31245	100	65	11.5
Thread 4 mm	31215	100	65	14.0
Thread 1/2" FNPT	31225	25	70	8.3
Spike	31295	25	40	6.3

Specifications

	Barb	Thread	Thread 1/2"	Spike
UV STABILISED MATERIAL	polypropylene	acetal	polypropylene	polypropylene
BASE/CONNECTION TYPE: INLET	barb 4 mm	thread 4 mm 10-32 UNF	thread 1/2" FNPT	barb 4 mm



PotStream® Adjustable Flow

The PotStream® is a side mounted watering solution for pot plants and containers. The adjustable gentle stream pattern minimises soil erosion and the variable flow rate and pattern radius allows for use in various pot sizes.

Features

- Variable flow rate and pattern size suits pot diameters of 200 mm and upwards.
- Flat stake slides easily inside pot wall.
- Suits pot wall thickness up to 40 mm.
- Side mounted installation for neat location of the supply tube.
- Combine with Tidy-Bow™ Clip On Elbow for neat installations.
- Low application rate and gentle stream pattern.
- Easily adjustable knob for varying spray patterns.
- Available as standard PotStream® or pre-assembled with 600 mm tube and self piercing adaptor.



Scan to
see how
it works

Applications

Potted plants, planter boxes and containers.

Accessories: Tidy-Bow™ Clip On Elbow



PotStream®
Assembled w/
600 mm Tube
& self piercing
adaptor

Tidy-Bow™
Clip On Elbow

Performance Chart

Pressure (kPa)	Flow (lph)	Radius (mm)
50	0 - 16	0 - 235
100	0 - 22	0 - 245
150	0 - 27	0 - 260
200	0 - 31	0 - 280
250	0 - 36	0 - 300
300	0 - 39	0 - 330

Ordering Information - PotStream® Adjustable Flow

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
PotStream® Adjustable Flow	31455	25	20	6.3

Ordering Information - PotStream® Assembly

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
PotStream® Assembly with 600 mm Tube & Adaptor	31465	10	20	7.4

Ordering Information - Tidy-Bow™ Clip On Elbow

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Tidy-Bow™ Clip On Elbow	45345	50	120	10.2

Specifications

Dimensions Assembled	UV Stabilised Material	Colour	Base/Connection Type
HEIGHT 220 mm	STAKE polypropylene	STAKE Black	INLET barb 4.5 mm
WIDTH 22 mm	KNOB HDPE	KNOB Black	
DEPTH 75 mm			
WEIGHT (approx.) 11 g			



PotStream®
Adjustable Flow



Installing PotStream® Drippers



Mini Bubbler Adjustable Flow

High volume output with gentle umbrella pattern. Flow and coverage can be altered by rotating the click indexed cap.

Features

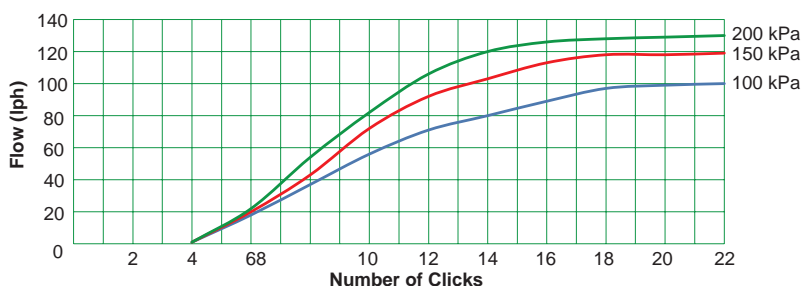
- Fingertip flow control with shut-off option.
- Spike model to anchor Mini Bubbler at the plant.
- Barb model for direct attachment to micro supply tubing.
- 4 mm threaded model for installation into Rigid Risers and Asta® Stakes.
- 1/2" threaded model for riser pipe installations.



Performance Chart - Fully open (approx. 22 clicks)

Pattern		360° ●
Pressure (kPa)	Flow (lph)	Diameter (m)
100	75	0.2
150	95	0.3
200	110	0.5

Flow rate



Ordering Information - Mini Bubbler

Base type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Barb 4 mm	31745	100	65	11.0
Thread 4 mm	31715	100	65	13.8
Thread 1/2" FNPT	31725	25	70	8.2
Spike	31795	25	40	6.3

Specifications

	Barb	Thread	Thread 1/2"	Spike
UV STABILISED MATERIAL	polypropylene	acetal	polypropylene	polypropylene
BASE/CONNECTION TYPE: INLET	barb 4 mm	thread 4 mm 10-32 UNF	thread 1/2" FNPT	barb 4 mm



Scan to see how it works

Applications

Street trees and shrubs. Higher flow rates allow for short watering times.

Midi Drip™ Emitter

4 lph emitter with barb and spike options. For efficient delivery of water to individual plants in pots and gardens.

Features

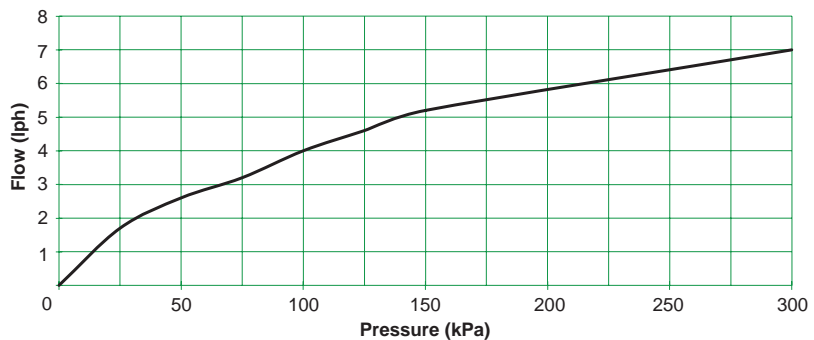
- Take apart for easy inspection and cleaning.
- Barb model for direct insertion into tubing.
- Spike model to anchor Midi Drip™ at the plant.



Performance Chart

Pressure (kPa)	Flow (lph)
50	2.6
75	3.2
100	4.0
125	4.6
150	5.2
MINIMUM FLOW PATH DIMENSION (MM)	0.5 x 0.6

Flow Rate



Ordering Information - Midi Drip™

Base type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Barb 4 mm	30145	100	80	12.7
Spike 4 mm	30195	25	50	6.4

Specifications

Dimensions Assembled	Barb	Spike	UV Stabilised Material	Base/Connection Type
HEIGHT	17 mm	123 mm	BODY polypropylene	INLET barb 4 mm
LENGTH	35 mm	49 mm	KEY polypropylene	
WIDTH	9 mm	9 mm	SPIKE polypropylene	
WEIGHT (approx.)	1.5 g	4.6 g		

Applications

Shrubs and flowers, fruit trees, vines and tomatoes in a wide range of situations from home gardens to large scale nurseries.



Scan to see how it works

Agri Drip™ Classic & Pressure Compensating

A sealed turbulent flow path dripper that provides consistent and uniform performance at an economical price.

Features

- Agri Drip™ classic with colour coded bases
- Positive barb connection to suit 4 mm ID micro tube or direct connection to supply tubing.
- Classic for rainwater tanks and low pressure systems.



Applications

Horticultural tree and row crops, vineyards and landscape.

Agri Drip™ Classic



Agri Drip™ PC

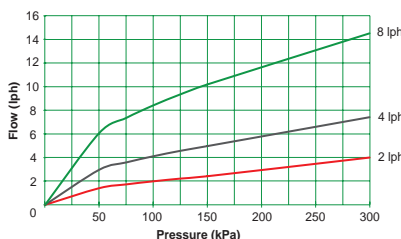
Performance Chart - Agri Drip™ Classic

Pressure (kPa)	Flow (lph)		
	2 lph	4 lph	8 lph
50	1.4	3.0	6.0
75	1.7	3.6	7.4
100	2.0	4.1	8.4
125	2.2	4.6	9.3
150	2.4	5.0	10.2
MINIMUM FLOW PATH DIMENSION (MM)	0.9 x 0.7	1.3 x 0.8	1.8 x 1.1

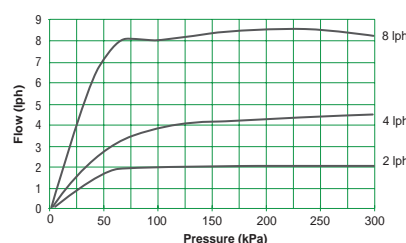
Performance Chart - Agri Drip™ PC

Pressure (kPa)	Flow (lph)		
	2 lph	4 lph	8 lph
50	1.7	2.8	7.3
100	2.0	3.9	8.1
150	2.1	4.1	8.4
200	2.1	4.3	8.6
250	2.1	4.5	8.6
300	2.1	4.5	8.3
350	2.1	4.5	7.6
MINIMUM FLOW PATH DIMENSION (MM)	0.70 x 0.65	0.80 x 0.80	0.70 x 1.00

Flow Rate - Agri Drip™ Classic



Flow Rate - Agri Drip™ PC



Ordering Information - Agri Drip™

Base type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Agri Drip™ Classic 2 lph Red	30225	100	85	10.4
Agri Drip™ Classic 4 lph Grey	30245	100	85	10.4
Agri Drip™ Classic 8 lph Green	30285	100	85	10.4
Agri Drip™ PC 2 lph	30325	100	75	10.6
Agri Drip™ PC 4 lph	30345	100	75	10.6
Agri Drip™ PC 8 lph	30365	100	75	10.6

Specifications

UV Stabilised Materials	Base/Connection Type
BASE polypropylene	INLET barb 4 mm
CAP polypropylene	OUTLET spout 4 mm
DIAPHRAGM silicone rubber (Agri Drip™ PC)	

Asta® Drip Spike Pressure Compensating Emitter

PC emitter with a sealed turbulent flow path and an anchoring spike to deliver water direct to the plant root zone.

Features

- Three colour-coded flow rates: 2 lph (Red), 4 lph (Black) & 8 lph (Green).
- Turbulent flow path & self-flushing cleaning action at low pressure.
- Outlet includes insect baffle to minimise blockages.
- Inlet barb has built-in filter.
- UV stabilised materials for long life.



Asta® Drip PC
2 lph Spike

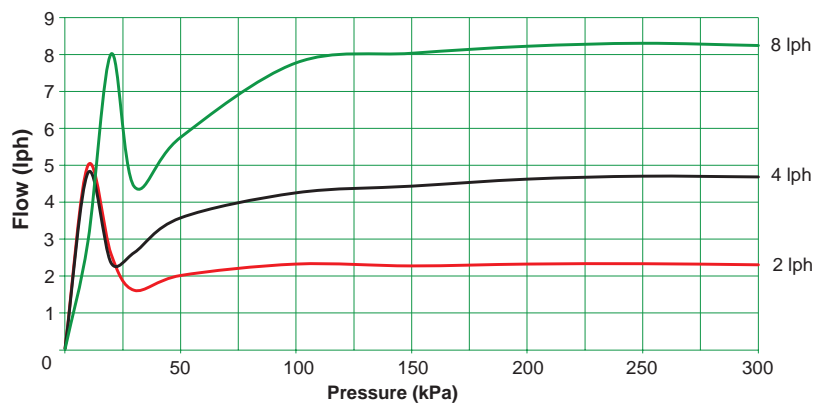
Asta® Drip PC
4 lph Spike

Asta® Drip PC
8 lph Spike

Performance Chart

Pressure (kPa)	Flow Rate (lph)		
	2 lph	4 lph	8 lph
50	2.0	3.6	5.8
100	2.3	4.3	7.8
150	2.3	4.4	8.0
200	2.3	4.6	8.2
250	2.3	4.7	8.3
300	2.3	4.7	8.2
350	2.2	4.6	8.0
MINIMUM FLOW PATH DIMENSION (MM)	0.7 x 0.6	0.8 x 0.8	1.2 x 0.9

Flow Rate



Ordering Information - Asta® Drip PC Spike

Base type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
2 lph Red	30735	25	50	7.1
4 lph Black	30745	25	50	7.1
8 lph Green	30755	25	50	7.1

Specifications

Dimensions Assembled		UV Stabilised Materials		Base/Connection Type	
HEIGHT	144 mm	SPIKE	polypropylene	INLET	barb 4 mm
WIDTH	33 mm	BASE	polypropylene	OUTLET	spout 4 mm
DEPTH	17 mm	DIAPHRAGM	silicone rubber		
WEIGHT (approx.)	4.5 g				

Applications

Nurseries, shade houses, tree lots and landscape applications.



Scan to see how it works

SPEC Drip™ Pressure Compensating Emitter

NEW

A dripper with a self-piercing inlet barb for easy installation and a barbed outlet for secure connection of 4mm ID offtake tubing. The sealed turbulent flow path and diaphragm ensure uniform flow rates across a wide pressure range.

Features

- Self piercing inlet barb with colour coded bases.
- Self-flushing cleaning action at low pressures.
- Insect baffle to reduce risk of blockages.
- SPEC Drip™ available as an assembly with tube and drip stake for connection to 3 & 4 mm ID off-take tube.
- Inlet barb has built-in filter.
- UV stabilised materials for long life.
- Resistant to common agricultural chemicals & fertilisers.
- Antelco Drip Mate® Tool aids installation without pre-piercing.
- Low manufacturing variation (Cv) to provide high performance (ISO 9261).



Applications

Vineyards, orchards, row crops and landscape.



SPEC Drip™ PC 2 lph

SPEC Drip™ PC 4 lph

SPEC Drip™ PC 8 lph

SPEC Drip™ w/ Tube & Drip Stake Assembly

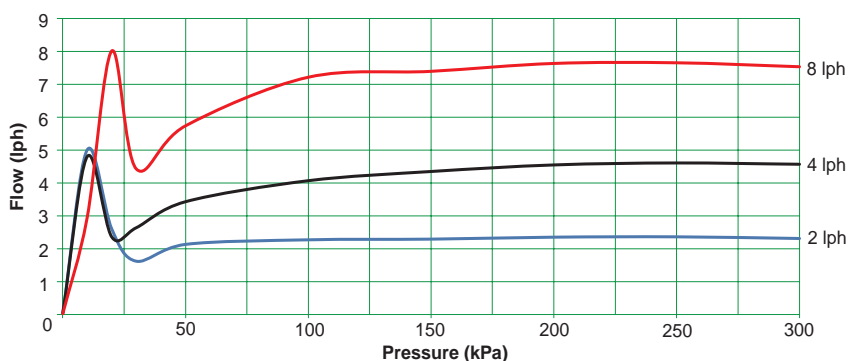
Specifications - SPEC Drip™

Dimensions Assembled		UV Stabilised Materials		Base/Connection Type	
HEIGHT	25 mm	CAP	acetal	INLET	self piercing barb 4 mm
WIDTH	28 mm	BASE	acetal	OUTLET	barb 4 mm
DEPTH	15 mm	DIAPHRAGM	silicone rubber	OUTLET	barb 4 mm
WEIGHT (approx.)	1.0 g				

Performance Chart

Pressure (kPa)	Flow (lph)		
	2 lph	4 lph	8 lph
50	2.0	3.4	5.7
100	2.3	4.1	7.2
150	2.3	4.4	7.4
200	2.3	4.6	7.6
250	2.3	4.6	7.7
300	2.3	4.6	7.5
350	2.2	4.5	7.3
MINIMUM FLOW PATH DIMENSION (MM)	0.7 x 0.6	0.8 x 0.8	1.2 x 0.9

Flow Rate



Ordering Information - SPEC Drip™ PC

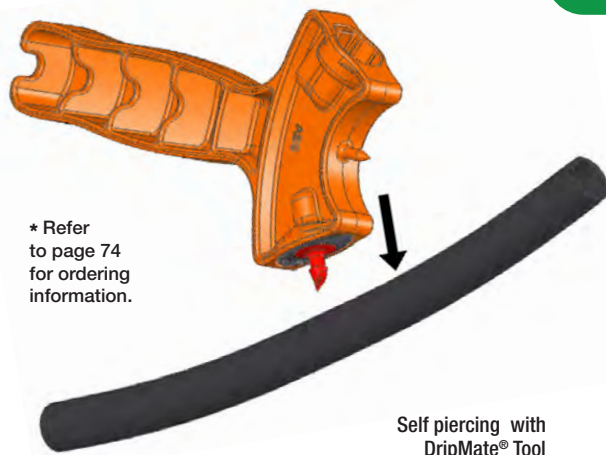
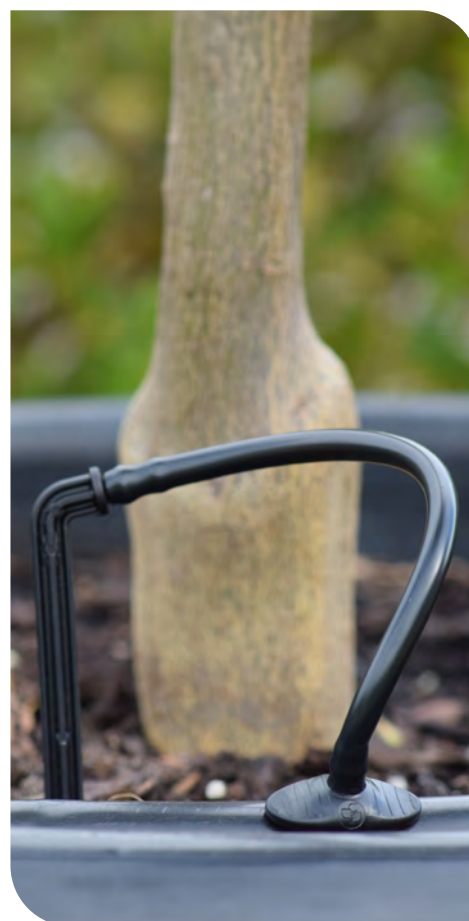
Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
2 lph Blue Self Piercing Barb	30805	100	85	13.5
4 lph Black Self Piercing Barb	30825	100	85	13.5
8 lph Red Self Piercing Barb	30835	100	85	13.5

Ordering Information - SPEC Drip™ w/ Tube & Drip Stake Assembly

Description	Tube Length	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
2 lph Blue Barb	580 mm	43775	25	TBA	TBA
4 lph Black Barb	580 mm	43785	25	TBA	TBA
8 lph Red Barb	580 mm	43795	25	TBA	TBA

Ordering Information - Locating Drip Stake **NEW**

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Locating Drip Stake (suits 3mm/4mm tube)	43605	25	TBA	TBA



CETA® Pressure Compensating Emitter

A take apart pressure compensating dripper incorporating a turbulent flow path and diaphragm for uniform flow rates over a wide range of operating pressures.

Features

- Take apart for easy inspection and cleaning.
- Self-flushing action at low pressure.
- Anti-insect baffle to reduce risk of blockages.
- Spike & In-Line Spike models to anchor CETA® at the plant root.
- 4 mm barbed inlet dripper with colour coded bases.
- Constructed of high quality UV, chemical & fertiliser resistant materials.
- Low manufacturing coefficient of variation (Cv) provides high performance (conforms to ISO 9261).



CETA® PC Spike
Inlet/Outlet 4 mm



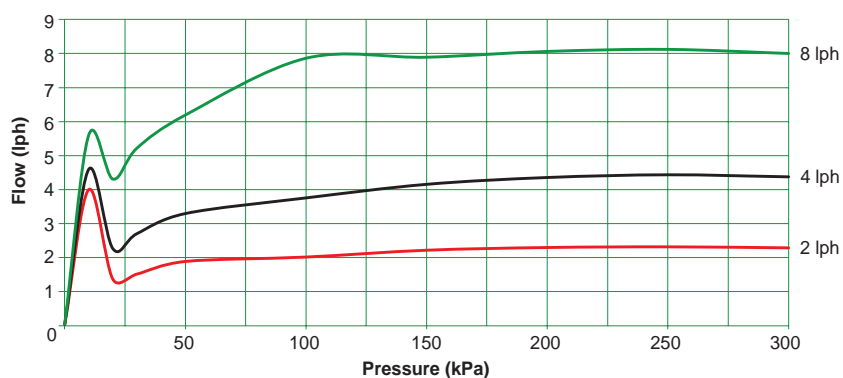
CETA® PC In-Line Spike
Inlet/Outlet 4 mm



Applications

Pots, planter boxes, balcony, patios and landscape.

Flow Rate



Specifications

		CETA® PC Barbed Outlet	CETA® PC Spike, In-Line Spike, Spout Outlet
UV STABILISED MATERIAL	BASE/SPIKE CAP DIAPHRAGM ADAPTOR	polypropylene polypropylene silicone rubber acetal	polypropylene polypropylene silicone rubber
CONNECTION TYPE:	INLET OUTLET	barb 4 mm barb 3 mm or 4 mm	barb 4 mm spout 4 mm

Performance Chart

Pressure (kPa)	Flow (lph)		
	2 lph	4 lph	8 lph
50	1.9	3.3	6.2
100	2.0	3.8	7.9
150	2.2	4.2	7.9
200	2.3	4.4	8.1
250	2.3	4.4	8.1
300	2.3	4.4	8.0
350	2.2	4.3	7.8
MINIMUM FLOW PATH DIMENSION (MM)	0.7 x 0.6	0.8 x 0.8	1.2 x 0.9



CETA® PC 2 lph

Ordering Information - CETA® PC Spike

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Spike 2 lph	30615	25	60	9.0
Spike 4 lph	30625	25	60	9.0
Spike 8 lph	30635	25	60	9.0
In-Line Spike 2 lph	30645	25	50	7.7
In-Line Spike 4 lph	30655	25	50	7.7
In-Line Spike 8 lph	30665	25	50	7.7

NEW

NEW

NEW

NEW



Spout Outlet

Barbed Outlet

Ordering Information - CETA® PC Spout Outlet

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
2 lph Red Base	30425	100	70	13.3
4 lph Black Base	30445	100	70	13.3
8 lph Green Base	30485	100	70	13.3

CETA® PC 4 lph



Spout Outlet

Barbed Outlet

Ordering Information - CETA® PC Barbed Outlet

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
2 lph Red Base w/ 3 mm Barbed Outlet	30515	100	60	13.5
4 lph Black Base w/ 3 mm Barbed Outlet	30525	100	60	13.5
8 lph Green Base w/ 3 mm Barbed Outlet	30535	100	60	13.5
2 lph Red Base w/ 4 mm Barbed Outlet	30545	100	60	13.5
4 lph Black Base w/ 4 mm Barbed Outlet	30555	100	60	13.5
8 lph Green Base w/ 4 mm Barbed Outlet	30565	100	60	13.5

NEW

NEW

NEW

CETA® PC 8 lph



Spout Outlet

Barbed Outlet

Ordering Information - Locating Drip Spike NEW

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Locating Drip Stake (suits 3mm/4mm tube)	43605	25	TBA	TBA

Shrubbler® 360° Pressure Compensating

PC emitter that provides a fixed diameter over a wide range of operating pressures. Gentle stream action with uniform coverage for all emitters on the same supply tube.

Features

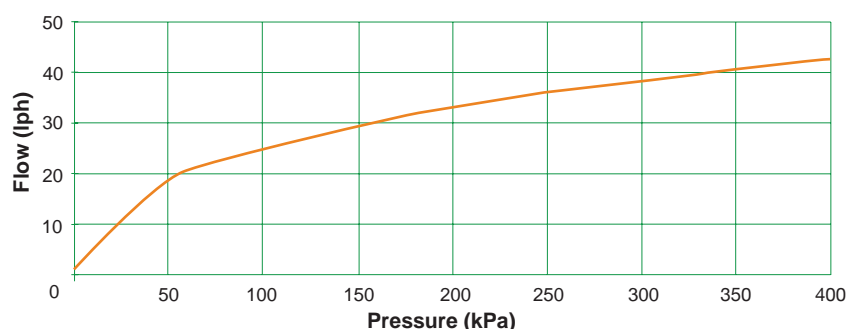
- Pressure compensating operation maintains diameter of throw over a wide range of inlet pressures.
- Take apart for easy inspection and cleaning.
- Coloured cap for easy identification.
- UV stabilised materials for long life.
- Resistant to common agricultural chemicals & fertilisers.



Performance Chart

Pressure (kPa)	360° *	
	Flow (lph)	Diameter (m)
100	25	0.2
150	29	0.3
200	33	0.3
250	36	0.4
300	38	0.4

Flow Rate



Ordering Information - Shrubbler® 360° PC

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Barb 4 mm	31685	100	70	13.1
Spike	31695	25	60	8.5
In-Line Spike	31705	25	50	8.0

Specifications

		Barb	Spike
UV STABILISED MATERIAL	BASE CAP DIAPHRAGM	polypropylene polypropylene silicone rubber	polypropylene polypropylene silicone rubber
BASE / CONNECTION TYPE: INLET		barb 4 mm	barb 4 mm



Applications

Pots, planter boxes, balcony, patio and landscape

Pinch Drip™ Pressure Compensating Emitter

A sealed turbulent flow path PC dripper incorporating a diaphragm that maintains uniform flow rates over a wide range of operating pressures. Low profile design to minimise risk of dislodgement from supply tubing.

Features

- Low manufacturing coefficient of variation (Cv) to provide high performance (conforms to ISO 9261).
- Colour code bases.
- Self-flushing cleaning action at low pressures.
- Inlet barb has built-in filter.
- UV stabilised materials for long life.
- Resistant to common agricultural chemicals & fertilisers.
- Insect baffle to reduce risk of blockages.
- New Drip Mate® Tool aids installation (see page 74).

NEW

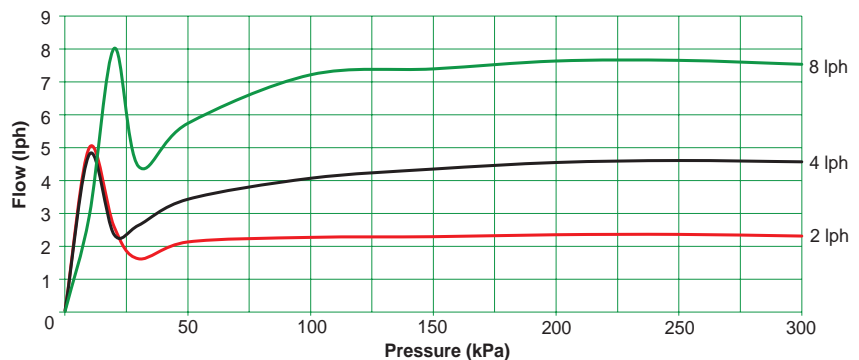

Applications

Vineyards, orchards,
row crops and landscape.

Performance Chart

Pressure (kPa)	Flow (lph)		
	2 lph	4 lph	8 lph
50	2.0	3.4	5.7
100	2.3	4.1	7.2
150	2.3	4.4	7.4
200	2.3	4.6	7.6
250	2.3	4.6	7.7
300	2.3	4.6	7.5
350	2.2	4.5	7.3
MINIMUM FLOW PATH DIMENSION (MM)	0.7 x 0.6	0.8 x 0.8	1.2 x 0.9

Flow Rate



Ordering Information - Pinch Drip™ PC

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
2 lph Red Base	30705	100	85	10.1
4 lph Black Base	30715	100	85	10.1
8 lph Green Base	30725	100	85	10.1

Specifications

Dimensions Assembled		UV Stabilised Materials		Base/Connection Type	
HEIGHT	25 mm	CAP	polypropylene	INLET	barb 4 mm
WIDTH	28 mm	BASE	polypropylene	OUTLET	spout 4 mm
DEPTH	15 mm	DIAPHRAGM	silicone rubber	OUTLET	spout 4 mm
WEIGHT (approx.)	1.1 g				



Pinch™ PC 2 lph
Barb 4 mm



Pinch™ PC 4 lph
Barb 4 mm



Pinch™ PC 8 lph
Barb 4 mm

Spectrum™ 360° Adjustable Spray

An adjustable flow, full circle vortex sprayer with fine water droplets. Flow and coverage can be altered by rotating the click indexed cap.

Features

- Finger tip flow control with shut-off option.
- Spike model to anchor Spectrum™ at the plant.
- 4 mm barb model for direct attachment to micro supply tubing.
- 4 mm thread for installation into Rigid Risers and Asta® Stakes or Micro Stakes.
- 1/2" thread for riser pipe installations.

Applications

Pots, tubs, ground cover, landscaped gardens and nurseries. Waters large garden areas when used with Asta® Stakes and Risers.



Spectrum™ Spike Inlet
4 mm w/ Break Off Adaptor



Scan to
see how
it works



Spectrum™
Barb 4 mm

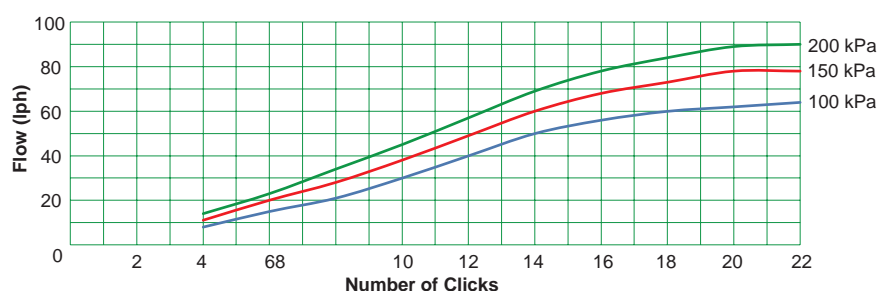
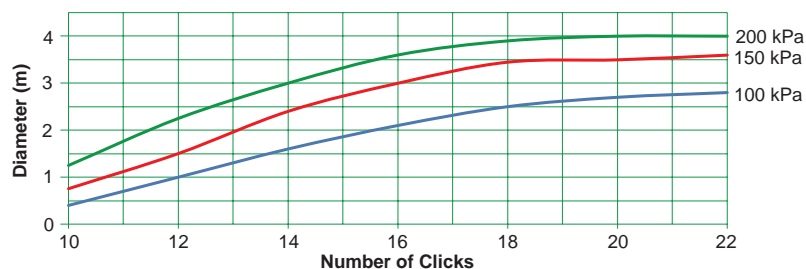
Spectrum™
Thread
4 mm

Spectrum™
Thread 1/2"
Female



Performance Chart - Fully open (approx. 22 clicks)

360° ●		
Pressure (kPa)	Flow (lph)	Diameter (m)
100	55	2.8
150	65	3.4
200	78	3.6

Flow Rate**Diameter of Throw****Ordering Information - Spectrum™ 360°**

Base type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Barb 4 mm	32045	50	100	11.8
Thread 4 mm	32015	50	100	13.8
Thread 1/2" Female	32025	25	65	9.1
Spike	32095	25	40	6.9

Specifications

		Barb	Thread	Thread 1/2"	Spike
UV STABILISED MATERIAL	BASE CAP DEFLECTOR	polypropylene polypropylene acetal	acetal polypropylene acetal	polypropylene polypropylene acetal	polypropylene polypropylene acetal
BASE/CONNECTION TYPE: INLET		barb 4 mm	thread 4 mm 10-32 UNF	thread 1/2" FNPT	barb 4 mm



Micro Sprays: Caps & Bases

A large variety of flow rates and spray patterns are achievable when the range of caps and bases are assembled into two piece jets.

Features

- Caps available in eight spray patterns.
- Colour coded bases.
- Jet assemblies made to order.
- Caps and bases can be ordered separately.



Applications

Assemblies suit garden bed watering and landscaped areas.

Accessories: Asta® Stake, Rigid Riser and Micro Stake.

Ordering Information - Spray Caps

Spray Pattern	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
360° x 18 hole	10845	100	500	15.1
360° x 15 hole	10855	100	500	15.1
360° x 12 hole	10865	100	500	15.1
300° x 10 hole	10875	100	500	15.1
270° (3 x 90°)	10835	100	500	15.1
180° fan	10825	100	500	15.1
90° fan	10815	100	500	15.1
Strip (2 x 20°)	10885	100	500	15.1

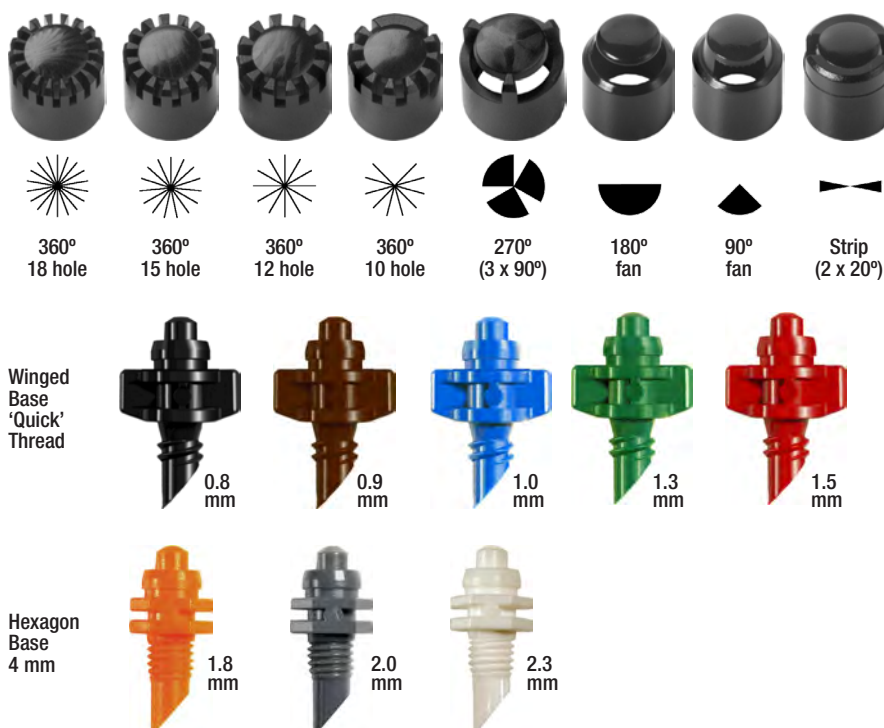
Ordering Information - Jet Bases

Nozzle Size & Colour	Base Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
0.8 mm Black	Winged	10705	100	310	17.2
0.9 mm Brown	Winged	10725	100	310	17.2
1.0 mm Blue	Winged	10715	100	310	17.2
1.3 mm Green	Winged	10735	100	310	17.2
1.5 mm Red	Winged	10755	100	310	17.2
1.8 mm Orange	Hexagon	10975	100	350	17.1
2.0 mm Grey	Hexagon	10945	100	350	17.1
2.3 mm White	Hexagon	10985	100	350	17.1

For non-standard spray jet assemblies select BASE Colour and CAP Colour with spray pattern. Allow two weeks for assembly and despatch. Urgent orders by arrangement. Minimum order - 1000 Assemblies.

Specifications- Micro Sprays Caps & Bases

	Cap	Base Winged	Base Hexagon
UV STABILISED MATERIALS	acetal	acetal	acetal
BASE/CONNECTION TYPE: Inlet		'Quick' thread 4 mm	thread 4 mm 10-32 UNF



Micro Sprays: Assembled

Two piece jets with precise watering patterns. Winged base for easy hand installation.

Features

- Nine spray patterns.
- Colour coded bases.
- Snap ring caps
- UV stabilised materials for long life.

Applications

Landscape areas, home gardens, nurseries and horticultural applications. Mist Jet ideal for greenhouse misting and hanging baskets. Strip Spray ideal for narrow garden beds. **Accessories:** Asta® Stake, Rigid Riser and Micro Stake.



* Refer to page 20 for Specifications.

Performance Chart

Pattern		360°x18	360°x15	360°x12	300°x10	270° (3x90°)	Strip (2x20°)	90°	180°	Mist
Minimum opening size		0.5 mm	0.6 mm	0.7 mm	0.7 mm	1.3 mm	1.4 mm	1.5 mm	1.5 mm	1.2 mm
Nozzle Size & Colour	Pressure (kPa)	Flow (lph)	Diameter (m)						Radius (m)	Diameter (m)
0.8 mm Black	50	15	2.6	2.2	2.6	1.2	2.4	2.4	1.1	1.2
	100	22	4.1	3.2	3.2	3.2	3.6	4.2	1.7	1.5
	150	27	4.6	3.6	4.0	4.8	2.8	5.4	2.1	1.7
	200	32	5.0	4.2	4.6	6.0	2.7	6.0	2.3	1.7
	250	36	5.3	4.8	5.0	7.0	2.7	6.4	2.6	1.8
0.9 mm Brown	50	20	2.9	2.8	2.8	2.2	2.6	2.6	1.2	1.3
	100	28	4.0	3.8	3.4	4.0	3.4	4.6	1.8	1.6
	150	34	4.8	4.4	4.2	5.4	2.9	6.0	2.4	1.8
	200	39	5.6	5.0	5.2	6.6	2.8	6.8	2.6	1.9
	250	44	6.0	5.8	6.2	7.4	3.3	7.2	2.8	2.1
1.0 mm Blue	50	24	3.6	2.6	2.8	2.4	3.2	2.6	1.2	1.5
	100	35	4.9	3.8	4.4	4.8	4.2	4.8	2.0	1.8
	150	43	5.8	4.8	5.2	7.0	3.2	5.6	2.4	2.0
	200	50	6.2	6.2	6.8	8.6	3.2	5.8	2.8	2.1
	250	57	6.4	7.0	8.4	9.0	3.4	5.8	2.8	2.3
1.3 mm Green	50	36	4.7	4.2	3.2	3.0	3.5	3.8	1.4	1.5
	100	54	6.4	5.8	5.0	5.6	3.5	5.8	2.2	2.0
	150	68	7.0	6.2	6.0	7.2	3.7	7.2	2.6	2.3
	200	80	7.2	7.8	7.0	8.0	3.7	8.4	2.0	2.5
	250	91	7.6	8.8	8.4	8.4	3.8	9.6	3.1	2.7
1.5 mm Red	50	52	4.9	4.4	4.0	4.4	3.0	4.9	1.5	1.9
	100	75	6.8	6.0	6.2	5.4	3.8	6.5	2.4	2.4
	150	92	8.2	7.4	8.4	8.8	4.4	8.9	2.9	3.0
	200	107	8.2	8.8	10.0	10.4	4.8	10.8	3.1	3.2
	250	120	7.2	10.0	11.4	11.2	5.1	11.2	3.3	3.4
1.8 mm Orange	50	64	5.0	4.6	4.6	4.2	3.6	5.0	1.7	1.7
	100	93	6.8	6.8	7.6	7.4	4.2	8.1	2.4	2.4
	150	115	8.2	8.8	9.4	8.8	4.6	9.4	2.8	2.7
	200	135	8.0	10.0	10.8	10.0	4.9	10.8	3.1	3.1
	250	152	7.3	11.4	11.6	10.6	5.3	11.5	3.3	3.3
2.0 mm Grey	50	80	5.3	4.8	5.0	4.6	3.4	5.4	1.7	1.7
	100	114	7.5	7.6	8.2	7.4	4.6	9.4	2.6	2.5
	150	141	8.1	9.6	10.2	9.2	5.1	12.0	3.1	3.1
	200	164	7.8	11.0	12.0	10.6	5.6	13.2	3.3	3.3
	250	184	6.7	12.4	13.0	11.8	6.2	13.8	3.5	3.6
2.3 mm White	50	113	5.2	4.4	6.0	4.0	3.6	5.4	1.9	2.0
	100	163	7.1	8.0	9.2	6.8	5.4	9.0	3.0	2.8
	150	201	7.3	10.4	11.6	9.6	6.6	11.0	3.6	3.4
	200	234	7.0	11.4	13.0	10.6	7.8	12.0	3.8	4.0
	250	264	6.7	12.4	14.2	11.6	8.3	12.8	4.1	4.2
0.36 mm Yellow	50	14								1.0
	100	20								0.8
	150	24								0.9
	200	28								0.8
	250	31								0.8

* Ghosted figures indicate a change of performance from spray to mist.

Ordering Information - Micro Spray Jets: Winged Assembled

Spray Pattern	Base Colour	Cap Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
360° x 18 hole	Blue	Red	14945	100	220	17.8
180° fan	Blue	Blue	14925	100	220	17.8
90° fan	Blue	Black	14115	100	220	17.8
Strip Spray (2 x 20°)	Blue	Black	14815	100	220	17.8
Mist	Yellow	Black	14995	100	220	18.6
360° x 18 hole	Green	Black	14435	100	220	17.8
180° fan	Green	Black	14235	100	220	17.8
90° fan	Green	Black	14135	100	220	17.8

Spray Jets

Single piece Spray Jet for landscape watering.

Features

- Winged base with 'Quick' thread for easy installation.
- No tools required.
- Choice of 360°, 180° or 90° spray patterns.
- Four colour coded flow rates.



Applications

Home and landscaped gardens and horticultural applications.

Accessories: Asta® Stake, Rigid Riser and Micro Stake.



Asta® Stake Assembly



Micro Stake with Off-take tube

* Refer to pages 72 & 73 for stake information

Performance Chart

Nozzle Size & Base Colour	Pressure (kPa)	Flow (lph)	Diameter (m)	Pattern	
				360°	180°
1.0 mm Blue	50	24	1.6	●	◐
	100	35	2.0		◑
	150	43	2.4		◒
1.35 mm Green	50	44	2.0		◐
	100	64	2.4		◑
	150	80	2.8		◒
1.55 mm Black	50	55	2.4		◐
	100	84	2.8		◑
	150	99	3.2		◒
1.75 mm Red	50	65	2.5		◐
	100	93	3.0		◑
	150	115	3.4		◒

Ordering Information - Single Piece Jets

Spray Pattern & Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
360° Blue	15445	100	250	16.6
180° Blue	15425	100	250	16.6
90° Blue	15415	100	250	16.6
360° Green	15545	100	250	16.6
180° Green	15525	100	250	16.6
90° Green	15515	100	250	16.6
360° Black	15645	100	250	16.6
180° Black	15625	100	250	16.6
90° Black	15615	100	250	16.6
360° Red	15745	100	250	16.6
180° Red	15725	100	250	16.6
90° Red	15715	100	250	16.6

Specifications

Dimensions		UV Stabilised Material	Base/Connection Type
HEIGHT	22 mm	acetal	INLET 'Quick' thread 4 mm
WIDTH	12 mm		
WEIGHT (approx.)	0.6 g		



Single Piece Jet Blue 90°



Single Piece Jet Green 180°



Single Piece Jet Black 180°



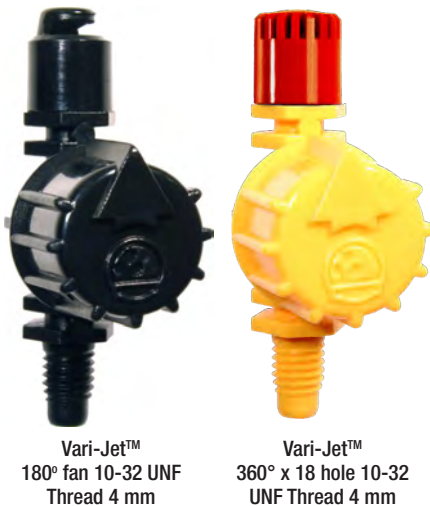
Single Piece Jet Red 360°

Vari-Jets™

A range of spray jets that incorporate a valve to adjust watering coverage and application.

Features

- Choice of 360°, 180°, 90° or mist spray patterns.
- Threaded for installation on Asta® Stakes, Asta® Stake Adaptor, Micro Stake assemblies and Rigid Risers.
- UV stabilised materials for long life.



* Refer to
pages 72 &
73 for stake
information.

Performance Chart

Cap Colour Options			Black Red	Black	Black Blue	Black
Pattern			360° x 18 	Mist 	180° 	90°
Minimum opening size			0.5 mm	1.2 mm	1.5 mm	1.5 mm
Nozzle Size & Base Colour	Pressure (kPa)	Flow (lph)	Diameter (m)		Radius (m)	
Yellow or Black max 1.5 mm	50	0 - 53	0 - 4.9		0 - 1.9	0 - 1.5
	100	0 - 78	0 - 6.8		0 - 2.4	0 - 2.4
	150	0 - 98	0 - 8.2		0 - 3.0	0 - 2.9
	200	0 - 115	0 - 8.2		0 - 3.2	0 - 3.1
	250	0 - 130	0 - 7.2		0 - 3.4	0 - 3.3
Yellow or Black max 0.36 mm	50	0 - 12		0 - 1.0		
	100	0 - 18		0 - 0.8		
	150	0 - 23		0 - 0.9		
	200	0 - 27		0 - 0.8		
	250	0 - 31		0 - 0.8		

* Ghosted figures indicate a change of performance from spray to mist.

Ordering Information - Vari-Jets™

Spray Pattern	Base Colour type	Cap Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
360° x 18 hole	Yellow 10-32 UNF	Red	13245	50	80	11.3
180° fan	Yellow 10-32 UNF	Blue	13225	50	80	11.3
90° fan	Yellow 10-32 UNF	Black	13215	50	80	11.3
Mist	Yellow 10-32 UNF	Black	13295	50	80	11.7
360° x 18 hole	Black 10-32 UNF	Black	13145	50	80	11.3
180° fan	Black 10-32 UNF	Black	13125	50	80	11.3
90° fan	Black 10-32 UNF	Black	13115	50	80	11.3
Mist	Black 10-32 UNF	Black	13195	50	80	11.7

Specifications

Dimensions Assembled		UV Stabilised Material		Base/Connection Type
HEIGHT	32 mm	CAP	acetal	INLET 10-32 UNF thread 4 mm
WIDTH	22 mm	BASE	acetal	
WEIGHT (approx.)	2.3 g	NOB	HDPE	

* Dimensions vary slightly depending on selected base and cap assembly.

Applications

Home and landscaped gardens. Vari-Mist™ is ideal for adjustable overhead watering of plants in hanging baskets.



Scan to
see how
it works

Micro Sprays: Stake Assemblies

Pre-assembled to save on installation time. Vari-Jet™ models have flow control to adjust radius of throw and reduce flow.

Features

- Choice of four spray patterns.
- Built-in hole punch.
- Vari-Jet™ Stake assemblies with 300 mm offtake tube on 300 mm stake.
- UV stabilised materials for long life.
- Retail Packaging available with barcoded product.
- Stake assemblies includes self piercing adaptor for easy installation into lateral tubing.

NEW



Applications

Home and landscaped gardens.



Micro Spray
Stake Assembly
(Strip Spray, 90°
180° & 360°)






Vari-Jet™
Stake Assembly
(90° 180° & 360°)



Retail Ready
Vari-Jet™
Stake
Assembly



Performance Chart

Pattern			360° x 18 	180° 	90° 
Nozzle Size & Colour	Pressure (kPa)	Flow (lph)	Diameter (m)	Radius (m)	
Vari-Jet™ Spike Red max. 1.5 mm	50	0 - 52	0 - 4.9	0 - 1.9	0 - 1.5
	100	0 - 75	0 - 6.8	0 - 2.4	0 - 2.4
	150	0 - 92	0 - 8.2	0 - 3.0	0 - 2.9
	200	0 - 107	0 - 8.2	0 - 3.2	0 - 3.1
	250	0 - 120	0 - 7.2	0 - 3.4	0 - 3.3

* Ghosted figures indicate a change of performance from spray to mist.

Ordering Information - Vari-Jet™ Spike

Spray Pattern	Base Colour	Cap Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
360° x 18 hole	Red	Red	13345	10	14	4.8
180° fan	Red	Blue	13325	10	14	4.8
90° fan	Red	Black	13315	10	14	4.8

Ordering Information - Winged Micro Spray Stake Assembly

Spray Pattern	Base Colour	Cap Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
360° x 18 hole	Blue	Red	17425	25	19	12.4
180° fan	Blue	Blue	17435	25	19	12.4
90° fan	Blue	Black	17445	25	19	12.4
Strip Spray (2 x 20°)	Blue	Black	17455	25	19	12.4

* Refer to page 21 for performance data.

Ordering Information - Vari-Jet™ Stake Assembly

Spray Pattern	Base Colour	Cap Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
360° x 18 hole	Black	Black	17185	25	16	11.2
180° fan	Black	Black	17195	25	16	11.2
90° fan	Black	Black	17205	25	16	11.2

* Refer to page 23 for performance data.

Ordering Information - Vari-Jet™ Stake Assembly - Retail Packs

Spray Pattern	Base Colour	Cap Colour	Order Code	Unit Per Retail Carton	Retail Carton (kg)
180° fan	Black	Black	17197	50	1.5
90° fan	Black	Black	17207	50	1.5

* Retail ready packaging available in tear-off cartons for easy shelf display.



Vari-Jet™ Spike assembled with 300 mm offtake tube and 150 mm Rigid Riser.

Vari-Jet™ Spike 180° fan

CFd® DownSpray

The patented C-Frame DownSpray is a 360° spray jet that distributes water evenly across the wetted surface area. Stake assembly options provide savings in labour and installation time.

Features

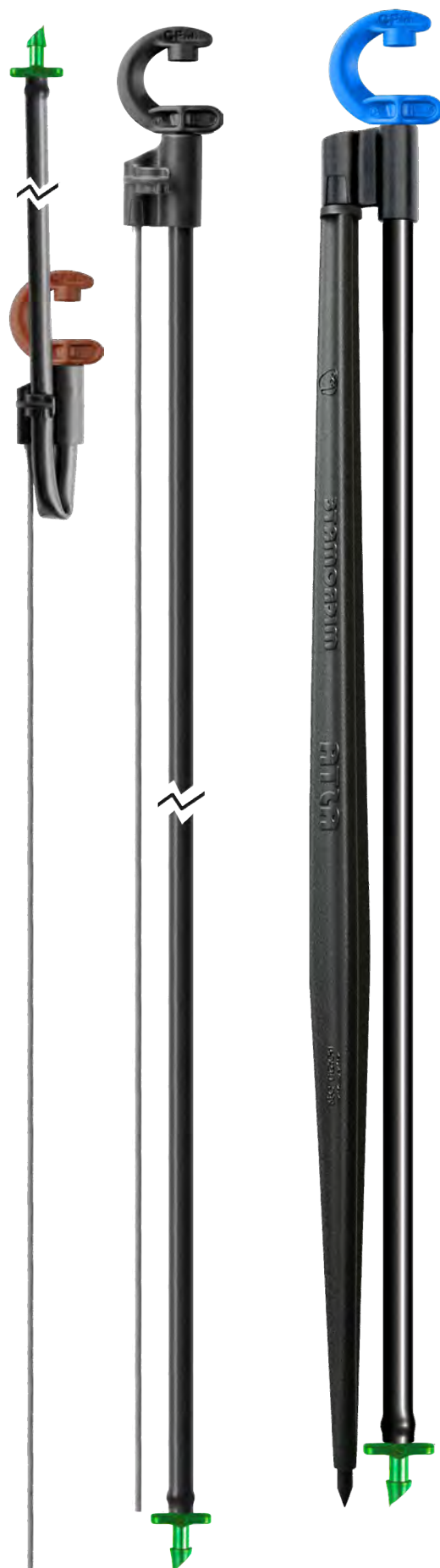
- 45° down spray reduces the effect of wind.
- Gentle spray minimises damage to delicate plant foliage.
- Stake assemblies includes self piercing adaptor for easy installation into lateral tubing. **NEW**
- 45° downspray pattern gives consistent pattern diameter with different inlet pressures making CFd® ideal for pot watering.
- Galvanised wire stake assembly incorporates shut-off clip to stop flow.
- Six colour coded frames to identify flow rates.
- “Quick” thread inlet with sealing barbs.
- UV stabilised materials.
- Diameter of spray pattern can be easily adjusted by raising or lowering the emitter height.



Scan to see how it works

Applications


Nurseries, tree lots, pot plants, home and landscaped gardens.



CFd® DownSpray Wire Stake Assembly with 914 mm Tube & Self Piercing Adaptor

CFd® DownSpray Stake Assembly with 300 mm Tube & Self Piercing Adaptor

Performance Chart

Pattern		360° 	
Nozzle Size & Colour	Pressure (kPa)	Flow (lph)	Diameter (m) at 250 mm Riser height
0.8 mm Black	50	16	0.6
	100	22	0.6
	150	27	0.5
	200	31	0.5
0.9 mm Brown	50	20	0.6
	100	28	0.5
	150	35	0.5
	200	41	0.5
1.0 mm Blue	50	24	0.6
	100	33	0.5
	150	41	0.5
	200	47	0.5
1.1 mm Grey	50	31	0.6
	100	44	0.6
	150	54	0.5
	200	63	0.5
1.5 mm Red	50	51	0.6
	100	73	0.6
	150	90	0.5
	200	104	0.5
2.1 mm Purple	50	96	0.6
	100	136	0.6
	150	165	0.5
	200	190	0.5

Ordering Information - CFd® DownSpray

Nozzle Size & Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
0.8 mm Black	19005	100	90	14.4
0.9 mm Brown	19025	100	90	14.4
1.0 mm Blue	19015	100	90	14.4
1.1 mm Grey	19045	100	90	14.4
1.5 mm Red	19055	100	90	14.4
2.1 mm Purple	19065	100	90	14.4

Ordering Information - CFd® Galvanised Rod Wire Stake Assembly

Nozzle Size & Colour	Tube Length	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
0.8 mm Black	914 mm	43705	25	12	9.7
0.9 mm Brown	914 mm	43725	25	12	9.7
1.0 mm Blue	914 mm	43715	25	12	9.7
1.1 mm Grey	914 mm	43745	25	12	9.7
1.5 mm Red	914 mm	43755	25	12	9.7
2.1 mm Purple	914 mm	43765	25	12	9.7

Ordering Information - Galvanised Rod Wire Stake Assembly **NEW**

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Galvanised Wire Stake Assembly 300mm Rod w/ 914mm Tube & Adaptor	43735	25	12	9.2

Ordering Information - CFd® DownsRay Stake Assembly

Nozzle Size & Colour	Tube Length	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
1.0 mm Blue	300 mm	17515	25	16	11.1
1.0 mm Blue	914 mm	17615	25	10	8.5



CFd® DownSpray Range

CFa AgSpray™

A high performance 360° 12-stream Hi-Lo open spray jet designed for agricultural irrigation systems. C-Frame with no moving parts for long life in harsh conditions.

Features

- Colour coded for flow rate identification.
- 26° High x 12.5° Low Trajectory
- Robust proven C-Frame design.
- No moving parts.
- “Quick” thread inlet with sealing barb.
- UV stabilised materials for long life.
- Stake assemblies includes self piercing adaptor for easy installation in lateral tubing. **NEW**



Scan to see how it works



Applications


Specifically designed for orchards and horticultural crops.

Accessories: Asta® Stake, Rigid Riser and Micro Stake.



CFa AgSpray™ Stake Assembly with 600 mm Tube and Self Piercing Adaptor

Performance Chart

Pattern/ Trajectory	360° x 12 Streams - hi Lo 26° High x 12.5° Low Trajectory 					
	Tested at 0.2 m above ground					
Nozzle Size & Colour	Pressure (kPa)	Flow (lph)	Diameter (m) High Low		Hydraulic Flow Data Constant (k) Exponent (x)	
0.8 mm Black	50	16	2.6	2.0	2.382	0.49
	100	22	3.5	2.8		
	150	27	4.2	3.4		
	200	31	4.8	3.9		
	250	35	5.3	4.4		
0.9 mm Brown	50	20	3.1	2.3	2.593	0.52
	100	28	4.1	3.1		
	150	35	4.8	3.8		
	200	41	5.3	4.4		
	250	46	5.8	4.9		
1.0 mm Blue	50	24	3.4	2.4	3.583	0.49
	100	33	4.2	3.4		
	150	41	4.8	4.1		
	200	47	5.3	4.7		
	250	52	5.6	5.2		
1.1 mm Grey	50	31	4.1	3.2	4.246	0.51
	100	44	5.3	4.2		
	150	54	6.0	4.9		
	200	63	6.6	5.5		
	250	70	7.2	6.0		
1.5 mm Red	50	51	5.5	4.3	6.807	0.52
	100	73	6.9	5.6		
	150	90	7.9	6.5		
	200	104	8.8	7.3		
	250	117	9.4	8.0		
2.1 mm Purple	50	96	6.2	5.4	13.735	0.50
	100	136	8.4	7.4		
	150	165	9.8	8.6		
	200	190	11.0	9.0		
	250	215	12.0	9.2		



CFa AgSpray™ Range

Ordering Information - CFa AgSpray™

Nozzle Size & Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
0.8 mm Black	13005	100	90	15.0
0.9 mm Brown	13075	100	90	15.0
1.0 mm Blue	13015	100	90	15.0
1.1 mm Grey	13065	100	90	15.0
1.5 mm Red	13055	100	90	15.0
2.1 mm Purple	13085	100	90	15.0

Ordering Information - CFa AgSpray™ Stake Assembly w/ 600mm Tube & Adaptor

Nozzle Size & Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
0.8 mm Black	41605	25	5	6.9
0.9 mm Brown	41675	25	5	6.9
1.0 mm Blue	41615	25	5	6.9
1.1 mm Grey	41665	25	5	6.9
1.5 mm Red	41655	25	5	6.9
2.1 mm Purple	41685	25	5	6.9

Frame Jets™

Low maintenance open spray jets which excel in performance and reliability. Deflector snaps on to frame to temporarily restrict spray diameter for young trees.

Features

- Open frame and spray plate.
- No moving parts.
- Choice of 7 spray patterns and 8 flow rates.
- Colour coded nozzles for flow rate identification.
- 'Quick' thread for easy insertion into tubing, Rigid Risers or micro stakes.



Applications

Specifically designed for orchards, vineyards and horticultural crops. **Accessories:** Rigid Riser and Micro Stake.

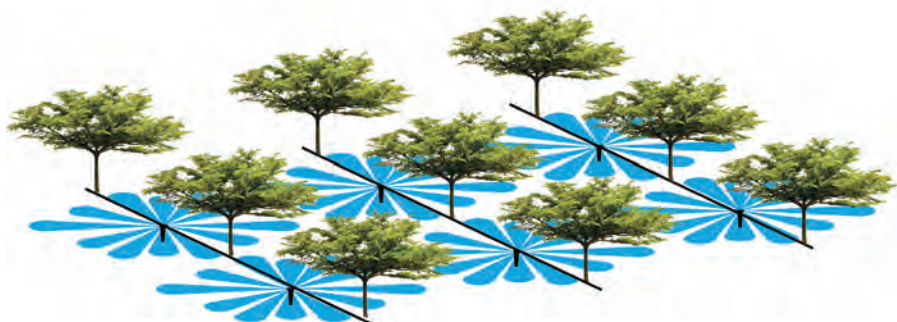
Ordering Information - Frame Jets™

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Frame Jets™	Page 31	50	120	12.7
Deflector	12995	50	120	12.6
Micro Stake with 600 mm Tube & Adaptor	40705	25	5	6.7

Specifications

Dimensions		UV Stabilised Material		Base/Connection Type
HEIGHT	32 mm	FRAME	acetal	INLET 'Quick' thread 4 mm
WIDTH	13mm	BASE	acetal	
LENGTH	27mm	DEFLECTOR	acetal	
WEIGHT (approx)	1.8g.			

Typical System



Performance and Ordering Information

Pattern		A 360° x 12		B Butterfly		C 210° x 8		E 360° x 22		J 360° x 12		R Rectangular		V 300° x 10	
Trajectory		26° High 12.5° Low		22°		22°		12.5°		22°		12.5°		22°	
Nozzle Size & Colour	Press (kPa)	Flow (lph)	Diameter (m) High	Diameter (m) Low	Order Code	Diameter (m)	Order Code	Diameter (m)	Order Code	Diameter (m)	Order Code	Diameter (m)	Order Code	Diameter (m)	Order Code
0.8 mm Black	50	16	3.0	2.3		3.6		3.7		2.3		2.8		3.2	
	100	23	3.8	3.0		5.0		5.2		3.0		3.9		3.7	
	150	28	4.5	3.8	12105	6.0	12205	6.1	12305	3.2	12505	4.4	12705	4.2	12805
	200	33	5.2	4.3		6.5		6.4		3.4		5.1		4.8	
	250	37	5.9	4.6		7.2		6.7		3.8		5.8		5.0	
0.85 mm Orange	50	18	3.6	2.8		4.1		3.9		2.6		3.1		3.2	
	100	26	4.7	3.9		5.4		5.3		3.4		4.3		4.3	
	150	32	5.6	4.5	12175	6.0	12275	5.9	12375	3.8	12575	5.1	12775	5.0	12875
	200	37	5.9	5.0		6.8		6.5		4.3		5.5		5.5	
	250	42	6.9	5.5		7.6		7.0		4.7		5.9		6.0	
0.9 mm Brown	50	21	3.2	2.6		4.2		3.6		2.6		3.2		3.0	
	100	30	4.6	3.6		6.1		4.9		3.5		4.2		3.9	
	150	37	5.6	4.4	12125	6.8	12225	5.6	12325	3.8	12525	4.9	12725	4.4	12825
	200	43	6.1	5.0		7.4		6.1		4.2		6.0		4.9	
	250	48	7.0	6.0		8.1		6.7		4.6		6.3		5.3	
1.0 mm Blue	50	26	4.0	3.0		4.4		4.3		3.1		3.5		3.8	
	100	37	5.4	4.7		6.0		6.0		3.8		4.8		4.8	
	150	46	5.7	4.7	12115	6.7	12215	6.8	12315	4.4	12515	5.5	12715	5.7	12815
	200	54	7.9	6.7		8.3		7.5		5.0		6.3		6.1	
	250	60	7.4	6.3		8.6		7.9		5.5		6.8		6.5	
1.1 mm Purple	50	31	4.4	3.4		5.3		4.7		3.5		3.4		3.9	
	100	45	6.5	4.7		7.1		6.5		4.4		4.7		5.4	
	150	55	7.3	5.4	12165	7.9	12265	7.5	12365	5.0	12565	5.5	12765	6.5	12865
	200	65	8.0	6.1		9.2		8.6		5.7		6.4		6.9	
	250	73	8.6	6.8		9.9		9.0		6.3		6.9		7.4	
1.23 mm Grey	50	37	5.2	4.1		5.5		5.4		3.7		4.2		4.8	
	100	53	7.3	5.9		7.6		7.4		5.1		5.6		6.4	
	150	65	8.6	6.8	12145	8.6	12245	8.3	12345	5.6	12545	6.5	12745	7.4	12845
	200	76	9.4	7.7		9.5		9.4		6.4		7.3		8.2	
	250	85	10.3	8.5		10.1		10.4		6.8		7.7		8.9	
1.3 mm Green	50	42	4.9	3.8		5.4		5.2		3.8		3.9		4.5	
	100	61	6.5	5.3		7.1		7.2		5.0		5.0		6.1	
	150	75	7.4	6.4	12135	8.6	12235	8.2	12335	5.9	12535	6.1	12735	7.0	12835
	200	86	8.2	7.0		9.5		9.1		6.6		6.7		7.6	
	250	98	9.0	7.8		10.8		10.2		7.3		7.4		8.1	
1.55 mm Red	50	57	5.5	4.3		6.4		5.6		4.3		4.2		5.0	
	100	84	7.8	6.0		8.6		7.8		5.7		6.1		7.2	
	150	103	9.6	6.9	12155	10.0	12255	8.9	12355	6.6	12555	7.1	12755	8.7	12855
	200	120	11.4	8.2		11.2		9.8		7.6		8.1		9.5	
	250	136	12.4	9.3		12.3		11.0		8.2		9.1		10.0	

Rotor Spray™ Mini Sprinklers

Durable and reliable with excellent distribution uniformity. Vari-Rotor Spray™ can be adjusted to alter flow and coverage.

Features

- C-Frame design for uniform distribution.
- Rotor Spray™ has a 19° trajectory and Inverted Rotor Spray™ has a -19° trajectory when installed in an inverted position.
- Full flow flipper suspended between two bearings for reliable performance.
- Inverted model incorporates special khaki coloured flipper with dust cover to protect bearing.
- Colour coded nozzles.
- 4 mm thread for installing into Rigid Risers, Asta® Stake Adaptor, Micro Stake and 1/2" micro threaded adaptors.
- UV stabilised materials for long life.
- Stake assemblies includes self piercing adaptor.
- Retail Ready quantity options available (see page 80 for details).



Applications

Landscape areas, home gardens, nurseries, and horticultural applications. Inverted Rotor Spray™ ideal for overhead greenhouse and nursery watering.

Ordering Information - Rotor Spray™

Nozzle Size & Colour	Base Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
0.9 mm Brown	4 mm	20025	50	110	12.5
1.0 mm Blue	4 mm	20015	50	110	12.5
1.3 mm Green	4 mm	20035	50	110	12.5
1.5 mm Red	4 mm	20055	50	110	12.5
1.8 mm Orange	4 mm	20075	50	110	12.5
2.0 mm Grey	4 mm	20045	50	110	12.5

Ordering Information - Inverted Rotor Spray™

Nozzle Size & Colour	Base Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
0.9 mm Brown	4 mm	20125	50	110	12.5
1.0 mm Blue	4 mm	20115	50	110	12.5
1.3 mm Green	4 mm	20135	50	110	12.5
1.5 mm Red	4 mm	20155	50	110	12.5

Ordering Information - Vari-Rotor Spray™

Nozzle Size & Colour	Base Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
1.5 mm Yellow	4 mm	20295	25	88	9.6
1.5 mm Black	4 mm	20205	25	88	9.6

Ordering Information - Rotor Spray™ Stake Assembly w/ 300 mm Tube & Barb Adaptor

Nozzle Size & Colour	Base Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
1.3 mm Green	4 mm	17245	25	16	11.1

Ordering Information - Vari-Rotor Spray™ Stake Assembly w/ 300 mm Tube & Barb Adaptor

Nozzle Size & Colour	Base Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
1.5 mm Black	4 mm	17295	25	13	10.0





Performance Chart - Rotor Spray™ & Inverted Rotor Spray™

Type			Rotor Spray™		Inverted Rotor Spray™	
			Tested 0.2 m above ground		Tested 0.8 m above ground	Tested 2.0 m above ground
Nozzle Size & Colour	Pressure (kPa)	Flow (lph)	Diameter (m)	Stream Height (m)	Diameter (m)	Diameter (m)
0.9 mm Brown	100	31	5.2	0.2	4.0	5.4
	125	35	5.6	0.3	4.2	5.8
	150	38	5.6	0.4	4.2	6.0
1.0 mm Blue	100	38	5.2	0.3	4.2	5.6
	125	42	5.4	0.4	4.4	5.8
	150	46	5.4	0.5	4.6	6.0
1.3 mm Green	100	61	6.0	0.4	4.2	5.8
	150	76	6.9	0.5	4.6	6.2
	200	88	7.2	0.5	5.0	6.6
1.5 mm Red	100	85	6.5	0.4	4.4	6.2
	150	105	7.5	0.4	4.8	6.4
	200	120	8.1	0.4	5.0	7.2
1.8 mm Orange	100	95	6.7	0.3		
	150	117	7.5	0.4		
	200	135	8.4	0.5		
2.0 mm Grey	100	120	6.8	0.4		
	150	150	7.8	0.4		
	200	175	8.0	0.5		



Rotor Spray™ Stake Assembly with 300 mm Tube and Self Piercing Adaptor

Vari-Rotor Spray™ Stake Assembly with 300 mm Tube and Self Piercing Adaptor



Performance Chart - Vari-Rotor Spray™

Type			Vari-Rotor Spray™	
			Tested 0.2 m above ground	
Nozzle Size & Colour	Pressure (kPa)	Flow (lph)	Diameter (m)	Stream Height (m)
1.5 mm Yellow	100	0-82	0-6.5	0-0.4
	150	0-105	0-7.5	0-0.4
	200	0-123	0-8.1	0-0.4
1.5 mm Black	100	0-82	0-6.5	0-0.4
	150	0-105	0-7.5	0-0.4
	200	0-123	0-8.1	0-0.4

Specifications

		Rotor Spray™ and Inverted Rotor Spray™	Vari-Rotor Spray™
UV STABILISED MATERIAL	FRAME BASE FLIPPER KNOB	acetal acetal nylon -	acetal acetal nylon HDPE
BASE/CONNECTION TYPE: INLET		10-32 UNF thread 4 mm	10-32 UNF thread 4 mm

Rotor Rain® Mini Sprinklers

Low trajectory larger droplet mini sprinkler available in a range of flow rates and thread types.

Features

- C-frame design for high distribution uniformity.
- Full flow flipper suspended between two bearings for reliable performance.
- 23° trajectory
- Colour coded nozzles to identify flow rates.
- Break-off spray deflector.
- UV stabilised materials for long life.
- Available in 3/8" or 1/2" male threaded inlets.
- Stake assemblies includes self piercing adaptor for easy installation into lateral tubing. **NEW**



Applications

Vines, row and tree crops such as nuts, citrus and apples. **Accessories:** Rotor Stakes and adaptors.



Ordering Information - Rotor Rain® 3/8" Male Thread

Nozzle Size & Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
0.9 mm Black	20625	50	28	11.8
1.0 mm White	20635	50	28	11.8
1.2 mm Brown	20645	50	28	11.8
1.5 mm Green	20335	50	28	11.8
1.7 mm Blue	20315	50	28	11.8
1.9 mm Grey	20345	50	28	11.8
2.0 mm Yellow	20395	50	28	11.8
2.1 mm Olive	20385	50	28	11.8
2.4 mm Red	20355	50	28	11.8
2.6 mm Orange	20375	50	28	11.8
2.8 mm Purple	20365	50	28	11.8

Ordering Information - Rotor Rain® 1/2" Male Thread

Nozzle Size & Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
0.9 mm Black	20655	50	20	11.4
1.0 mm White	20665	50	20	11.4
1.2 mm Brown	20675	50	20	11.4
1.5 mm Green	20535	50	20	11.4
1.7 mm Blue	20515	50	20	11.4
1.9 mm Grey	20545	50	20	11.4
2.0 mm Yellow	20595	50	20	11.4
2.1 mm Olive	20585	50	20	11.4
2.4 mm Red	20555	50	20	11.4
2.6 mm Orange	20575	50	20	11.4
2.8 mm Purple	20565	50	20	11.4

Specifications

	Roto Rain® 3/8"	Roto Rain® 1/2"
UV STABILISED MATERIALS	acetal nylon acetal	acetal nylon acetal
FRAME FLIPPER NOZZLE		
BASE/CONNECTION TYPE: INLET	thread 3/8" BSPM	thread 1/2" MNPT



* Refer to pages 42 & 43 for Sprinkler Accessories.

Rotor Rain® Stake Assembly with 600 mm Tube & Self Piercing Adaptor

Performance Chart - Rotor Rain®

	Pressure (kPa)	Flow (lph)	Tested 0.2 m above ground		
			Diameter (m)	Stream Height (m)	Deflector Diameter (m)
0.9 mm Black	100	30	3.5	0.3	2.2
	150	37	3.9	0.3	
	200	43	4.1	0.3	
	250	48	4.3	0.4	
1.0 mm White	100	35	4.4	0.4	2.5
	150	43	5.5	0.4	
	200	50	6.1	0.4	
	250	57	6.3	0.5	
1.2 mm Brown	100	54	4.5	0.4	2.2
	150	66	5.6	0.4	
	200	77	6.2	0.4	
	250	86	6.3	0.4	
1.5 mm Green	100	77	7.8	0.5	2.8
	150	94	8.7	0.5	
	200	110	9.1	0.6	
	250	120	8.5	0.7	
1.7 mm Blue	100	100	8.6	0.7	2.8
	150	125	9.3	0.7	
	200	145	9.6	0.8	
	250	163	9.3	0.9	
1.9 mm Grey	100	125	8.9	0.7	2.8
	150	153	10.2	0.8	
	200	178	9.8	0.8	
	250	200	10.0	0.9	
2.0 mm Yellow	100	147	10.0	0.6	3.0
	150	183	11.0	0.8	
	200	215	11.2	0.9	
	250	240	11.0	1.0	
2.1 mm Olive	100	168	10.7	0.7	3.0
	150	205	11.6	0.8	
	200	235	11.8	0.9	
	250	265	11.4	0.9	
2.4 mm Red	100	195	11.0	0.6	3.2
	150	240	12.5	0.9	
	200	280	12.5	1.0	
	250	315	12.1	1.0	
2.6 mm Orange	100	245	10.9	0.7	3.2
	150	300	11.9	0.8	
	200	350	12.1	0.9	
	250	395	12.0	1.0	
2.8 mm Purple	100	265	11.2	0.8	4.0
	150	330	12.8	0.9	
	200	385	13.0	1.0	
	250	430	12.4	1.1	

Ordering Information - Rotor Rain® Stake Assembly w/ 600 mm Tube & Adaptor

Nozzle Size & Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
0.9 mm Black	43805	10	10	7.0
1.0 mm White	43885	10	10	7.0
1.2 mm Brown	43825	10	10	7.0
1.5 mm Green	43835	10	10	7.0

Recommended riser tubing sizes

Install on 5 mm Micro tubing

0.9 mm Black	1.0 mm White	1.2 mm Brown	1.5 mm Green
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Install on 10 mm or 13 mm tubing

1.7 mm Blue	1.9 mm Grey	2.0 mm Yellow	2.1 mm Olive	2.4 mm Red	2.6 mm Orange	2.8 mm Purple
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Rotor Rain® Plus Mini Sprinkler

A high performance and featured range of mini sprinklers with a profiled double frame to maximise water distribution.

Features

- Anti-insect spinner design.
- Colour coded bases.
- Easy turn field disassembly.
- Long field life bearing and spinner.
- Suspension hole for trellis applications.
- 21° trajectory
- Standard or Deflector spinner for young trees.
- Available in 3/8" or 1/2" male threaded inlets.
- UV stabilised materials for long life.
- Stake assemblies includes self piercing adaptor.

NEW



Applications

Orchards, row crops, smaller vegetable plots, greenhouses and nurseries.



Rotor Rain® Plus with Deflector 3/8" Male Thread



Rotor Rain® Plus 1/2" Male Thread

Ordering Information - Rotor Rain® Plus 3/8" Male Thread

Nozzle Size & Colour	Order Code Standard Spinner	Order Code w/Deflector Spinner	Pack Quantity	Packs Per Carton	Carton (kg)
0.8 mm Brown	22015	22115	50	20	11.7
0.9 mm Dark Blue	22025	22125	50	20	11.7
1.1 mm Grey	22035	22135	50	20	11.7
1.2 mm Black	22045	22145	50	20	11.7
1.4 mm Orange	22055	22155	50	20	11.7
1.6 mm Red	22065	22165	50	20	11.7
1.8 mm Light Blue	22075	-	50	20	11.7
2.0 mm Yellow	22085	-	50	20	11.7
2.3 mm Purple	22095	-	50	20	11.7
2.5 mm Olive	22105	-	50	20	11.7

Ordering Information - Rotor Rain® Plus 1/2" Male Thread

Nozzle Size & Colour	Order Code Standard Spinner	Order Code w/Deflector Spinner	Pack Quantity	Packs Per Carton	Carton (kg)
0.8 mm Brown	21935	21975	50	18	12.3
0.9 mm Dark Blue	21945	21985	50	18	12.3
1.1 mm Grey	21955	21995	50	18	12.3
1.2 mm Black	21965	22005	50	18	12.3
1.4 mm Orange	22335	22395	50	18	12.3
1.6 mm Red	22345	22405	50	18	12.3
1.8 mm Light Blue	22355	-	50	18	12.3
2.0 mm Yellow	22365	-	50	18	12.3
2.3 mm Purple	22375	-	50	18	12.3
2.5 mm Olive	22385	-	50	18	12.3

Specifications

		Rotor Rain® Plus 3/8"	Rotor Rain® Plus 1/2"
UV STABILISED MATERIALS	FRAME SPINNER NOZZLE	acetal nylon acetal	acetal nylon acetal
BASE/CONNECTION TYPE: INLET		thread 3/8" BSPM	thread 1/2" MNPT

Recommended riser tubing sizes

Install on 5 mm Micro tubing

0.8 mm Brown	0.9 mm Dk. Blue	1.1 mm Grey	1.2 mm Black	1.4 mm Orange
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Install on 10 mm or 13 mm tubing

1.6 mm Red	1.8 mm Lt. Blue	2.0 mm Yellow	2.3 mm Purple	2.5 mm Olive
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Easy turn field disassembly



Rotor Stake™ Range
5mm - Code: 40555
10mm - Code: 40515
13mm - Code: 40535

* Refer to pages
42 & 43 for
Sprinkler
Accessories.



Rotor Rain® Plus
Stake Assembly with 600 mm
Tube & Self Piercing Adaptor

Performance Chart

Nozzle Size & Colour	Pressure (kPa)	Flow (lph)	Tested at 0.2 m above ground		
			Diameter (m)	Stream Height (m)	Deflector Diameter (m)
0.8 mm Brown	100	22	3.6	0.3	
	150	27	4.6	0.4	1.6
	200	32	5.1	0.4	
	250	35	5.4	0.4	
0.9 mm Dark Blue	100	28	4.9	0.4	
	150	35	5.7	0.5	1.6
	200	41	5.9	0.5	
	250	46	6.0	0.6	
1.1 mm Grey	100	44	4.8	0.3	
	150	54	5.5	0.3	1.7
	200	62	5.9	0.4	
	250	69	6.2	0.4	
1.2 mm Black	100	52	5.7	0.4	
	150	65	6.0	0.4	2.2
	200	75	6.1	0.4	
	250	84	6.1	0.4	
1.4 mm Orange	100	70	6.0	0.4	
	150	87	6.2	0.4	2.1
	200	101	6.4	0.5	
	250	113	6.5	0.5	
1.6 mm Red	100	94	6.5	0.4	
	150	116	7.0	0.4	1.9
	200	136	7.4	0.5	
	250	151	7.7	0.4	
1.8 mm Light Blue	100	121	6.8	0.5	
	150	149	7.8	0.5	N/A
	200	173	8.1	0.5	
	250	194	8.2	0.6	
2.0 mm Yellow	100	149	8.5	0.9	
	150	184	9.9	0.9	N/A
	200	213	10.5	1.0	
	250	239	10.8	1.0	
2.3 mm Purple	100	199	8.9	0.7	
	150	247	9.9	0.7	N/A
	200	288	10.2	0.8	
	250	323	10.3	0.8	
2.5 mm Olive	100	239	9.2	0.6	
	150	291	10.5	0.8	N/A
	200	338	10.9	0.8	
	250	379	10.8	0.7	

Ordering Information - Rotor Rain® Plus Stake Assembly w/ 600 mm Tube & Adaptor

Nozzle Size & Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
0.8 mm Brown - Standard Spinner	22175	10	8	5.3
0.9 mm Dark Blue - Standard Spinner	22185	10	8	5.3
1.1 mm Grey - Standard Spinner	22195	10	8	5.3
1.2 mm Black - Standard Spinner	22205	10	8	5.3
1.4 mm Orange - Standard Spinner	22215	10	8	5.3
1.6 mm Red - Standard Spinner	22225	10	8	5.3
0.8 mm Brown w/ Deflector Spinner	22275	10	8	5.7
0.9 mm Dark Blue w/ Deflector Spinner	22285	10	8	5.7
1.1 mm Grey w/ Deflector Spinner	22295	10	8	5.7
1.2 mm Black w/ Deflector Spinner	22305	10	8	5.7
1.4 mm Orange w/ Deflector Spinner	22315	10	8	5.7
1.6 mm Red w/ Deflector Spinner	22325	10	8	5.7

Rotor Rain® Plus Pressure Compensating

The Rotor Rain® Plus Pressure Compensating sprinkler provides even sprinkler performance for all sprinklers on the same lateral line over long rows and on undulating terrain, delivering a more even application of water, fertilisers and chemicals through each sprinkler.

Features

- Pressure compensating for consistent output with varying inlet pressures.
- Aerofoil frame profile for strength and distribution uniformity.
- Snap-off deflector option for young trees.
- 21° trajectory
- Suspension hole for trellis applications.
- Colour coded bases.
- Easily disassembled for in-field maintenance.
- High grade silicone diaphragm for long service life.
- Stake assemblies includes self piercing adaptor.

NEW



Applications

Orchards and row crops where input pressure varies or terrain is undulating.



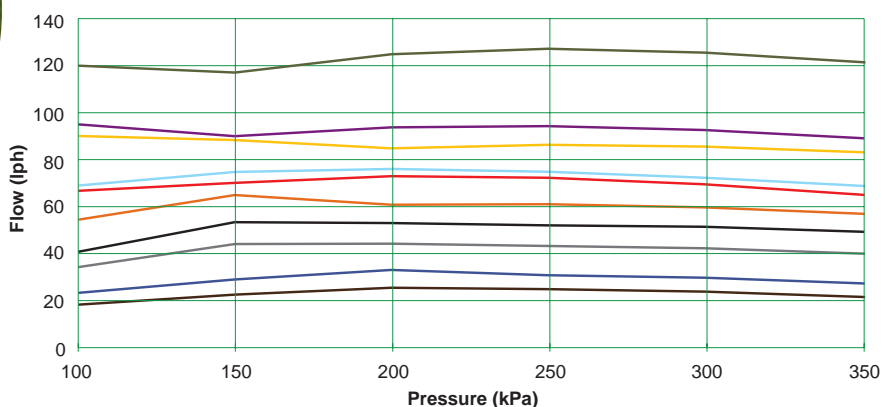
Ordering Information - Rotor Rain® Plus PC 3/8" Male Thread

Nozzle Size & Colour	Order Code Standard Spinner	Order Code w/Deflector Spinner	Pack Quantity	Packs Per Carton	Carton (kg)
0.8 mm Brown	32215	32315	50	20	11.7
0.9 mm Dark Blue	32225	32325	50	20	11.7
1.1 mm Grey	32235	32335	50	20	11.7
1.2 mm Black	32245	32345	50	20	11.7
1.4 mm Orange	32255	32355	50	20	11.7
1.6 mm Red	32265	32365	50	20	11.7
1.8 mm Light Blue	32275	32375	50	20	11.7
2.0 mm Yellow	32285	32385	50	20	11.7
2.3 mm Purple	32295	32395	50	20	11.7
2.5 mm Olive	32305	32405	50	20	11.7

Specifications

		Roto Rain® Plus 3/8"
UV STABILISED MATERIAL	FRAME SPINNER NOZZLE DIAPHRAGM	acetal nylon acetal silicone rubber
BASE/CONNECTION TYPE: INLET		thread 3/8" BSPM

Flow Rate





Rotor Rain®
Plus PC Stake
Assembly with
600 mm Tube
& Self Piercing
Adaptor



Socket Driver
for Rotor Rain® Plus

* Refer to pages 42 & 43
for Sprinkler Accessories.

Performance Chart

Nozzle Size & Base Colour	Pressure (kPa)	Flow (lph)	Tested 0.25 m above ground		
			Diameter (m)	Stream Height (m)	Deflector Diameter (m)
0.8 mm Brown PC	150	23	5.4	0.5	
	250	27	6.2	0.6	1.6
	350	26	6.2	0.6	
	400	25	5.8	0.6	
0.9 mm Dark Blue PC	150	29	6.0	0.6	
	250	34	6.6	0.7	1.7
	350	33	6.2	0.6	
	400	32	6.0	0.6	
1.1 mm Grey PC	150	44	6.0	0.6	
	250	48	7.2	0.7	2.0
	350	48	7.0	0.6	
	400	47	6.6	0.6	
1.2 mm Black PC	150	53	6.8	0.6	
	250	57	8.0	0.7	2.2
	350	56	7.6	0.7	
	400	53	7.6	0.7	
1.4 mm Orange PC	150	68	7.4	0.7	
	250	69	7.4	0.7	2.2
	350	66	7.2	0.7	
	400	63	7.0	0.7	
1.6 mm Red PC	150	77	7.4	0.7	
	250	82	7.4	0.7	2.2
	350	78	7.2	0.7	
	400	75	7.0	0.7	
1.8 mm Light Blue PC	150	77	5.2	0.5	
	250	88	6.0	0.6	2.2
	350	89	5.8	0.6	
	400	88	5.6	0.6	
2.0 mm Yellow PC	150	88	5.0	0.5	
	250	93	5.8	0.6	1.2
	350	96	6.0	0.6	
	400	96	6.0	0.6	
2.3 mm Purple PC	150	95	4.7	0.5	
	250	102	4.8	0.5	1.2
	350	102	4.8	0.5	
	400	101	4.8	0.5	
2.5 mm Olive PC	150	122	5.2	0.6	
	250	135	5.6	0.6	1.4
	350	136	5.6	0.6	
	400	135	5.6	0.6	

Ordering Information - Rotor Rain® Plus PC Stake Assembly w/ 600 mm Tube & Adaptor

Nozzle Size & Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
0.8 mm Brown - Standard Spinner	32415	10	8	5.3
0.9 mm Dark Blue - Standard Spinner	32425	10	8	5.3
1.1 mm Grey - Standard Spinner	32435	10	8	5.3
1.2 mm Black - Standard Spinner	32445	10	8	5.3
1.4 mm Orange - Standard Spinner	32455	10	8	5.3
1.6 mm Red - Standard Spinner	32465	10	8	5.3
1.8 mm Light Blue - Standard Spinner	32475	10	8	5.3
2.0 mm Yellow - Standard Spinner	32485	10	8	5.3
2.3 mm Purple - Standard Spinner	32495	10	8	5.3
2.5 mm Olive - Standard Spinner	32505	10	8	5.3
0.8 mm Brown w/ Deflector Spinner	32515	10	8	5.7
0.9 mm Dark Blue w/ Deflector Spinner	32525	10	8	5.7
1.1 mm Grey w/ Deflector Spinner	32535	10	8	5.7
1.2 mm Black w/ Deflector Spinner	32545	10	8	5.7
1.4 mm Orange w/ Deflector Spinner	32555	10	8	5.7
1.6 mm Red w/ Deflector Spinner	32565	10	8	5.7
1.8 mm Light Blue w/ Deflector Spinner	32575	10	8	5.7
2.0 mm Yellow w/ Deflector Spinner	32585	10	8	5.7
2.3 mm Purple w/ Deflector Spinner	32595	10	8	5.7
2.5 mm Olive w/ Deflector Spinner	32605	10	8	5.7

NEW
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NEW

Rotor Max™ Midi Sprinklers

Robust and reliable “spinner” sprinkler for use above and below plant foliage and with two trajectory options. Excellent sprinkler distribution patterns and performance.

Features

- Dual outlet spinner enhances performance.
- Standard model has a 25° trajectory with black coloured spinner.
- Inverted model has a 0° flat trajectory with khaki coloured spinner.
- Range includes two low flow nozzle sizes (2.0 mm & 2.4 mm).
- Easily taken apart for servicing.
- UV stabilised materials for long life.

Rotor Max™ Deflector

- Easy snap-on field fitted 180° Deflector.
- Directional ribs distribute the water evenly over the 180° pattern.
- Water is redirected by the cupped spray plate providing improved application uniformity over flat plate deflectors.



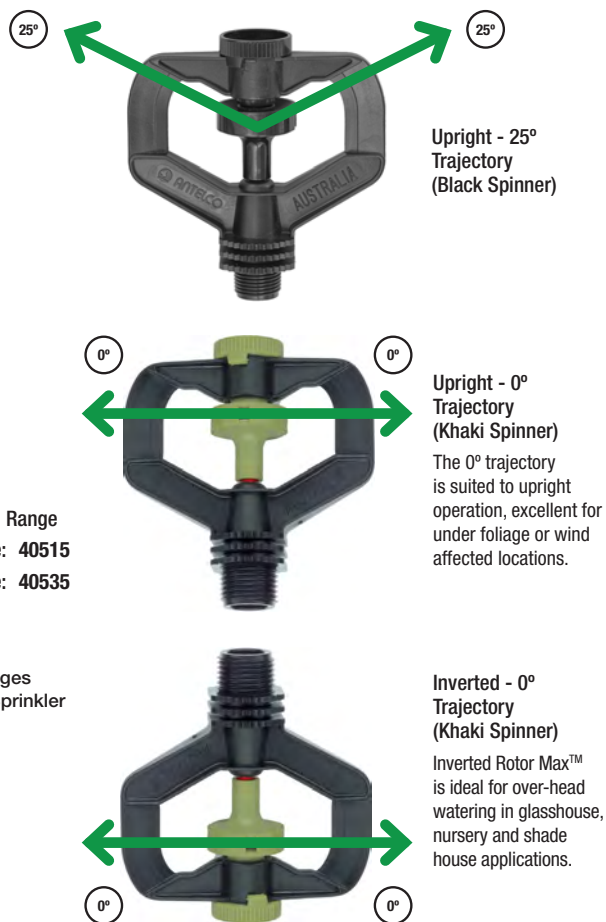
Applications

Greenhouses, vegetable row crops and under tree watering. **Accessory - Rotor Max™ Deflector:** Part circle operation for road edges, driveways and end of sprinkler rows.



Rotor Stake™ Range
10mm - Code: 40515
13mm - Code: 40535

* Refer to pages 42 & 43 for Sprinkler Accessories.



Performance Chart

Nozzle Size & Colour	Pressure (kPa)	Flow (lph)	Upright - 25° on 0.2 m Riser		Inverted - 0° on 2 m Riser
			Diameter (m)	Stream Height (m)	Diameter (m)
2.0 mm Yellow	100	145	6.8	0.7	7.2
	150	175	8.0	1.0	8.2
	200	205	9.0	1.1	9.2
	250	230	9.4	1.1	9.4
	300	255	9.8	1.2	9.6
2.4 mm Green	100	215	7.6	0.7	8.4
	150	275	9.0	1.0	9.2
	200	315	10.0	1.1	9.8
	250	345	10.2	1.1	10.2
2.8 mm Red	300	375	10.4	1.2	10.0
	100	300	11.0	0.9	11.0
	150	355	12.0	1.0	11.0
	200	400	13.0	1.2	12.0
3.2 mm Black	250	460	13.0	1.2	12.0
	300	500	13.0	1.4	12.0
	100	375	11.0	0.9	11.0
	150	460	12.0	1.0	12.0
3.8 mm Purple	200	540	13.0	1.2	13.0
	250	600	13.0	1.2	13.0
	300	660	14.0	1.3	13.0
	100	550	11.9	0.7	11.9
3.8 mm Purple	150	665	12.5	0.9	12.5
	200	775	13.8	1.0	13.0
	250	875	14.0	1.1	14.0
	300	975	13.4	1.2	13.0

Ordering Information - Rotor Max™ 3/8" Male Thread

Nozzle Size & Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
2.0 mm Yellow	21175	20	10	8.0
2.4 mm Green	21185	20	10	8.0
2.8 mm Red	21155	20	10	8.0
3.2 mm Black	21105	20	10	8.0
3.8 mm Purple	21165	20	10	8.0

Ordering Information - Rotor Max™ 1/2" Male Thread

Nozzle Size & Colour	Order Code Upright Black 25°	Order Code Inverted Khaki 0°	Pack Quantity	Packs Per Carton	Carton (kg)
2.0 mm Yellow	21075	21585	20	10	8.2
2.4 mm Green	21085	21595	20	10	8.2
2.8 mm Red	21055	21555	20	10	8.2
3.2 mm Black	21005	21505	20	10	8.2
3.8 mm Purple	21065	21565	20	10	8.2

Specifications

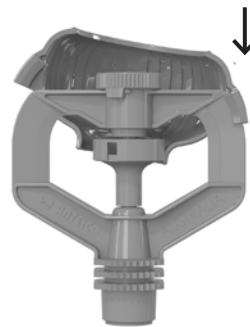
Dimensions Assembled		UV Stabilised Material		Base/Connection Type
HEIGHT	96 mm	FRAME	polypropylene	INLET thread 3/8" BSPM
WIDTH	90 mm	SPINNER	acetal	INLET thread 1/2" BSPM
WEIGHT (approx)	38 g	NOZZLE	acetal	

Ordering Information - Rotor Max™ 180° Deflector

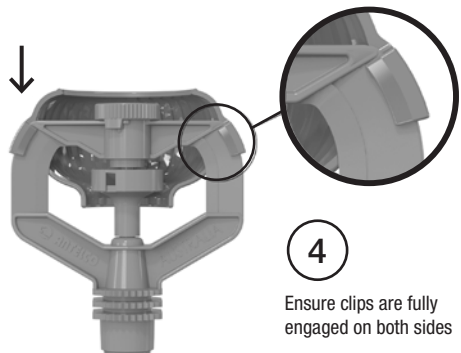
Nozzle Size & Colour	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Deflector 180°	21365	10	28	4.8



1
Align deflector vertically above sprinkler frame



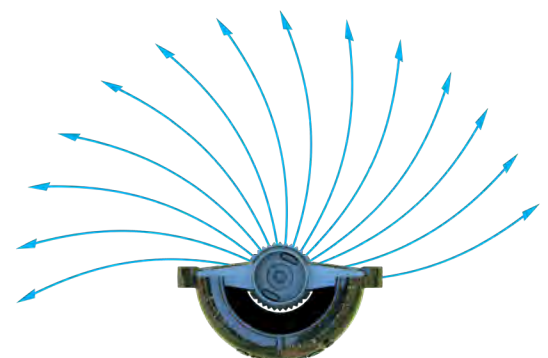
2
Slide one clip over edge of frame



4
Ensure clips are fully engaged on both sides

3
Push down on top of other clip until deflector locks into place

Rotor Max™ 180° Deflector



Sprinkler Accessories

A range of accessories to install Rotor Rain®, Rotor Max™, and other industry standard 3/8" threaded micro sprinklers.



Sprinkler Adaptor

Perfect for suspended trellis wire installations, the sprinkler adaptor is available in 5 mm, 10 mm, and 13 mm barb sizes, or pre-assembled with 4 mm ID tube in 600 mm, 900 mm, and 1200 mm tube lengths.



Rotor Stake™

Rotor Stake™ is designed for securing 3/8" threaded micro mini sprinklers. The stake includes a retaining hole to keep tube firmly in place near the stake. The tube piercing point allows for hole punch installation.



Rod Stake Sprinkler Adaptor

Ideal for 5 mm OD fibreglass or steel rod applications, available in 5 mm and 10 mm barb sizes.

Collar Pipe Sprinkler Adaptor

Designed for 20 mm uPVC or Galvanised riser installations (26.7 mm OD), this adaptor is available in 5 mm, 10 mm, and 13 mm barb sizes.



Socket Driver for Rotor Rain® Plus

Using a low speed torque controlled drill, simply slip the aluminium Socket Driver over sprinkler heads for easy installation into threaded stakes and risers.

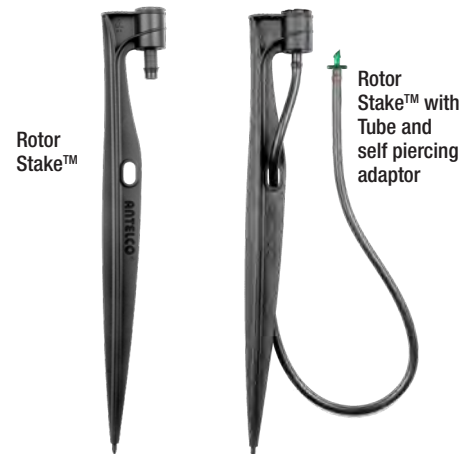
Ordering Information - Installation Tool

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Socket Driver for Rotor Rain® Plus	51905	1	180	17.2



Ordering Information - Rotor Stake™ 3/8" BSPF

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Rotor Stake™ 3/8" BSPF x 5 mm barb	40555	25	6	5.1
Rotor Stake™ 3/8" BSPF x 10 mm barb	40515	25	6	5.2
Rotor Stake™ 3/8" BSPF x 13 mm barb	40535	25	6	5.3
Rotor Stake™ 3/8" BSPF with 600 mm tube & self piercing adaptor	40675	25	4	5.9
Rotor Stake™ 3/8" BSPF with 900 mm tube & self piercing adaptor	40685	25	4	6.9
Rotor Stake™ 3/8" BSPF with 1200 mm tube & self piercing adaptor	40695	25	3	6.0



Ordering Information - Sprinkler Adaptor 3/8" BSPF

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Sprinkler Adaptor 3/8" BSPF x 5 mm barb	40755	50	40	6.8
Sprinkler Adaptor 3/8" BSPF x 10 mm barb	40715	50	34	6.7
Sprinkler Adaptor 3/8" BSPF x 13 mm barb	40735	50	30	6.2



Ordering Information - Collar Pipe Sprinkler Adaptor 3/8" BSPF

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Collar Pipe Sprinkler Adaptor x 5 mm barb	40655	50	10	5.5
Collar Pipe Sprinkler Adaptor x 10 mm barb	40615	50	10	5.6
Collar Pipe Sprinkler Adaptor x 13 mm barb	40635	50	10	5.8



Ordering Information - Rod Stake Sprinkler Adaptor 3/8" BSPF

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Rod Stake Sprinkler Adaptor 3/8" BSPF x 5 mm barb	40815	50	35	7.1
Rod Stake Sprinkler Adaptor 3/8" BSPF x 10 mm barb	40855	50	24	5.6



Ordering Information - Sprinkler Adaptor Assembly with Tube & Adaptor

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Sprinkler Adaptor Assembly 3/8" BSPF with 600 mm tube	43195	25	12	8.1
Sprinkler Adaptor Assembly 3/8" BSPF with 900 mm tube	43205	25	8	9.2
Sprinkler Adaptor Assembly 3/8" BSPF with 1200 mm tube	43215	25	8	9.5



REUZIT® Recycled Water Products

ReuZit® range of products designed for domestic and small commercial Aerobic Treatment Systems (ATS) and recycled water systems.

Features

- Low operating pressure range ideal for recycled water sump pumps.
- ReuZit® FlatSpray and ReuZit® Sprinkler have a 0° trajectory, and ReuZit® DownSpray has a 45° down spray to reduce the effect of wind.
- 400 mm flexible off-take tubing with easy insert self piercing adaptor.
- Robust stake with push point for inserting into soil.
- Lilac coloured components for easy identification of recycled water.
- All ReuZit® emitters have a large orifice to reduce risk of clogging.
- Sprinkler Assembly with 13 mm barbed take-off to suit low density poly tubing.



Applications

Distribution of aerobically treated water under trees, shrubs and ground covers in mulched areas.

NEW Ordering Information - ReuZit® DownSpray

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
DownSpray Assembly w/ 400 mm Tube & Adaptor	41095	10	15	6.9
Replacement DownSpray	19066	10	TBA	TBA

Ordering Information - ReuZit® FlatSpray

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
FlatSpray Assembly w/ 400 m Tube & Adaptor	40595	10	10	5.4
Replacement FlatSpray	20615	10	30	2.2

Ordering Information - ReuZit® Sprinkler

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Sprinkler Assembly with Stake 13 mm Inlet	40585	10	8	5.4
Replacement Sprinkler 3/8" BSPM	21665	10	20	6.2
Sprinkler 1/2" BSPM	21575	10	20	6.4
Rotor Max™ Deflector	21365	10	28	4.8

NEW



NEW

ReuZit® DownSpray
Assembly with
400 mm Tube
& Self Piercing Adaptor

ReuZit® FlatSpray
Assembly with
400 mm Tube
& Self Piercing
Adaptor



ReuZit®
Sprinkler
Assembly
with Stake
13 mm Inlet



ReuZit®
Sprinkler
1/2" BSPM



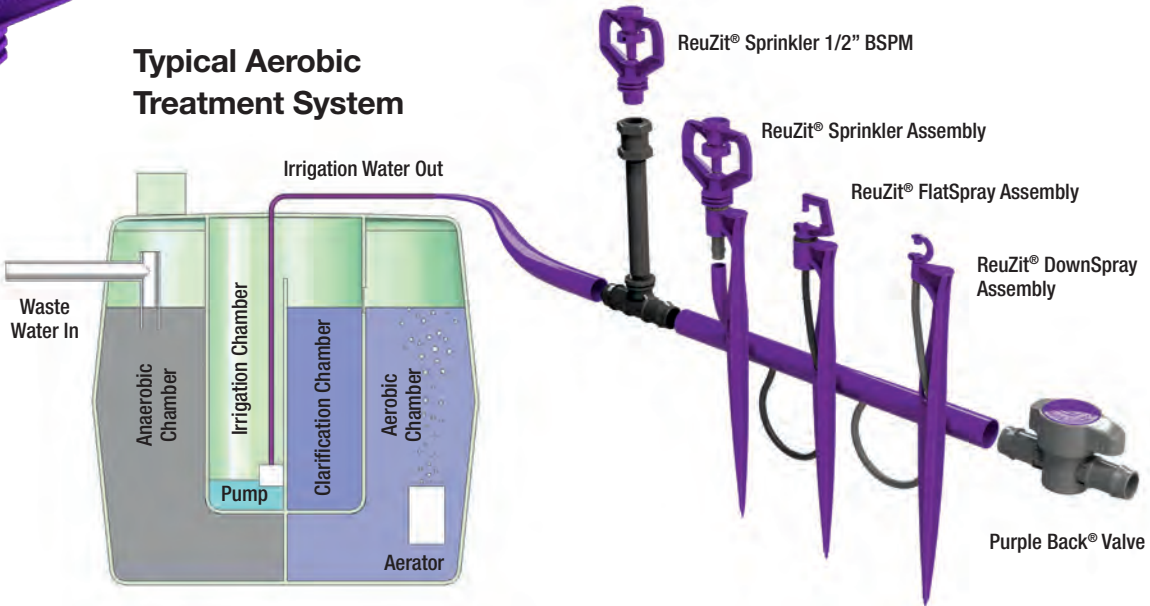
Performance Chart

Pressure (kPa)	ReuZit® DownSpray Assembly		ReuZit® FlatSpray Assembly		ReuZit® Sprinkler Assembly	
	Tested at 0.2 m above ground		Tested at 0.2 m above ground		Tested at 0.2 m above ground	
	Flow (lph)	Diameter (m)	Flow (lph)	Diameter (m)	Flow (lph)	Diameter (m)
30	70	0.5	150	1.3	275	2.6
40	85	0.5	170	1.4	335	3.1
50	96	0.6	195	1.7	380	3.4
60	105	0.6	215	2.2	420	3.9
70	113	0.6	230	2.6	455	4.3
80	121	0.6	245	2.6	490	4.5
90	129	0.6	260	2.6	520	4.6
100	136	0.7	270	2.6	550	4.7

Specifications

		DownSpray Assembly	FlatSpray Assembly	Sprinkler Assembly	Sprinkler 1/2" BSPM
UV STABILISED MATERIALS	FRAME	acetal	acetal	polypropylene	polypropylene
	NOZZLE	acetal	acetal	polypropylene	polypropylene
	DEFLECTOR	-	acetal	-	-
	SPINNER	-	-	polypropylene	polypropylene
	SPRINKLER AD	-	polypropylene	-	-
	STAKE	polypropylene	polypropylene	polypropylene	-
	TUBE	PVC	PVC	-	-
		ADAPTOR	acetal	polypropylene	-
BASE/CONNECTION TYPE:		INLET	barb 4mm	barb 4mm	barb 4mm

Typical Aerobic
Treatment System



Green Back® Valves

On/off device to control the water flow in low pressure irrigation systems.

Features

- Simple on/off operation and straight through flow.
- Operating pressure range up to 300 kPa.
- Green Back® cap for standard irrigation applications.
- Purple Back® lilac cap easily identifies recycled water - not for human consumption.
- UV stabilised materials for long life.



Green Back® Valve



Purple Back® Valve

Applications

End of line flushing and manual on/ off flow control of submain and lateral lines. Vineyards, orchards, nurseries, greenhouses, landscaping and home gardens.

Ordering Information - Green Back® Valves

Base type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Green Back® Valve 13 mm (Shank OD 12.6 mm)	45505	20	25	9.4
Green Back® Valve 14 mm (Shank OD 14.0 mm)	45575	20	25	9.7
Green Back® Valve 15 mm (Shank OD 14.6 mm)	45555	20	25	9.5
Green Back® Valve 16 mm (Shank OD 15.7 mm)	45515	20	24	9.9
Green Back® Valve 18 mm (Shank OD 17.6 mm)	45565	20	10	10.2
Green Back® Valve 19 mm (Shank OD 19.0 mm)	45525	20	10	10.3
Green Back® Valve 21 mm (Shank OD 20.8 mm)	45535	20	10	10.5
Green Back® Valve 25 mm (Shank OD 25.0 mm)	45545	20	4	7.1

Ordering Information - Purple Back® Valves

Base type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Purple Back® Valve 13 mm (Shank OD 12.6 mm)	46505	20	25	9.4
Purple Back® Valve 14 mm (Shank OD 14.0 mm)	46575	20	25	9.7
Purple Back® Valve 15 mm (Shank OD 14.6 mm)	46555	20	25	9.5
Purple Back® Valve 16 mm (Shank OD 15.7 mm)	46515	20	24	9.9
Purple Back® Valve 18 mm (Shank OD 17.6 mm)	46565	20	10	10.2
Purple Back® Valve 19 mm (Shank OD 19.0 mm)	46525	20	10	10.3
Purple Back® Valve 21 mm (Shank OD 20.8 mm)	46535	20	10	10.5
Purple Back® Valve 25 mm (Shank OD 25.0 mm)	46545	20	4	7.1

Specifications - Green Back® and Purple Back® Valves

		13 mm, 14 mm 15 mm, 16 mm	18 mm, 19 mm 21 mm	25 mm
UV STABILISED MATERIAL	BODY	acetal	acetal	acetal
	STEM	polypropylene	polypropylene	polypropylene
	COVER	acetal	acetal	acetal
	SEAL	-	silicone rubber	-
BASE/CONNECTION TYPE		barb	barb	barb



Threaded Valves

Threaded flow control valves for low pressure irrigation.

Features

- 1/2", 3/4" or 1" male threaded inlet.
- Simple on/off operation and straight through flow.
- Operating pressure range up to 300 kPa.
- Green Back® cap for standard irrigation applications.
- Purple Back® lilac cap easily identifies recycled water - not for human consumption.
- UV stabilised materials for long life.



Threaded Purple Back® Valve



Threaded Green Back® Valve

Applications

Irrigation from rain tanks, non-pressurised containers or pressurised systems up to 300 kPa.

Ordering Information - Green Back® Threaded Valves Male Thread

Base type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Green Back® Valve 13mm Barb x 1/2"	49005	20	22	9.8
Green Back® Valve 14mm Barb x 1/2"	49015	20	22	9.9
Green Back® Valve 15mm Barb x 1/2"	49025	20	22	9.8
Green Back® Valve 16mm Barb x 1/2"	49035	20	22	10.3
Green Back® Valve 13 mm Barb x 3/4"	46605	20	22	10.4
Green Back® Valve 14 mm Barb x 3/4"	46675	20	22	10.6
Green Back® Valve 16 mm Barb x 3/4"	46615	20	21	10.9
Green Back® Valve 18 mm Barb x 3/4"	46685	20	9	10.2
Green Back® Valve 19 mm Barb x 3/4"	46695	20	9	10.2
Green Back® Valve 21 mm Barb x 3/4"	46595	20	9	10.3
Green Back® Valve 25 mm Barb x 1"	46625	20	4	7.7

NEW

Ordering Information - Purple Back® Threaded Valves Male Thread

Base type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Purple Back® Valve 13 mm Barb x 1/2"	49105	20	22	9.8
Purple Back® Valve 14 mm Barb x 1/2"	49115	20	22	9.9
Purple Back® Valve 15 mm Barb x 1/2"	49125	20	22	9.8
Purple Back® Valve 16 mm Barb x 1/2"	49135	20	22	10.3
Purple Back® Valve 13 mm Barb x 3/4"	46705	20	22	10.4
Purple Back® Valve 14 mm Barb x 3/4"	46775	20	22	10.6
Purple Back® Valve 16 mm Barb x 3/4"	46715	20	21	10.9
Purple Back® Valve 18 mm Barb x 3/4"	46785	20	9	10.2
Purple Back® Valve 19 mm Barb x 3/4"	46795	20	9	10.2
Purple Back® Valve 21 mm Barb x 3/4"	46805	20	9	10.3
Purple Back® Valve 25 mm Barb x 1"	46815	20	4	7.7

NEW

Specifications - Threaded Valves

1/2" MNPT			3/4" BSPM		1" BSPM
			13 mm, 14 mm 15 mm, 16 mm	18 mm, 19 mm 21 mm	25 mm
UV STABILISED MATERIAL	BODY STEM COVER SEAL	acetal polypropylene acetal -	acetal polypropylene acetal -	acetal polypropylene acetal silicone rubber	acetal polypropylene acetal -
BASE/ CONNECTION TYPE	1/2" MNPT x barb		3/4" BSPM x barb		1" BSPM x barb



eZyvalve™4

A compact valve box with 4 internal solenoid valves available in models to suit either 24 Vac or 9 Vdc latching irrigation controller. The eZyvalve™4 provides a trouble-free way to distribute water to micro irrigation systems and small to medium lawn areas.

Features

- Pre-assembled with no internal pipe connections.
- High strength UV stabilised materials.
- Includes cable seal and wire connectors.
- Water, dust and pest resistant.
- Textured non-slip lid with o-ring seal and stainless steel screws.
- 3/4" threaded inlet and outlet connections.
- Easy to connect to existing garden taps using Braided Hose accessory.

Performance Chart

Flow Rate (lpm)	Pressure Loss (kPa)
10	30
15	63
20	108
25	165
30	231

Ordering Information - eZyvalve™4

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
eZyvalve™4 - 24 Vac Solenoids 3/4"	16605	1	10	11.5
eZyvalve™4 - 9 Vdc Latching Solenoids 3/4"	16625	1	10	12.9

Ordering Information - Accessories

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Braided Hose 1000 mm x 3/4" BSPF	90603	1	40	16.1
Tap Adaptor 1" BSPF x 3/4" BSPM	45825	25	30	12.1

Ordering Information - Repair Kit

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
eZyvalve™4 Diaphragm Kit	16604	1	125	-

Specifications

Dimensions Packaged	Connection Type
LENGTH 105 mm DEPTH 182 mm WIDTH 182 mm WEIGHT (approx.) - 24 Vac 1075 g WEIGHT (approx.) - 9 Vdc Latching 1150 g	INLET 3/4" BSPM tapered OUTLET 3/4" BSPM parallel x 4



Applications

Landscape, home gardens, lawn areas, greenhouses and nurseries. Above and below ground installation.



eZyvalve™4 - 24Vac

The eZyvalve™4 comes pre-assembled with no internal pipe connections for fast and easy DIY installation and is made from high strength UV stabilised materials.

The 24Vac model requires connection to a 24Vac irrigation controller.



Operating Specifications - 24Vac

FLOW RANGE	1 lpm -30 lpm
PRESSURE RANGE - 24 Vac	50 kPa - 750 kPa
AMBIENT TEMPERATURE	2° C - 60° C
ELECTRICAL - 24 Vac	24 Vac, inrush current 320 mA, holding current 260 mA at 50 Hz



eZyvalve™4 - 9Vdc

The eZyvalve™4 is a compact valve box with 4 internal solenoid valves designed to provide a trouble-free way to distribute water to a micro irrigation system. The 9Vdc model requires connection to a 4 station battery powered DC irrigation controller.

For non-potable water supply, a filtration device is recommended. Contact your local irrigation contractor / supplier for further advice.

When designing your irrigation system, refer to your local building codes for plumbing and electrical requirements.



Operating Specifications - 9Vdc

FLOW RANGE	1 lpm -30 lpm
PRESSURE RANGE - 9 Vdc	25 kPa - 750 kPa
AMBIENT TEMPERATURE	2° C - 60° C
ELECTRICAL - 9 Vdc	Latch 9 Vdc, inrush current 1200 mA



Tap Adaptor
1" BSPF x 3/4" BSPM
Code: 45825



Braided Hose
Code: 90603

Pressure Regulators

A range of low, medium, and high flow pressure regulators designed to stabilise outlet pressure and optimise emitter performance.

Features

- Available in 3 flow options: Low Flow, Low to Medium & High Flow.
- High-strength, chemical-resistant ABS construction for durability.
- Stainless steel spring for long wear.
- Low to Medium Flow regulators have minimal moving parts and a pressure protection mechanism to respond to system back pressure.
- High Flow regulators withstand higher flows with sturdy EPDM diaphragm construction.

Applications

Drip, spray and sprinkler systems in landscape applications. Ideally connected to taps, valves, tap timers and irrigation valves in a manifold system.



Pressure Regulator
Low Flow



Specifications

	Pressure Regulator Low Flow	Pressure Regulator Low to Med Flow	Pressure Regulator High Flow
OUTLET PRESSURE	70, 100 & 175 kPa	70, 100, 140, 205, 275 & 345 kPa	205, 275 & 345 kPa
OPERATING PRESSURE	0 - 690 kPa	0 - 1105 kPa	70 - 830 kPa
FLOW RANGE	0.4 - 30 lpm	0 - 45 lpm	3.8 - 132 lpm
CONNECTION TYPE	INLET 3/4" BSPF OUTLET 3/4" BSPM	INLET 3/4" BSPF OUTLET 3/4" BSPF	INLET 3/4" BSPF OUTLET 3/4" BSPF
CONNECTION TYPE			INLET 1" BSPF OUTLET 1" BSPF

Installation

- The Pressure Regulators must always be installed downstream from all shut-off valves, regardless of the application.
- Regulators should be installed with the vent hole unobstructed.
- Do not use sealing compound (solvent cement). If needed, teflon tape may be used to seal for leaks.

Ordering Information - Pressure Regulator Low Flow

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)	
3/4" BSPF Inlet x 3/4" BSPM Outlet - 70 kPa	73035	10	42	14.5	NEW
3/4" BSPF Inlet x 3/4" BSPM Outlet - 100 kPa	49505	10	42	14.5	
3/4" BSPF Inlet x 3/4" BSPM Outlet - 175 kPa	49535	10	42	14.5	

* Operating Pressure 0 - 690 kPa

* Flow Range 0.4 - 30 lpm

Ordering Information - Pressure Regulator Low to Med Flow

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)	
3/4" BSPF Inlet x 3/4" BSPF Outlet - 70 kPa	73305	10	TBA	TBA	NEW
3/4" BSPF Inlet x 3/4" BSPF Outlet - 100 kPa	73315	10	TBA	TBA	
3/4" BSPF Inlet x 3/4" BSPF Outlet - 140 kPa	73325	10	TBA	TBA	
3/4" BSPF Inlet x 3/4" BSPF Outlet - 205 kPa	73335	10	TBA	TBA	
3/4" BSPF Inlet x 3/4" BSPF Outlet - 275 kPa	73345	10	TBA	TBA	
3/4" BSPF Inlet x 3/4" BSPF Outlet - 345 kPa	73355	10	TBA	TBA	

* Operating Pressure 0 - 1105 kPa

* Flow Range 0 - 45 lpm

Ordering Information - Pressure Regulator High Flow

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)	
3/4" BSPF Inlet x 3/4" BSPF Outlet - 205 kPa	74135	10	TBA	TBA	NEW
3/4" BSPF Inlet x 3/4" BSPF Outlet - 275 kPa	74145	10	TBA	TBA	
3/4" BSPF Inlet x 3/4" BSPF Outlet - 345 kPa	74155	10	TBA	TBA	
1" BSPF Inlet x 1" BSPF Outlet - 205 kPa	74105	10	TBA	TBA	
1" BSPF Inlet x 1" BSPF Outlet - 275 kPa	74115	10	TBA	TBA	
1" BSPF Inlet x 1" BSPF Outlet - 345 kPa	74125	10	TBA	TBA	

* Operating Pressure 70 - 830 kPa

* Flow Range 3.8 - 132 lpm



Pressure Regulator
Low to Medium Flow



Pressure
Regulator
High Flow



Micro Fittings

A range of fittings and adaptors to use with quality micro tubing in low pressure irrigation systems. A range of sizes suit various tube configurations.

Features

- Single barb configurations for connecting to micro or supply tube.
- “Quick” thread or 4 mm 10-32 UNF thread for connecting to Rigid Risers or Micro Stakes.
- A range of adaptors to suit various configurations.
- New Self Piercing 4 mm Joiner for easy insertion into lateral tubing.

NEW



Applications

Home gardens, landscaping, aquariums and glasshouses.

Ordering Information - Adaptors

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Adaptor 4 mm (F) x 1/2" Female Thread	41015	25	80	7.6
Adaptor 4 mm (F) x 1/2" Male Thread	41075	25	90	7.3
Adaptor 4 mm (F) x 3/8" BSWM Thread	41025	100	130	10.6
Adaptor 4 mm 'Quick' Thread x Thread	40925	100	260	14.4
Adaptor 4 mm Barb x Thread	40945	100	280	15.6
Adaptor 4.5 mm Barb x Thread	40995	100	250	15.3

Ordering Information - Joiners

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Joiner 4 mm Barb	40145	100	245	14.0
Joiner 4.5 mm Barb	40195	100	240	17.0
Joiner 4 mm x 5 mm Barb	40135	100	210	17.0
Joiner 4 mm Self Piercing Barb	40935	100	245	14.0

Ordering Information - Elbows

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Elbow 4 mm Barb	40245	50	490	14.0
Elbow 4.5 mm Barb	40295	50	490	13.5

Ordering Information - Tees

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Tee 4 mm Barb	40345	50	315	11.8
Tee 4.5 mm Barb	40395	50	300	13.0

Ordering Information - Crosses

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Cross 4 mm Barb	40445	50	240	11.1
Cross 4.5 mm Barb	40495	50	220	12.1



Adaptor 4 mm (F) x 1/2" Female Thread



Adaptor 4 mm (F) x 1/2" Male Thread



Adaptor 4 mm (F) x 3/8" BSWM Thread



Adaptor 'Quick' Thread



Joiner Self Piercing

NEW



Adaptor Barb x Thread



Elbow



Joiner



Tee



Cross

Micro Fittings

A range of repair plugs, valves, and micro tee to use with quality micro tubing in low pressure irrigation systems. A range of sizes suit various tube configurations.

Features

- Vari-Flow™ valves simple on/off operation controls water flow in micro irrigation systems.
- Tidy Bow™ Clip On Elbow clips over 7 mm OD micro tubing removing the need for cutting tube and additional micro fittings. Redirects tubing without kinking tube or flow restriction.
- Goof Plugs to repair wrongly punched holes.
- Micro tee connects 4 mm ID micro tube to lateral line.



Applications

Home gardens, landscaping and glasshouses.



Tidy-Bow™ Clip On Elbow

Ordering Information - Vari-Flow™ Valve

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Vari-Flow™ Valve barb 4.5 mm Black	42155	50	90	11.5
Vari-Flow™ Valve thread 4.0 mm Black	42115	50	90	11.5
Vari-Flow™ Valve thread 4.0 mm Green/Yellow	42125	50	90	11.5

Ordering Information - Tidy-Bow™ Clip On Elbow

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Tidy-Bow™ Clip On Elbow	45345	50	120	10.2

Ordering Information - Goof (Repair) Plugs

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Goof (Repair) Plugs - Rack of 10	42325	10	250	7.2

Ordering Information - Reducing Tee to Micro Tube

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
13 mm line x 4 mm branch	47765	25	56	10.1
14 mm (16 O.D. Dripline) x 4 mm branch	47465	25	48	9.4

Ordering Information - Micro Tube Tap Adaptor

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Micro Tube Tap Adaptor with Washer 3/4" BSPF x 4.5 mm barb	41085	25	TBA	TBA

Specifications - Vari-Flow™ Valve

		4.5 mm Barb	4.0 mm Thread
UV STABILISED MATERIALS	BODY KNOB	acetal HDPE	acetal HDPE
BASE/CONNECTION TYPE		barb 4.5 mm	10-32 UNF thread 4 mm



Goof (Repair) Plugs



Vari-Flow™ Barb x Barb



Reducing Tee to Micro Tube



Vari-Flow™ Thread x Thread



Micro Tube Tap Adaptor with Washer

Xpando® Take-Off Director

Threaded Xpando® Take-Off Directors allow direct connection of threaded sprinkler risers to HDPE and uPVC lateral pipework.

Features

- Xpando® Take-Off Director features a collapsible barb that prevents pullout and minimises grommet damage during installation.
- 1/2" BSPM thread connection for riser.
- Large 19 mm Take-Off provides minimal friction losses.
- Capo® Grommet with internal step combines with Xpando® interference barb to hold off-take firmly in place.
- Use precision 22 mm Xpando® Drill Bit to create clean round holes of the correct size to ensure reliable sealing.









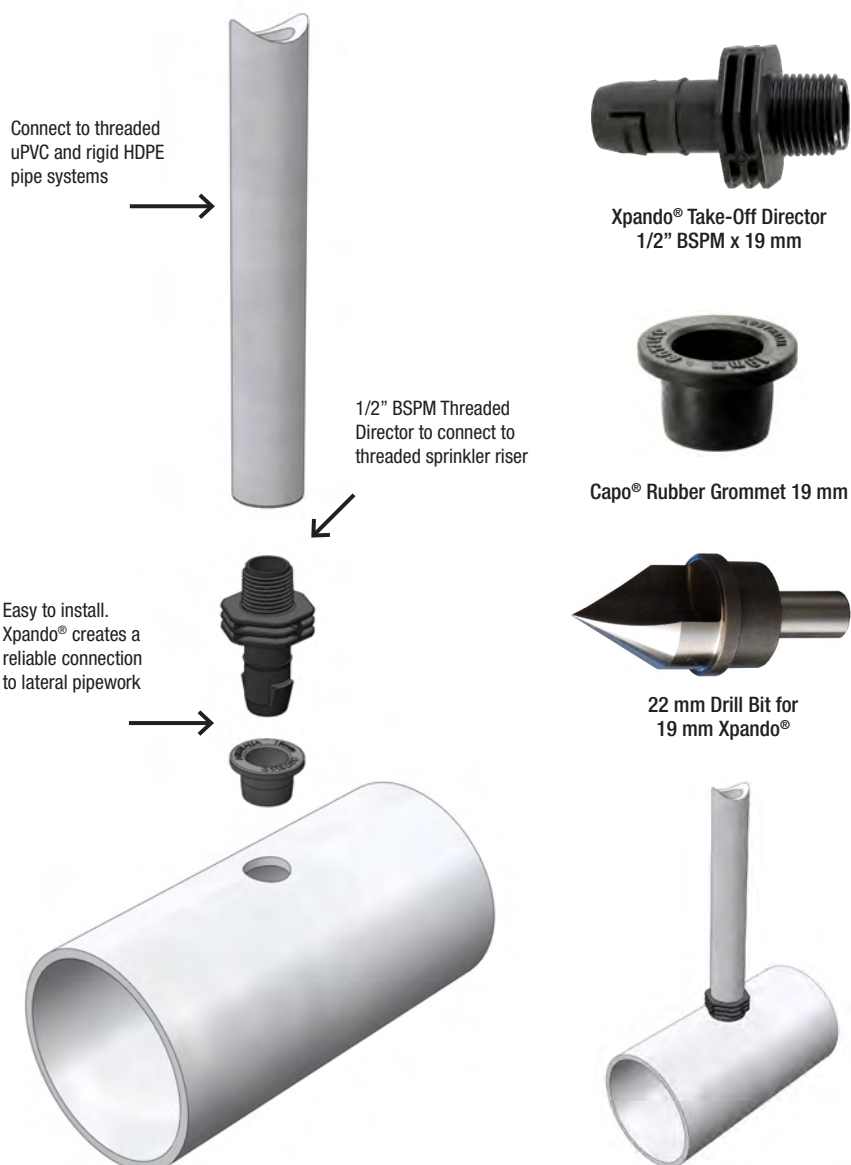
Applications

Lateral Take-Off fitting for sprinkler riser installations. Provides a more economical method than the traditional tapping saddle method.

Ordering Information - Xpando® Director

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Xpando® Director 1/2" BSPM x 19 mm Take-Off	45985	20	20	10.1
Capo® Rubber Grommet 19 mm	45755	100	18	10.4
22 mm Drill Bit for 19 mm Xpando®	51865	1	36	3.6

Xpando® Director	Min. ID	Min. Wall Thickness	Max. Wall Thickness	Capo® Grommet	Hole Size Drill Bit
					
Xpando® Director 19 mm	50 mm	1.5 mm	6.0 mm	19 mm	22 mm



Xpando® Take-Off Fittings

Antelco Xpando® Take-Off Adaptors are a proven method of connecting low pressure irrigation tubes and drip lines from HDPE and uPVC pipes and sub mains with a Capo® Grommet.

Features

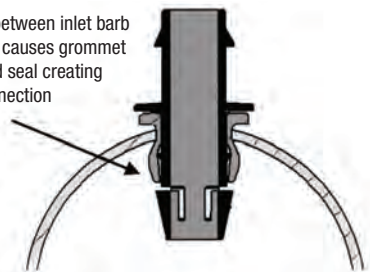
- Easy installation saves time and costs.
- Innovative Xpando® Take-Off Adaptor with collapsible barb prevents pullout and reduces grommet damage during the installation process.
- Capo® Grommet with internal step combines with Xpando® interference barb to hold off-take firmly in place.
- UV stabilised materials for long life.
- Use precision Xpando® Drill Bits to create clean round holes of the correct size to ensure reliable sealing.



Applications

Agricultural, horticultural, vineyard and landscape applications.

Interference between inlet barb and grommet causes grommet to expand and seal creating a reliable connection



Ordering Information - Xpando® Take-Off Adaptors







Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Xpando® 10 mm inlet x 13 mm Take-Off	45715	25	65	8.9
Xpando® 10 mm inlet x 14 mm Take-Off (16 OD)	45875	25	65	9.8
Xpando® 10 mm inlet x 15 mm Take-Off (17 OD)	45885	25	56	9.2
Xpando® 13 mm inlet x 13 mm Take-Off	45605	25	60	8.7
Xpando® 13 mm inlet x 14 mm Take-Off (16 OD)	45595	25	60	9.6
Xpando® 13 mm inlet x 15 mm Take-Off (17 OD)	45615	25	48	8.2
Xpando® 16 mm inlet x 16 mm Take-Off (18 OD)	45635	25	35	8.8
Xpando® 16 mm inlet x 18 mm Take-Off (20 OD)	45585	25	32	8.3
Xpando® 19 mm inlet x 18 mm Take-Off (20 OD)	45995	25	26	8.4
Xpando® 19 mm inlet x 19 mm Take-Off	45665	25	26	9.0
Xpando® 19 mm inlet x 21 mm Take-Off (23 OD)	45675	25	24	9.3
Xpando® 19 mm inlet x 25 mm Take-Off (27 OD)	45685	25	18	8.0

Ordering Information - Capo® Rubber Grommets

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Capo® Rubber Grommet 10 mm	45725	100	40	12.7
Capo® Rubber Grommet 13 mm	45735	100	40	10.5
Capo® Rubber Grommet 16 mm	45745	100	24	10.8
Capo® Rubber Grommet 19 mm	45755	100	18	10.4

Ordering Information - Xpando® Drill Bits

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
14 mm Drill Bit for 10 mm Xpando®	51835	1	36	1.8
16 mm Drill Bit for 13 mm Xpando®	51845	1	36	2.2
19 mm Drill Bit for 16 mm Xpando®	51855	1	36	2.7
22 mm Drill Bit for 19 mm Xpando®	51865	1	36	3.6

Xpando® Take -Off Adaptor	Min. ID	Min. Wall Thickness	Max. Wall Thickness	Capo® Grommet	Hole Size Drill Bit
					
Xpando® 10 mm x 13 mm	25 mm	1.5 mm	3.6 mm	10 mm (curved)	14 mm
Xpando® 10 mm x 14 mm					
Xpando® 10 mm x 15 mm					
Xpando® 13 mm x 13 mm	40 mm	1.5 mm	2.3 mm	13 mm	16 mm
Xpando® 13 mm x 14 mm					
Xpando® 13 mm x 15 mm					
Xpando® 16 mm x 16 mm	50 mm	1.5 mm	3.6 mm	16 mm	19 mm
Xpando® 16 mm x 18 mm					
Xpando® 19 mm x 18 mm	50 mm	1.5 mm	6.0 mm	19 mm	22 mm
Xpando® 19 mm x 19 mm					
Xpando® 19 mm x 21 mm					
Xpando® 19 mm x 25 mm					



Xpando® Take-Off Adaptor



Capo® Rubber Grommet



Drill Bit for Xpando®

Take-Off Fittings

Antelco Take-Off fittings provide an easy to install method of connecting low pressure irrigation tubing and drip lines to LDPE supply lines.

Features

- Reduce time and installation costs.
- 8 mm x 13 mm elbow suitable for installation from 19 mm LDPE tube.
- 10 mm inlet fittings suitable for installation from 25 mm LDPE tube.
- Take-Off elbows are ideal for installing drip lines at any angle to the supply line ensuring parallel lateral lines in sub surface or above ground drip systems.

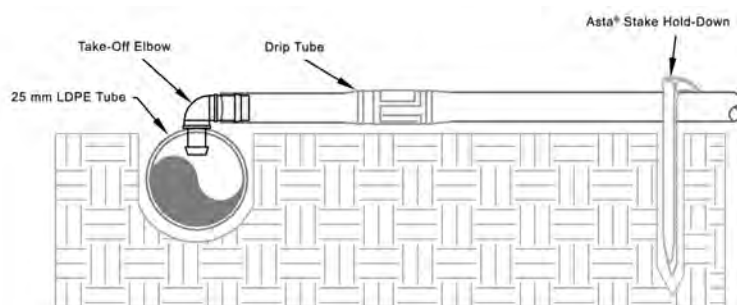
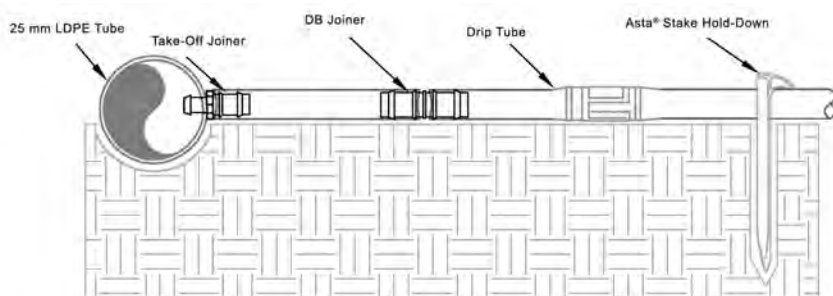


Applications

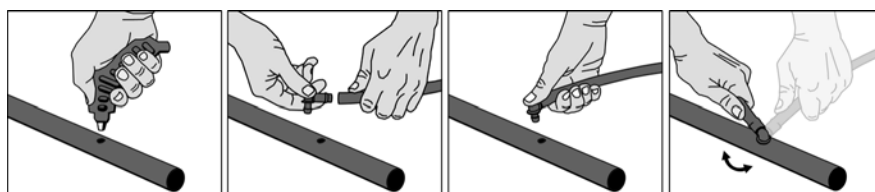
Sub surface and above ground drip irrigation systems and landscape watering applications.

Ordering Information - Take-Off Fittings

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Take-Off Joiner 10 mm x 13 mm	46405	25	120	11.6
Take-Off Joiner 10 mm x 14 mm	46395	25	108	12.1
Take-Off Elbow 10 mm x 13 mm	46415	25	90	12.0
Take-Off Elbow 10 mm x 14 mm	46435	25	85	12.0
Take-Off Elbow 8 mm x 13 mm	46425	25	100	12.4



Installation



- To install, use an 8 mm hole punch for Take-Off Elbow 8 mm x 13 mm.
- Use a 10 mm hole punch for 10 mm x 13 mm & 10 mm x 14 mm models.



Take-Off Joiner 10 mm x 13 mm



Take-Off Elbow 10 mm x 13 mm



Take-Off Joiner 10 mm x 14 mm



Take-Off Elbow 10 mm x 14 mm



Take-Off Elbow 8 mm x 13 mm

Directors, End Plugs & Saddles

Used with low density polyethylene (LDPE) tubing in low pressure irrigation systems.

Features

- Directors adapt tubing to valves and female threaded fittings.
- End Sleeves allow tubing to be flushed and reconnected.
- End Plugs terminate tube ends.
- Saddle Clamps used to secure tubing.
- Compatible with Australian and International tube sizes.
- UV stabilised materials for long life.
- Operating pressure range up to 300 kPa.



Applications

Home gardens, landscaping and commercially installed irrigation systems.



End Plug



Director



End Sleeve



Saddle Clamp



Saddle Clip

Ordering Information - Directors

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Director 1/2" BSPM x 13 mm	45255	25	45	6.5
Director 3/4" BSPM x 13 mm	45265	25	35	6.9
Director 1" BSPM x 13 mm	45275	25	20	6.9
Director 1/2" BSPM x 19 mm	45285	25	40	6.8
Director 3/4" BSPM x 19 mm	45295	25	30	6.7
Director 1" BSPM x 19 mm	45305	25	18	6.7
Director 3/4" BSPM x 25 mm	45325	25	23	7.0
Director 1" BSPM x 25 mm	45315	25	15	6.2
Director 1" BSPM x 32 mm	45335	25	12	6.1

Ordering Information - End Plugs

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
End Plug 13 mm	44555	25	110	7.1
End Plug 19 mm	44565	25	50	7.0
End Plug 25 mm	44575	25	24	7.0
End Plug 32 mm	44585	25	16	5.7

Ordering Information - End Sleeve

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
End Sleeve 13 mm	44605	25	40	5.4

Ordering Information - Saddle Clips

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Saddle Clip 4 mm with nail	45355	100	170	18.2
Saddle Clip 13 mm with nail	45365	100	56	18.7
Saddle Clip 19 mm with nail	45375	100	26	15.9

Ordering Information - Saddle Clamps

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Saddle Clamp 4 mm	45395	100	90	9.3
Saddle Clamp 13 mm	45405	100	45	7.2
Saddle Clamp 19 mm	45415	100	26	6.6

Tap Fittings

A range of quick connect fittings specifically designed to connect polyethylene irrigation tubes to taps and Snap-On fittings. Connect to tap adaptors, tap timers, taps, manifold and multi outlet distributors.

Features

- Simple to use ergonomic design.
- Reducing Bush Assembly universal fittings to suit 3/4" or 1" taps.
- Tap Adaptor suits Snap-On connections.
- Santoprene Washer included in Nuts & Tails, Tap Adaptors, Reducing Bush Assemblies and Blank Nuts.
- UV stabilised materials for long life.



Applications

Home gardens and landscaping applications.

Ordering Information - Nuts and Tails

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Nut and Tail with Washer 3/4" BSPF x 13 mm	44005	25	34	10.3
Nut and Tail with Washer 3/4" BSPF x 14 mm	44065	25	34	10.6
Nut and Tail with Washer 3/4" BSPF x 16 mm	44055	25	34	10.9
Nut and Tail with Washer 3/4" BSPF x 19 mm	44015	25	30	9.4
Nut and Tail with Washer 1" BSPF x 13 mm	44025	25	27	10.3
Nut and Tail with Washer 1" BSPF x 19 mm	44035	25	23	9.6
Nut and Tail with Washer 1" BSPF x 25 mm	44045	25	18	9.0
NEW Micro Tube Tap Adaptor with Washer 3/4" BSPF x 4.5 mm barb	41085	25	TBA	TBA

Ordering Information - Blank Nuts

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Blank Nut with Washer 3/4" BSPF	44505	25	50	10.6
Blank Nut with Washer 1" BSPF	44515	25	36	10.3

Ordering Information - Washers

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Washer suits 3/4" Nut&Tail, Snap-On Tap Adaptor	44075	100	115	9.5
Washer suits 1" Nut&Tail, Snap-On Tap Adaptor	44085	100	70	8.7



Ordering Information - Tap Adaptors

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Snap-On Tap Adaptor with Washer 3/4" BSPF	45775	25	38	10.0
Snap-On Tap Adaptor with Washer 1" BSPF	45785	25	30	9.8
Tap Adaptor Reducing Bush 1" BSPM x 3/4" BSPF	45815	25	44	9.3
Tap Adaptor 1" BSPF x 3/4" BSPM	45825	25	30	12.0
Micro Tube Tap Adaptor with Washer 3/4" BSPF x 4.5 mm barb	41085	25	TBA	TBA

Ordering Information - Reducing Bush Assembly

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
1" BSPM x 3/4" BSPF with Washer and Nut & Tail 1" BSPF x 13 mm	44145	25	18	10.1
1" BSPM x 3/4" BSPF with Washer and Nut & Tail 1" BSPF x 19 mm	44155	25	18	10.5
1" BSPM x 3/4" BSPF with Washer and Snap-On Tap Adaptor 1" BSPF	44175	25	18	10.9

Ordering Information - Snap-On Connectors

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Snap-On Connector x 13 mm barb	45465	25	35	12.2
Snap-On Connector x 16 mm barb	45475	25	32	12.0
Snap-On Connector x 19 mm barb	45485	25	28	10.9

Ordering Information - Snap-On Joiners

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Snap-On Joiner 13 mm barb	45455	25	100	8.9
Snap-On Joiner 19 mm barb	45445	25	48	8.0



Reducing Bush Assembly with Washer & Snap-On Adaptor.
Code: 44175



Reducing Bush Assembly with Washer & Nut and Tail.
Code: 44145



Tap Adaptor with Washer BSPF x BSPM.
Code: 45825



Snap-On Joiner



NEW

Micro Tube Tap Adaptor with Washer.
Code: 41085



3/4" BSP Tap

Tap Adaptor - 45825
1" BSPF x 3/4" BSPM
* Required for 1" BSP Tap



Pressure Regulator
175 kPa - 49535
3/4" BSPF Inlet x
3/4" BSPM Outlet



Snap-On Adaptor - 45775
3/4" BSPF Inlet



Snap-On Filter
80 Mesh Screen



13 mm barb - 44405



14 mm barb - 44435



16 mm barb - 44415

19 mm barb - 44425



Ratchet Clamp

* Refer to page 70 for ordering information and size chart.



Tap Adaptor Reducing Bush with Washer.
Code: 45815

Filters

Screen Filters trap foreign particles in the water and reduce risk of clogging of emitters.

Features

- In-Line model with barbed inlet and outlet.
- Snap-On model for direct connection to standard tap adaptors.
- 80 mesh screen filter.
- Easily taken apart for cleaning.
- Effective compact filters with minimal flow losses.



Applications

For low pressure micro irrigation systems.

Ordering Information - In-Line Filters 80 Mesh Screen

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
In-Line Filter 13 mm barb	44355	25	14	10.9
In-Line Filter 14 mm barb	44395	25	14	10.2
In-Line Filter 16 mm barb	44365	25	12	9.9
In-Line Filter 19 mm barb	44375	25	6	7.4
In-Line Filter 25 mm barb	44445	10	8	7.0

Ordering Information - Snap-On Filters 80 Mesh Screen

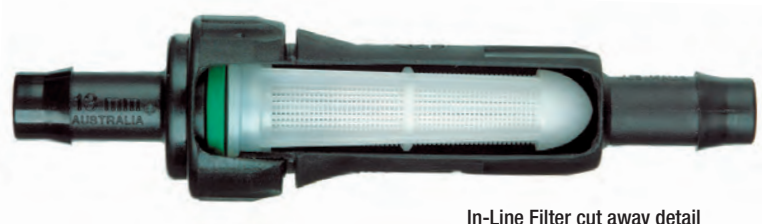
Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Snap-On Filter 13 mm barb	44405	25	10	9.5
Snap-On Filter 14 mm barb	44435	25	10	9.5
Snap-On Filter 16 mm barb	44415	25	10	9.6
Snap-On Filter 19 mm barb	44425	25	6	8.5

Specifications - In-Line Filter

Dimensions Assembled	13, 14 16 mm	19 mm	25 mm	Material	Connection type
LENGTH	132 mm	175 mm	239 mm	TAIL INLET acetal	Inlet barb 13, 14, 16, 19 mm
WIDTH	33 mm	40 mm	41 mm	BODY & NUT polypropylene	Outlet barb 13, 14, 16, 19 mm, 25mm
WEIGHT (approx.)	28 g	43 g	78 g	WASHER TPE SCREEN HDPE	

Specifications - Snap-On Filter

Dimensions Assembled	13, 14 16 mm	19 mm	Material	Connection type
LENGTH	134 mm	175 mm	BODY Snap-On inlet acetal	Inlet Snap-On Connector
WIDTH	33 mm	40 mm	SLEEVE polypropylene	Outlet barb 13, 14, 16, 19 mm
WEIGHT (approx.)	35 g	51 g	BODY & NUT polypropylene WASHER TPE SCREEN HDPE	



Joiners

A range of polypropylene joiners designed to control, disperse, slow and divert water through a low pressure irrigation system. Used in conjunction with low density poly (LDPE) tubing.

Features

- Tapered entry on all barbed fittings for ease of installation.
- Range suits Metric tube sizes and common drip tube sizes
- UV stabilised materials for long life.
- Operating pressure range up to 300 kPa.



Ordering Information - Joiners

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Joiner 13 mm	44705	25	90	7.0
Joiner 15 mm	46005	25	60	6.6
Joiner 18 mm	46015	25	50	7.0
Joiner 19 mm	44715	25	40	6.1
Joiner 21 mm	46025	25	36	5.9
Joiner 25 mm	44735	25	20	6.3
Joiner 32 mm	44745	25	10	4.7

Ordering Information - Reducing Joiners

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Reducing Joiner 16 mm x 15 mm	46055	25	60	7.2
Reducing Joiner 19 mm x 13 mm	44805	25	50	6.2
Reducing Joiner 19 mm x 15 mm	46065	25	50	6.6
Reducing Joiner 19 mm x 18 mm	46075	25	44	6.3
Reducing Joiner 21 mm x 19 mm	46085	25	40	5.9
Reducing Joiner 25 mm x 13 mm	44765	25	32	6.8
Reducing Joiner 25 mm x 19 mm	44775	25	26	5.9
Reducing Joiner 32 mm x 25 mm	46095	25	12	4.6



Joiner



Reducing Joiner

Applications

Home gardens, landscaping and commercially installed irrigation systems.

Accessories: Ratchet Clamps and Stainless Steel Clamp.



Elbows

A range of polypropylene Elbows and nylon Corner Elbows designed to control, disperse, slow and divert water through a low pressure irrigation system. Used in conjunction with low density poly (LDPE) tubing.

Features

- Tapered entry on all barbed fittings for ease of installation.
- Threaded Elbows for sprinkler systems.
- Range suits Metric tube sizes and common drip tube sizes.
- UV stabilised materials for long life.
- Operating pressure range up to 300 kPa.



Elbow



Threaded Elbow Male



Threaded Elbow Female



Threaded Corner Elbow Male



Threaded Corner Elbow Female

Ordering Information - Elbows

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Elbow 13 mm	44835	25	75	6.7
Elbow 19 mm	44865	25	36	5.6
Elbow 25 mm	44875	25	14	5.8
Elbow 32 mm	44825	25	8	5.1
Threaded Elbow 13 mm x 1/2" BSPF	44955	25	28	8.5
Threaded Elbow 19 mm x 1/2" BSPF	44965	25	24	7.7
NEW Threaded Elbow 19 mm x 3/4" BSPF	45025	25	16	10.1
Threaded Elbow 25 mm x 1/2" BSPF	44975	25	16	6.7
Threaded Elbow 13 mm x 1/2" BSPM	44885	25	34	6.4
Threaded Elbow 19 mm x 1/2" BSPM	44905	25	36	5.8
Threaded Elbow 19 mm x 3/4" BSPM	44915	25	25	5.5
Threaded Elbow 25 mm x 1/2" BSPM	44925	25	17	6.2
Threaded Elbow 25 mm x 3/4" BSPM	44935	25	14	6.2
Reducing Elbow 16 mm x 15 mm	46155	25	50	7.4
Reducing Elbow 19 mm x 15 mm	46165	25	36	5.9
Reducing Elbow 19 mm x 18 mm	46175	25	35	6.3
Reducing Elbow 21 mm x 19 mm	46185	25	30	5.9

Ordering Information - Corner Elbows

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
NEW Threaded Corner Elbow 19 mm x 1/2" BSPF	45015	10	26	6.8
Threaded Corner Elbow 19 mm x 1/2" BSPM	45005	10	28	6.9
NEW Threaded Corner Elbow 19 mm x 3/4" BSPM	44985	10	26	6.7
NEW Threaded Corner Elbow 25 mm x 3/4" BSPM	44895	10	22	5.9



Applications

Home gardens, landscaping and commercially installed irrigation systems.

Accessories:
Ratchet Clamps
and Stainless
Steel Clamp.

Tees & Crosses

A range of polypropylene Tees and Crosses designed to control, disperse, slow and divert water through a low pressure irrigation system. Used in conjunction with low density polyethylene (LDPE) tubing.

Features

- Tapered entry on all barbed fittings for ease of installation.
- Threaded Tees for sprinkler systems.
- Range suits Metric tube sizes and common drip tube sizes.
- UV stabilised materials for long life.
- Operating pressure range up to 300 kPa.



Applications

Home gardens, landscaping and commercially installed irrigation systems. **Accessories:** Ratchet Clamps and Stainless Steel Clamp.

Ordering Information - Tees

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Tee 13 mm	45035	25	48	6.3
Tee 19 mm	45065	25	22	5.3
Tee 25 mm	45075	25	8	4.8
Tee 32 mm	45085	25	4	3.7
Reducing Tee 19 mm line x 13 mm branch	45105	25	24	5.2
Reducing Tee 21 mm line x 19 mm branch	46255	25	18	5.4
Reducing Tee 25 mm line x 13 mm branch	45115	25	11	5.3
Reducing Tee 25 mm line x 19 mm branch	45125	25	10	5.3
Reducing Tee 32 mm line x 25 mm branch	45135	25	5	4.0
Threaded Tee 13 mm x 1/2" BSPF	45155	25	18	6.9
Threaded Tee 19 mm x 1/2" BSPF	45165	25	15	6.3
Threaded Tee 19 mm x 3/4" BSPF	45055	25	12	8.3
Threaded Tee 25 mm x 1/2" BSPF	45175	25	10	5.8
Threaded Tee 13 mm x 1/2" BSPM	45185	25	25	6.5
Threaded Tee 19 mm x 1/2" BSPM	45205	25	22	5.2
Threaded Tee 19 mm x 3/4" BSPM	45215	25	16	4.6
Threaded Tee 25 mm x 1/2" BSPM	45225	25	10	5.4
Threaded Tee 25 mm x 3/4" BSPM	45235	25	9	5.4
Increasing Tee 15 mm line x 16 mm branch	46305	25	27	7.1
Increasing Tee 15 mm line x 19 mm branch	46315	25	24	5.8
Increasing Tee 18 mm line x 19 mm branch	46325	25	20	5.5

NEW

Ordering Information - Crosses

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Cross 13 mm	44635	25	26	4.2
Cross 19 mm	44645	25	12	4.1
Cross 25 mm	44655	25	8	3.9

NEW

NEW



Tee



Threaded Tee Female



Threaded Tee Male



Cross



Double Barb DB Fittings™

The DB range of purpose designed quality acetal fittings provides high retention in low pressure poly (LDPE) tubing for long-term reliability of connections.

Features

- Sharp edged barbs create reliable sealing.
- Engineering grade UV stabilised acetal plastic for increased strength and long service life
- Operating pressure range up to 300 kPa.
- The space between double barbs allows placement of Antelco Ratchet Clamp's or Stainless Steel Clamps for extra security.



Applications

Vineyard and other agricultural applications. Ideal for trellis and suspended irrigation systems.



DB Reducing Elbow



DB Elbow



DB Joiner



DB Reducing Joiner

Ordering Information - DB Joiners

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
13 mm	47005	25	90	11.0
14 mm (16 O.D.)	47015	25	72	10.2
15 mm (17 O.D.)	46975	25	64	10.2
16 mm	47025	25	56	9.5
17 mm (20 O.D.)	47815	25	50	9.8
18 mm (20 O.D.)	47035	25	50	9.8
19 mm	46985	25	40	8.8
21 mm (22/23 O.D.)	47045	25	34	8.6
25 mm	46995	25	20	7.2

Ordering Information - DB Reducing Joiners

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
13 mm x 14 mm I.D. (16 O.D.)	47845	25	72	10.0
16 mm x 14 mm I.D. (16 O.D.)	47075	25	60	9.7
18 mm x 14 mm I.D. (16 O.D.)	47085	25	56	10.2
19 mm x 13 mm	47055	25	54	9.9
19 mm x 14 mm I.D. (16 O.D.)	47095	25	50	9.6
19 mm x 15 mm I.D. (17 O.D.)	47125	25	50	9.8
19 mm x 17 mm I.D. (20 O.D.)	47855	25	45	9.3
19 mm x 18 mm I.D. (20 O.D.)	47155	25	40	8.5
19 mm x 21 mm I.D. (22/23 O.D.)	47185	25	36	8.8
25 mm x 13 mm	47065	25	32	8.7
25 mm x 14 mm I.D. (16 O.D.)	47105	25	32	9.4
25 mm x 15 mm I.D. (17 O.D.)	47135	25	28	8.0
25 mm x 16 mm	47145	25	28	8.1
25 mm x 18 mm I.D. (20 O.D.)	47175	25	26	7.8
25 mm x 19 mm	47195	25	26	7.9
25 mm x 21 mm I.D. (22/23 O.D.)	46965	25	24	7.7

Ordering Information - DB Elbows

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
13 mm	47205	25	75	10.7
14 mm (16 O.D.)	47215	25	54	9.8
15 mm (17 O.D.)	47375	25	50	9.6
16 mm	47225	25	42	8.9
18 mm (20 O.D.)	47235	25	36	9.1
19 mm	47265	25	32	8.7
21 mm (22/23 O.D.)	47245	25	24	7.9
25 mm	47255	25	14	6.7

Ordering Information - DB Reducing Elbows

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
16 mm x 14 mm (16 O.D.)	47275	25	48	9.5
19 mm x 15 mm (17 O.D.)	47305	25	40	9.4
19 mm x 18 mm (20 O.D.)	47325	25	34	8.9



Range suits lateral tube and dripline.

Size options:

- 13 mm - Suits 13 mm I.D. tube
- 14 mm - Suits nominal 14 mm I.D & 16 mm O.D. tube
- 15 mm - Suits nominal 15 mm I.D & 17 mm O.D. tube
- 16 mm - Suits nominal 16 mm I.D & 18 mm O.D. tube
- 18 mm - Suits nominal 18 mm I.D & 20 mm O.D. tube
- 19 mm - Suits nominal 19 mm I.D. tube
- 21 mm - Suits nominal 21 mm I.D & 22/23 mm O.D. tube
- 25 mm - Suits nominal 25 mm I.D & 27 mm O.D. tube



DB Tee



DB Increasing Tee



DB Reducing Tee



DB Reducing Tee to Micro Tube

Ordering Information - DB Tees

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
13 mm	47405	25	48	10.4
14 mm (16 O.D.)	47415	25	30	8.1
15 mm (17 O.D.)	47395	25	28	7.9
16 mm	47425	25	24	7.5
18 mm (20 O.D.)	47435	25	22	8.1
19 mm	47605	25	18	7.1
21 mm (22/23 O.D.)	47445	25	16	7.7
25 mm	47455	25	10	6.8

Ordering Information - DB Increasing Tees

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
14 mm (16 O.D.) x 16 mm branch	47475	25	26	7.6
14 mm (16 O.D.) x 19 mm branch	47485	25	26	8.2
15 mm (17 O.D.) x 19 mm branch	47505	25	26	8.6
18 mm (20 O.D.) x 19 mm branch	47525	25	20	7.6

Ordering Information - DB Reducing Tees

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
13 mm line x 4 mm branch	47765	25	56	10.1
14 mm (16 O.D.) x 4 mm branch	47465	25	48	9.4
19 mm line x 13 mm branch	47535	25	22	7.9
19 mm line x 14 mm branch (16 O.D.)	47755	25	22	8.2
21 mm (22/23 O.D.) x 19 mm branch	47555	25	16	7.2
25 mm line x 13 mm branch	47585	25	13	7.3
25 mm line x 14 mm branch (16 O.D.)	47695	25	13	7.4

Ordering Information - DB Director 1/2" Male Thread

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
1/2" MNPT x 13 mm	48035	25	58	11.5
1/2" MNPT x 14 mm	48015	25	56	11.5
1/2" MNPT x 15 mm	48025	25	50	10.6
1/2" MNPT x 16 mm	48045	25	50	10.7

Ordering Information - DB End Plugs

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
13 mm	47685	25	120	12.3
14 mm (16 O.D.)	47615	25	100	11.7
16 mm	47625	25	72	10.2
18 mm (20 O.D.)	47635	25	60	9.9
19 mm	47665	25	56	10.3
21 mm (22/23 O.D.)	47645	25	40	8.4



DB Director



DB End Plug

Brown Dripline DB Fittings™

Brown Double Barb DB Fittings™ are acetal fittings for high retention and long-term reliable connections in low-pressure (LDPE) tubing. The 14 mm brown fittings are ideal for 16 O.D. brown dripline.

Features

- Double barb for increased retention.
- Operating pressures up to 300 kPa.
- Sharp-edged barbs for secure connection.
- Engineering grade UV stabilised Acetal plastic for long life.
- The space between double barbs allows placement of Antelco Ratchet Clamp's or Stainless Steel Clamps for extra security.



Applications

Suitable for sub surface and above ground drip irrigation systems and landscape applications. Suitable for vineyards, orchards, nurseries and commercial landscapes.

Ordering Information - Brown DB Joiner

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
14 mm (suits 16 O.D. tube)	60005	25	72	11.0

Ordering Information - Brown DB Elbow

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
14 mm (suits 16 O.D. tube)	60015	25	54	10.0

Ordering Information - Brown DB Tee

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
14 mm (suits 16 O.D. tube)	60025	25	30	9.0
Dripline Tee 17 mm x 1/2" MNPT	DT1403-017	50	20	9.2

Ordering Information - Brown DB End Plug

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
14 mm (suits 16 O.D. tube)	60035	25	100	11.0

Ordering Information - Brown DB Director

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
1/2" MNPT x 14 mm (suits 16 O.D. tube)	60045	25	56	11.0

Ordering Information - Clamps

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Ratchet Clamp #17	44345	100	45	11.8
Stainless Steel Clamp 17.8 (14.6-17.8mm)	60045	50	35	5.6



Brown DB Joiner



Brown DB End Plug



Brown DB Tee



Brown DB Elbow



Dripline Tee 17 mm x 1/2"



Brown DB Director

Green Dripline ST Fittings™

Super Tough ST Fittings™ are manufactured from high strength engineering grade nylon to provide improved resistance to impact and loading in high stress installations.

Features

- Tapered entry on all barbed fittings for ease of installation.
- Sizes suit most popular dripline tubing; 17 O.D., 20 O.D. & 22/23 O.D. drip tubes.
- Models to connect 19 mm LDPE to popular drip line tubing.
- Operating pressure range up to 300 kPa.
- UV stabilised material for long field life.



Applications

Vineyard and other agricultural applications. Ideal for trellis and suspended irrigation systems. **Accessories:** Ratchet Clamps and Stainless Steel Clamp.

Ordering Information - ST Joiners

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
15 mm (suits 17 O.D. tube)	61005	25	60	8.2
18 mm (suits 20 O.D. tube)	61015	25	50	8.4
21 mm (suits 22/23 O.D. tube)	61025	25	36	7.3

Ordering Information - ST Reducing Joiners

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
19 mm x 15 mm (suits 17 O.D. tube)	61035	25	50	8.0
19 mm x 18 mm (suits 20 O.D. tube)	61045	25	44	7.6
19 mm x 21 mm (suits 22/23 O.D. tube)	61055	25	40	7.3

Ordering Information - ST Reducing Elbows

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
19 mm x 15 mm (suits 17 O.D. tube)	61065	25	36	7.5
19 mm x 18 mm (suits 20 O.D. tube)	61075	25	35	7.9
19 mm x 21 mm (suits 22/23 O.D. tube)	61085	25	30	7.2

Ordering Information - ST Reducing Tees

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
21 mm line x 19 mm Branch (suits 22/23 O.D. Dripline)	61095	25	18	6.5

Ordering Information - ST Increasing Tees

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
15 mm line x 19 mm Branch (suits 17 O.D. Dripline)	61105	25	24	7.1
18 mm line x 19 mm Branch (suits 20 O.D. Dripline)	61115	25	20	6.7



ST Joiner



ST Reducing Joiner


ST
Reducing
Elbow


ST Reducing Tee



ST Increasing Tee

Stainless Steel Clamps

Stainless Steel Clamps are a compact range of clamps to suit all Antelco fittings. The innovative design allows one clamp to suit multiple tube sizes.

Features

- Stamped size for easy identification.
- Easy installation using a range of crimping tools.
- Robust interlocking design.
- Screwless one piece clamp.
- 7mm clamp width for secure seal.
- StepLess® design overlaps on the inner circumference of the clamp eliminating steps and providing a full 360° clamping force.



Applications

Vineyards, agriculture & commercial irrigation and landscape applications. Suits lateral tubing, dripline tube and LDPE pipe.

Description	Clamp Range	Suits Antelco Fittings
Stainless Steel Clamp 14.5	12.0-14.5 mm	10 mm
Stainless Steel Clamp 17.8	14.6-17.8 mm	13mm 14 mm 15mm
Stainless Steel Clamp 21.0	17.8-21.0 mm	16 mm 17 mm
Stainless Steel Clamp 24.1	20.9-24.1 mm	17 mm 18 mm 19 mm
Stainless Steel Clamp 25.6	22.4-25.6 mm	21 mm
Stainless Steel Clamp 30.1	26.9-30.1 mm	25 mm
Stainless Steel Clamp 31.6	28.4-31.6 mm	25 mm
Stainless Steel Clamp 38.5	35.4-38.6 mm	32 mm

* Confirm tube specifications with tubing manufacturer.

Ordering Information - Retail Ready Packs (Packs of 10)

Type	Clamp Range	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Stainless Steel Clamp 14.5 (12.0-14.5 mm)		70567	10	30	1.0
Stainless Steel Clamp 17.8 (14.6-17.8 mm)		70577	10	30	1.2
Stainless Steel Clamp 21.0 (17.8-21.0 mm)		70587	10	30	1.3
Stainless Steel Clamp 24.1 (20.9-24.1 mm)		70597	10	30	1.4
Stainless Steel Clamp 25.6 (22.4-25.6 mm)		70607	10	25	1.2
Stainless Steel Clamp 30.1 (26.9-30.1 mm)		70647	10	25	1.3
Stainless Steel Clamp 31.6 (28.4-31.6 mm)		70617	10	25	1.3
Stainless Steel Clamp 38.5 (35.4-38.6 mm)		70627	10	25	2.0

* Retail ready packaging available in tear-off cartons for easy shelf display.

Ordering Information - Commercial Packs (Packs of 50)

Type / Clamp Range	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Stainless Steel Clamp 14.5 (12.0-14.5 mm)	70565	50	35	4.5
Stainless Steel Clamp 17.8 (14.6-17.8 mm)	70575	50	35	5.6
Stainless Steel Clamp 21.0 (17.8-21.0 mm)	70585	50	30	5.3
Stainless Steel Clamp 24.1 (20.9-24.1 mm)	70595	50	25	5.0
Stainless Steel Clamp 25.6 (22.4-25.6 mm)	70605	50	24	5.0
Stainless Steel Clamp 30.1 (26.9-30.1 mm)	70645	50	20	4.7
Stainless Steel Clamp 31.6 (28.4-31.6 mm)	70615	50	15	3.5
Stainless Steel Clamp 38.5 (35.4-38.6 mm)	70625	50	12	4.4

Ordering Information - Projects (Loose product)

Type / Clamp Range	Order Code	Quantity Per Carton	Carton (kg)
Stainless Steel Clamp 14.5 (12.0-14.5 mm)	70568	3500	8.5
Stainless Steel Clamp 17.8 (14.6-17.8 mm)	70578	2500	7.6
Stainless Steel Clamp 21.0 (17.8-21.0 mm)	70588	2000	6.8
Stainless Steel Clamp 24.1 (20.9-24.1 mm)	70598	1500	5.7
Stainless Steel Clamp 25.6 (22.4-25.6 mm)	70608	1500	6.2
Stainless Steel Clamp 30.1 (26.9-30.1 mm)	70647	1200	5.4
Stainless Steel Clamp 31.6 (28.4-31.6 mm)	70618	1000	4.5
Stainless Steel Clamp 38.5 (35.4-38.6 mm)	70628	700	5.0

Ordering Information - Crimping Tools

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Dawn Crimpers 200 mm (8")	CT108	1	50	19.0
Oetiker Compound Action Pincers	70638	1	1	3.0



Compound Action Pincers



Dawn Industries Crimpers



Ratchet Clamps

Ratchet Clamps secure low density polyethylene (LDPE) tube to a wide range of fittings.

Features

- Smooth edges allow assembly by hand.
- Range of sizes to suit most (LDPE) tube connections.
- Sharp serrated teeth provide secure lock and firmly hold tube to fitting.
- Can be twisted and unclamped if required.
- Sizes available to suit dripline tubing.
- Improved ratcheting action and ability to fit to a trellis wire.
- Ratchet Clamps stamped for easy identification.



Applications

Home gardens and landscaping applications.



Retail Ready Packaging



Ratchet Clamp



Ordering Information - Ratchet Clamps - Retail Packs

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
13 mm Ratchet Clamp #15	44307	15	30	1.2
19 mm Ratchet Clamp #22	44317	15	25	1.3

* Retail ready packaging available in tear-off cartons for easy shelf display.

Ordering Information - Ratchet Clamps - Commercial Packs

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
13 mm Ratchet Clamp #15	44305	100	50	12.4
Ratchet Clamp #17	44345	100	45	11.8
16 mm Ratchet Clamp #18	44335	100	45	11.1
Ratchet Clamp #20	44295	100	40	11.1
19 mm Ratchet Clamp #22	44315	100	35	10.6
Ratchet Clamp #23	44285	100	32	10.6
25 mm Ratchet Clamp #28	44325	100	16	10.1

Ordering Information - Ratchet Clamps - Projects (Loose product)

Type	Order Code	Quantity Per Carton	Carton (kg)
13 mm Ratchet Clamp #15	44308	5500	13.7
Ratchet Clamp #17	44348	5000	12.7
16 mm Ratchet Clamp #18	44338	5000	12.2
Ratchet Clamp #20	44298	4500	12.1
19 mm Ratchet Clamp #22	44318	4000	11.9
Ratchet Clamp #23	44288	3500	11.3
25 mm Ratchet Clamp #28	44328	1750	10.8

	Suits ID Poly	Tube OD Range	Suits OD Dripline
13 mm Ratchet Clamp #15	13 mm	15 - 16 mm	15 mm
14 mm Ratchet Clamp #17	14 mm	16 - 18 mm	16 - 17 mm
16 mm Ratchet Clamp #18	16 mm	17 - 19 mm	18 mm
18 mm Ratchet Clamp #20	18 mm	19 - 21 mm	20 mm
19 mm Ratchet Clamp #22	19 mm	21 - 23 mm	22 mm
21 mm Ratchet Clamp #23	21 mm	22 - 24 mm	23 mm
25 mm Ratchet Clamp #28	25 mm	27 - 30 mm	27 mm

Hold Down & Locating Stakes

Hold Down & Locating Stakes for restraining and positioning tubing in micro irrigation systems.

Features

- Asta® Clip stake locates and secures micro polyethylene tubing (up to 7mm OD).
- Asta® Hold Down stake locates and secures polyethylene tubing (up to 22 mm OD).
- Locating Drip Stake dual barb connects 3 & 4 mm tubing allowing for accurate positioning directly above root zone.
- Locating Drip Stake is compatible with Antelco SPEC Drip™ or CETA® Barbed Outlet (see pages 12-15).
- UV stabilised materials for long life.



Applications

Securing drip and micro irrigation tubing in home gardens, landscaping, and agricultural installations.

Ordering Information - Asta® Clip Stake

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Asta® Clip Stake	43595	25	100	11.8

Ordering Information - Asta® Hold-Down Stake

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Asta® Hold-Down Stake	43615	25	25	10.0

Ordering Information - Locating Drip Stake **NEW**

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Locating Drip Stake (suits 3mm/4mm tube)	43605	25	TBA	TBA



Asta®
Clip
Stake

Locating
Drip
Stake

Asta®
Hold-Down
Stake

Asta® Stakes & Rigid Risers

The Asta® Stake range provides a variety of solutions for stabilising the components of micro irrigation systems.

Features

- Asta® Stakes suitable for plasticised PVC and polyethylene tubing and Rigid Risers (6.9 mm OD).
- Asta® Stake Assemblies suitable for most micro spray and micro sprinkler installations with 4 mm threaded inlets.
- UV stabilised materials for long life.
- Asta® Stake Adaptor for rigid connection of emitters using flexible tube in Asta® Stakes.



Ordering Information - Asta® Stakes

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Asta® Stake 200 mm	40885	25	28	9.9
Asta® Stake 310 mm	40875	25	20	10.8
Asta® Stake 420 mm	40895	25	12	9.1
Asta® Stake 530 mm	40905	25	10	9.5

Ordering Information - Asta® Stake Adaptor

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Asta® Stake Adaptor 4 mm (F) x 4.5 mm barb	41005	100	120	12.4

Ordering Information - Asta® Stake Assemblies

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Asta® Stake Assembly w/ 300 mm off-take tube	43685	25	19	11.8
Asta® Stake Assembly w/ 600 mm off-take tube	43695	25	14	12.3

Ordering Information - Rigid Risers

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
200 mm w/ 'Quick' Thread Adaptor	43125	100	26	12.6
300 mm w/ 'Quick' Thread Adaptor	43135	100	18	13.8
450 mm w/ 'Quick' Thread Adaptor	43145	100	11	12.8

NEW Ordering Information - Tube w/ Self Piercing Adaptor (Not Shown)

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
600 mm tube w/ Adaptor	43185	25	TBA	TBA
900 mm tube w/ Adaptor	43255	25	TBA	TBA
1200 mm tube w/ Adaptor	43265	25	TBA	TBA

Applications

Asta® Stakes for rigid riser stability; Asta® Stake Assemblies for home gardens and landscape applications.



Micro Stakes & Wire Stakes

Micro Stakes and Wire Stakes provide a solution for positioning of micro sprays for landscapes and orchards. Wire Stake Assemblies come with 914mm tube. Micro Stakes are available as a plain stake or fitted with differing lengths of tube to suit most installations.

Features

- Tube piercing point on each Micro Stake tip allows creation of holes in laterals, removing the need for a separate installation tool.
- Retaining hole in Micro Stake to align and support offtake tubing.
- Galvanised Wire Stake assembly incorporates shut-off clip to stop flow.
- UV stabilised materials for long life.



Applications

Landscape and agricultural orchard applications.

Ordering information - Micro Stakes - Commercial Packs

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Micro Stake 4 mm barb inlet	40825	25	8	5.9
Micro Stake w/ 400 mm Tube and Adaptor	40835	25	6	6.0
Micro Stake w/ 500 mm Tube and Adaptor	40784	25	6	8.0
Micro Stake w/ 600 mm Tube and Adaptor	40705	25	5	5.9

Ordering information - Micro Stakes - Projects (Loose product)

Type	Order Code	Quantity Per Carton	Carton (kg)
Micro Stake 4 mm barb inlet	40828	250	6.6
Micro Stake w/ 400 mm Tube and Adaptor	40838	250	7.1
Micro Stake w/ 500 mm Tube and Adaptor	40788	250	9.9
Micro Stake w/ 600 mm Tube and Adaptor	40708	250	6.0

Ordering Information - Galvanised Rod Wire Stake Assembly

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
NEW Galvanised Wire Stake Assembly 300mm Rod w/ 914mm Tube & Adaptor	43735	25	12	9.2



DripMate® Tool

The Antelco DripMate® Tool is a versatile micro irrigation tool designed to simplify the installation of a variety of Antelco emitters. The DripMate® Tool also serves as a handy emitter removal tool for effortless maintenance.

Features

- Holds self piercing joiners to connect micro tubing and grips and supports joiner/tube assembly for insertion into laterals.
- Compatible with a wide range of Antelco drippers and emitters for easy installation.
- Hole punch for creating holes in lateral tubing.
- Leverage claw for removing barbed products from laterals.
- Socket for gripping CETA® and PC Shrubbler® caps for disassembly.
- Includes a hole for the removal of micro spray jet caps for inspection and cleaning.

Applications

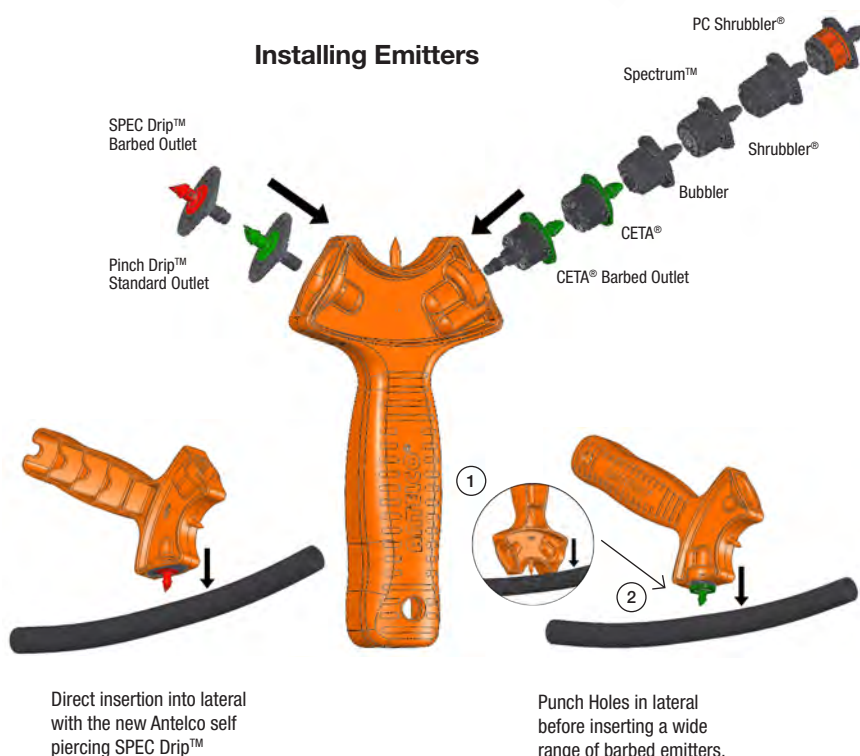
For installing micro irrigation systems by home gardeners, contractors and professionals.



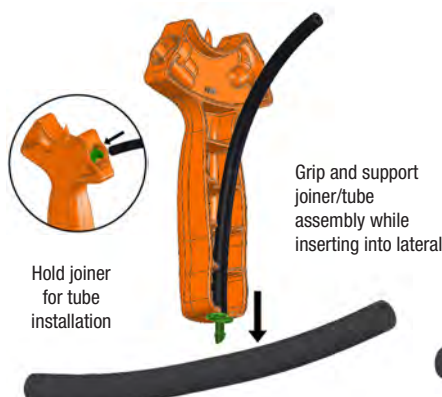
Ordering Information - DripMate® Tool

Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
DripMate® Tool	70025	1	TBA	TBA

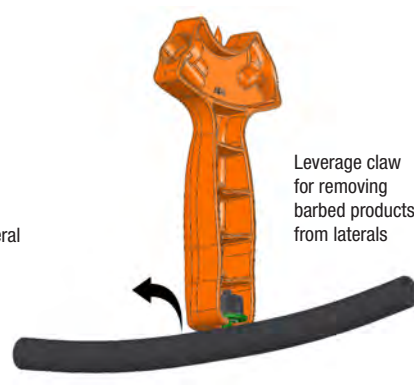
Installing Emitters



Installing Joiners & Tube Assmeby



Removing Emitters



Installation Tools

Tools to assist in the installation of micro irrigation systems.

Features

- 2 in 1 Punch & Cutter is designed for cutting CVT and LDPE tubing up to 19 mm (21 mm OD) and punching holes into tubing for emitters and fittings.
- 2 in 1 Punch & Cutter comes pre-packaged in ready-to-hang retail pack.
- Socket Driver is an aluminum assembly tool for quick and easy installation of Rotor Rain® Plus and Rotor Rain® sprinklers into stakes and risers.
- Key Punch™ creates holes in tubing for inserting emitters. The sleeve assists in installing hexagonal based jets and the hole aids removal of jet caps for cleaning.



Applications

For installing micro irrigation systems by home gardeners, contractors and professionals.

Ordering Information - Installation Tools

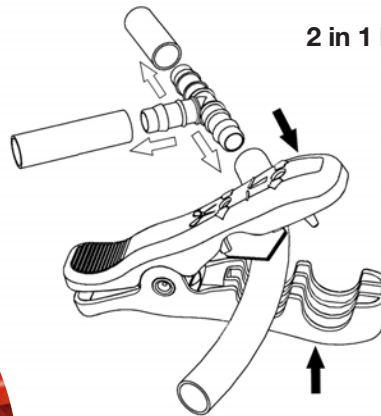
Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Key Punch™	42315	25	120	12.1
2 in 1 Punch & Cutter	42375	1	95	8.8
Socket Driver for Rotor Rain® Plus	51905	1	180	17.2



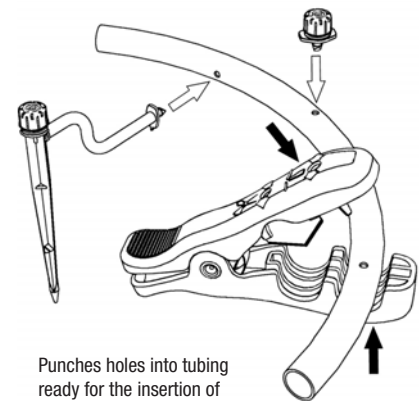
Socket Driver for Rotor Rain® Plus

Socket Driver for Rotor Rain® Plus

Using a low speed torque controlled drill, simply slip Socket Driver over sprinkler head for easy installation into stakes and risers.



Cuts low density poly pipe and vinyl tubing up to 22 mm OD.



Punches holes into tubing ready for the insertion of emitters and fittings.

2 in 1 Punch & Cutter Retail Packaging



Key Punch™

KwikCut™ Cutters

Multi-purpose cutters designed to cut polyethylene, PVC pipe, hose and tube. Blades are manufactured from high quality stainless steel using proprietary technology, ensuring sharp edges for clean precise cuts.

Features

- Clean, smooth right angle cut, eliminating chamfering of the pipe.
- Fiberglass reinforced nylon handles for durability and long life.
- SL Series has spring loaded action and safety close clip.
- Stainless Steel & PTFE Coated blade options.
- Replacement blades available.
- Pre-packaged in ready-to-hang, safe and secure retail pack.

T & SL Series 100

Cuts Rubber Hose, PE & PVC up to 25 mm.

T & SL Series 135

Cuts Rubber Hose and PE up to 40 mm, PVC up to 32 mm.

T & SL Series 200

Cuts Rubber Hose up to 50 mm, PE up to 40 mm, PVC up to 32 mm.



Scan to
see how
it works



Applications

Cutting of PE, HDPE, PVC pipe, hose, conduit & electrical cables for irrigation, landscape, plumbing and electrical applications.



KwikCut™ Standard T100
Stainless Steel Blade



KwikCut™ Spring Action SL135
PTFE Blade



KwikCut™ Standard T200 Black
Stainless Steel Blade



KwikCut™ BT135 PTFE Replacement Blade



KwikCut™
Safe &
Secure Retail
Packaging

Ordering Information - KwikCut™ Standard T Series

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
KwikCut™ T100 Orange - PTFE Blade	T100-O	1	50	6.3
KwikCut™ T100 Black - PTFE Blade	T100	1	50	6.3
KwikCut™ T100 Orange - Stainless Steel Blade	T100-O-SS	1	50	6.3
KwikCut™ T100 Black - Stainless Steel Blade	T100-SS	1	50	6.3
KwikCut™ T135 Orange - PTFE Blade	T135-O	1	50	6.8
KwikCut™ T135 Black - PTFE Blade	T135	1	50	6.8
KwikCut™ T135 Orange - Stainless Steel Blade	T135-O-SS	1	50	6.8
KwikCut™ T135 Black - Stainless Steel Blade	T135-SS	1	50	6.8
KwikCut™ T200 Black - Stainless Steel Blade	SS200	1	50	9.9

Ordering Information - KwikCut™ Spring Loaded SL Series

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
KwikCut™ SL100 Orange - PTFE Blade	SL100-O	1	50	6.5
KwikCut™ SL100 Black - PTFE Blade	SL100	1	50	6.5
KwikCut™ SL100 Orange - Stainless Steel Blade	SL100-O-SS	1	50	6.5
KwikCut™ SL100 Black - Stainless Steel Blade	SL100-SS	1	50	6.5
KwikCut™ SL135 Orange - PTFE Blade	SL135-O	1	50	7.1
KwikCut™ SL135 Black - PTFE Blade	SL135	1	50	7.1
KwikCut™ SL135 Orange - Stainless Steel Blade	SL135-O-SS	1	50	7.1
KwikCut™ SL135 Black - Stainless Steel Blade	SL135-SS	1	50	7.1
KwikCut™ SL200 Black - Stainless Steel Blade	SL200	1	50	10.0

Ordering Information - KwikCut™ Replacement Blades

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
KwikCut™ BT100 - PTFE Blade	BT100	1	500	9.8
KwikCut™ BT100 - Stainless Steel Blade	BT100-SS	1	500	9.8
KwikCut™ BT135 - PTFE Blade	BT135	1	500	10.2
KwikCut™ BT135 - Stainless Steel Blade	BT135-SS	1	500	10.2
KwikCut™ SS200 - Stainless Steel Blade	SSB200	1	500	11.3



PVC Pipe



Pex Pipe



Rope



Radiator Hose



Conduit



Branches



Poly Pipe



Belts

KwikCut™ Saws

Heavy-duty Hand Saws designed for cutting large PVC and ABS pipe. Hand Saws feature long-lasting, fine-tooth blades for quick and clean cuts. Mini Hack Saw and Rope Saw offer versatility for intricate cuts and cutting in tight or awkward spaces.

Features

- Hand Saws available in 23cm (9"), 33cm (13") & 45cm (18") lengths.
- Heavy-duty high tension Hack Saw cuts straight or at a 45° angle.
- Hack Saw frame bar can be converted into a keyhole saw and used to store extra blades.
- Mini Hack Saw is tough and lightweight and has an ergonomically designed handle.
- Rope Saw cuts plastic, soft wood & rubber in hard to reach places.
- Replacement Hand Saw & Hack Saw blades available.



Applications

For home gardeners, contractors and professionals.

Ordering Information - Hand Saws

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Handsaw 23 cm (9")	GS09F	1	25	7.0
Handsaw 33 cm (13")	GS13F	1	25	8.4
Handsaw 45 cm (18")	GS18F	1	50	18.3

Ordering Information - Hack Saws

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Hacksaw	HS12	1	6	4.8
Mini Hacksaw	MH004	1	144	12.5

Ordering Information - Rope Saw

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Rope Saw	RS32	1	100	4.6

Ordering Information - Hand Saw Replacement Blades

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Handsaw Replacement Blade 23cm (9")	BGS09F	1	50	3.2
Handsaw Replacement Blade 33cm (13")	BGS13F	1	50	8.6
Handsaw Replacement Blade 45cm (18")	BGS18F	1	50	11.3

Ordering Information - Hack Saw Replacement Blades

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Hacksaw Blades 18 TPI	HSB18	10	10	20.0
Hacksaw Blades 24 TPI	HSB24	10	10	20.0
Hacksaw Blades 32 TPI	HSB32	10	10	20.0



KwikCut™ Tools & Accessories

A range of tools and accessories for irrigation, plumbing, electrical installations and more.

Features

- Soft-handled covered Crimpers for easy clamp installation or removal.
- The Turf Knife “The Claw” features a fixed hook with serrated blade for cutting turf, roofing materials, and floor coverings.
- Spring-loaded Wire Strippers with strip holes for 10 to 22 gauge wire.
- The KwikGlue Tote provides a practical solution for storing and transporting solvent cement and primer cans.
- Replacement Utility Knife blades available.



Applications

For home gardeners, contractors and professionals.

Ordering Information - Knives

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Utility Knife - Folding w/ 5 Replacement Blades	UK200	1	60	10.3
Turf Knife “The Claw”	TK300	1	100	15.3

Ordering Information - Knife Replacement Blades

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Utility Knife Replacement Blades	BUK100	5	50	1.9

Ordering Information - Crimpers

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Crimpers 200 mm (8”)	CT108	1	50	19.0

Ordering Information - Wire Stripper/Cutter

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Wire Stripper/Cutter	WS1022	1	100	13.2
Ergonomic Wire Stripper/Cutter	WS1022-ERGO	1	100	15.5

Ordering Information - KwikGlue Tote

Description	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
KwikGlue Tote	GT200	1	24	6.1



Crimpers



Ergonomic Wire Stripper/Cutter



Wire Stripper/Cutter



KwikGlue Tote.
Glue & Cutter not included



Turf Knife
“The Claw”



Utility Knife - Folding

Retail Ready Range

Retail Ready products is a range of select Antelco product's packaged in easy tear-away shelf-ready cartons. Pack quantities have been reduced to suit DIY/ home gardeners requirements.

Features

- Ordering and self-sell information supplied on outer carton.
- Products supplied in either a labelled and barcoded bag or individually with a barcode label attached.



Ordering Information - Packaged Products

Description	Order Code	Pack Quantity	Packs Per Retail Carton	Retail Carton (kg)
CETA® Pressure Compensating 2 lph Red	30427	15	30	1.1
CETA® Pressure Compensating 4 lph Black	30447	15	30	1.1
CETA® Pressure Compensating 8 lph Green	30487	15	30	1.1
Shrubber® 360° Adjustable Flow Spike	31497	5	25	0.9
Spectrum™ 360° Adjustable Spray Spike	32097	5	25	1.0
13 mm Ratchet Clamp #15 (tube OD 15 mm - 16 mm)	44307	15	30	1.2
19 mm Ratchet Clamp #22 (tube OD 21 mm - 23 mm)	44317	15	25	1.3
DripPets® Frog 4 lph	30815	100	TBA	TBA
DripPets® Ladybug 4lph	30845	100	TBA	TBA

Ordering Information - Individually Labelled Products

Description	Order Code	Units Per Retail Carton	Retail Carton (kg)
Vari-Jet™ Stake Assembly 180° Black cap/Black base	17197	50	1.5
Vari-Jet™ Stake Assembly 90° Black cap/Black base	17207	50	1.5
Vari-Rotor Spray™ Stake Assembly 1.5 mm Black base	17297	50	1.6
2 in 1 Punch & Cutter	42377	10	1.0
Nut & Tail 3/4" BSPF x 13 mm	44007	60	1.4
Nut & Tail 3/4" BSPF x 19 mm	44017	50	1.1
End Plug 13 mm	44557	100	0.7
End Plug 19 mm	44567	80	0.9
Joiner 13 mm	44707	100	0.7
Joiner 19 mm	44717	80	0.9
Reducing Joiner 19 mm x 13 mm	44807	80	0.9
Elbow 13 mm	44837	100	0.9
Elbow 19 mm	44867	80	0.9
Threaded Elbow 13 mm x 1/2" BSPM	44887	80	1.0
Threaded Elbow 19 mm x 1/2" BSPM	44907	80	0.8
Threaded Elbow 19 mm x 3/4" BSPM	44917	60	0.9
Tee 13 mm	45037	100	0.9
Tee 19 mm	45067	80	0.9
Reducing Tee 19 mm line x 13 mm branch	45107	80	0.9
Threaded Tee 13 mm line x 1/2" BSPM branch	45187	80	0.9
Threaded Tee 19 mm line x 1/2" BSPM branch	45207	80	0.9
Threaded Tee 19 mm line x 3/4" BSPM branch	45217	60	0.8
Director 13 mm x 1" BSPM	45277	60	1.3
Director 19 mm x 1" BSPM	45307	50	1.1
Green Back® Valve 13 mm	45507	60	1.8
Green Back® Valve 19 mm	45527	40	2.2
Pressure Regulator 3/4" BSPF x 3/4" BSPM 175 kPa	49537	15	1.0

Irrigation Conversion Tables & Formulas

Mesh - Screen Filter

Mesh	Millimeters	Microns
10	2	2000
20	0.841	841
40	0.4	400
60	0.25	250
80	0.177	177
100	0.149	149

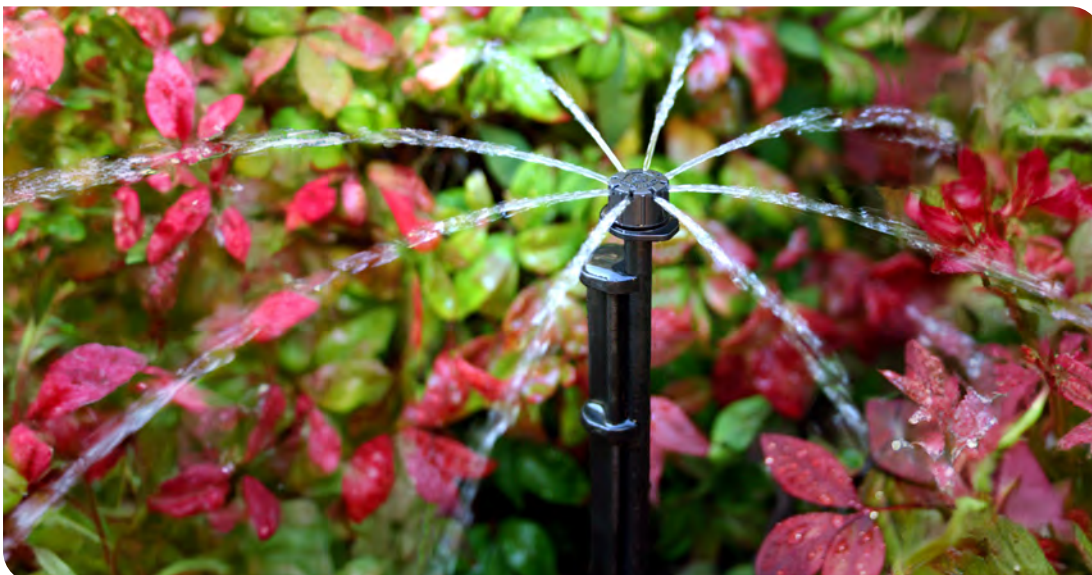
Metric to Imperial - Formulas

Pressure – kPa to psi	1 kPa = 0.145 psi
Flow – lph to gph	1 lph = 0.264 gph
Mass – Grams to Ounces	1 g = 0.035 oz
Measurement Unit – Millimeters to Inches	1 mm = 0.039 in
Measurement Unit – Metres to Feet	1 m = 3.28 ft

Conversion Tables

kPa	psi	Meters	Feet	lph	gph
30	4.4	0.1	0.3	2	0.5
40	5.8	0.2	0.6	4	1
50	7.3	0.4	1.3	6	1.6
100	14.5	0.6	2.0	8	2.1
150	21.8	0.8	2.6	10	2.6
200	29.0	1	3.3	20	5.3
250	36.3	1.5	4.9	40	10.1
300	43.5	2	6.6	60	15.9
350	50.8	2.5	8.2	80	21.1
400	58.0	3	9.8	100	26.4
		3.5	11.5	150	39.6
		4	13.1	200	52.8
		6	19.7	250	66.0
		8	26.2	300	79.3
		10	32.8	350	92.5

* Figures are rounded for clarity and may not reflect exact values.



1. Agreement

- 1.1 These Terms and Conditions of Trade apply to every supply of Products by Antelco to the Customer and will be incorporated by reference, deemed part of and govern all orders for Products made by the Customer and accepted by Antelco.
- 1.2 The agreement referred to in clause 1.1 records the entire agreement between the Parties about its subject matter. It supersedes, terminates and replaces all prior understandings, arrangements and agreements between the Parties.
- 1.3 The Customer acknowledges that:
 - (a) this Agreement is expressed in reasonably plain language, is legible, is presented clearly, and that when an explanation was sought by the Customer from Antelco of any content of this Agreement, either an acceptable explanation was offered or a recommendation was made to seek professional advice;
 - (b) it has had an opportunity to seek legal and commercial advice on the content of this Agreement;
 - (c) it has had an opportunity to negotiate for any deviations;
 - (d) this Agreement benefits both Parties and does not cause any significant imbalance in the rights and obligations of the Parties arising from this Agreement;
 - (e) this Agreement is reasonably necessary to protect the legitimate interest of the Party relying on this Agreement; and
 - (f) this Agreement does not cause detriment, whether financial or otherwise, to the Customer, if it were to be applied or relied by Antelco.
- 1.4 This Agreement prevails over any other future understandings, arrangements and agreements between the Parties, except to the extent that any of the preceding is a valid amendment to this Agreement and the Parties have specifically acknowledged that this is so in the amendment.

2. Prices

- 2.1 The current prices for the Products are set out in Antelco's schedule of pricing. These prices are exclusive of GST.
- 2.2 Antelco may change the price of any Product or Products at any time, provided that such price change is not applied to any order the Customer has made prior to the effective date of that price change.
- 2.3 For any Customer who places an order for Products to be shipped outside Australia on behalf of the Customer, a minimum order handling fee of \$30 (inclusive of GST) will apply to orders with a total amount payable of less than \$250 (inclusive of GST).

3. GST

- 3.1 This clause 3 applies if a Party makes a taxable supply (within the meaning of any law imposing GST) in connection with this Agreement for consideration.
- 3.2 Subject to this clause, the consideration payable by a Party represents the value of the taxable supply.
- 3.3 Subject to clause 3.5, the Party liable to pay for the taxable supply must also pay, at the same time and in the same manner as the value is otherwise payable, a further amount calculated by multiplying:
 - (a) the amount otherwise payable; by
 - (b) the GST rate for the time being.
- 3.4 If a payment to a Party under this Agreement is a reimbursement or indemnification, calculated by reference to a loss, cost or expense incurred by that Party, then the payment will be reduced by the amount of any input tax credit to which that Party is entitled on the acquisition of the supply for which that loss, cost or expense is incurred. The Party is assumed to be entitled to full input tax credits unless it demonstrates that its entitlement is otherwise prior to the date on which payment must be made by the other Party.
- 3.5 A Party's right to payment under this clause 3 is subject to a valid tax invoice being delivered to the Party liable to pay for the taxable supply.
- 3.6 If a person is a member of a GST Group references to GST which the person must pay and to input tax credits to which the person is entitled include GST which the representative member of the GST Group must pay and input tax credits to which the representative member is entitled.

4. Orders

- 4.1 Any quotation by Antelco does not constitute an offer to supply. A quotation is valid for the time specified in the quotation and if no time is specified, for 30 days only and shall expire thereafter if an order is not submitted within that time.
- 4.2 Orders must be placed by e-mail to Antelco. Special orders should be placed by contacting Antelco's Sales Department. Orders must include details of the Products' description, the quantity ordered, the price per item in dollars, the total price in dollars, the requested time for collection and such other information as Antelco may reasonably require.

- 4.3 If the Customer wishes to place an urgent order for shipment by air, the Customer must ensure that such an order is received by Antelco before 10.00am of the day of despatch. All such shipments are placed on behalf of the Customer and surcharges will apply. The Customer acknowledges that airbags are best restricted to 3 or 5 kilograms.
- 4.4 The Customer will be advised whether its order can be satisfied, and if so, the Customer will so be advised of pricing for the ordered Products and the anticipated delivery time.
- 4.5 No order may be cancelled by the Customer without the written consent of Antelco, irrespective of whether or not Antelco has advised the Customer of its acceptance of that order.
- 4.6 Back orders are treated as new orders. Back orders are invoiced when they are despatched. The Customer should advise Antelco in writing if it does not want any Product back ordered or if it wants any back order cancelled. Antelco will accept cancellation of a back order if it has not been despatched.

5. Payments

- 5.1 Subject to the Customer having an account with Antelco, and Antelco having issued a tax invoice to the Customer in accordance with this Agreement, the Customer must pay Antelco the invoiced amount within 30 days of the end of the month in which the Customer is invoiced. The Customer must do so by electronic funds transfer to the account nominated by Antelco in writing, or by bank cheque or by Mastercard or Visa debit or credit cards.
- 5.2 All Customers who:
 - (a) do not have an account with Antelco,
 - (b) has exceeded the credit extended by Antelco; or
 - (c) places an order for Products to be shipped outside Australia on behalf of the Customermust, subject to Antelco having issued a tax invoice, make an upfront payment of the invoiced amount.
- 5.3 Prompt payment is an essential term, and time is of the essence in relation to such payments, notwithstanding any prior indulgences. Antelco may charge interest at the Default Rate for each validly invoiced amount which remains outstanding. The Customer agrees to further indemnify Antelco for expenses incurred in recovering or attempting to recover any overdue amount. These amounts and expenses include but are not limited to legal fees, charges, disbursements and commissions on collections.
- 5.4 If the Customer disputes the validity of any invoice from Antelco relating to this Agreement, the Customer must provide Antelco with information that is reasonably required for Antelco to assess the Customer's claim.
- 5.5 The Customer must pay the undisputed portion of the invoiced amount in accordance with clause 5.1. The Customer must not withhold or set off any amount from or against any amount that is due to be paid to Antelco.

6. Delivery of Products

- 6.1 Antelco reserves the right to re-design Products which may cause changes to specifications of Products; and may do so without notice and without incurring any liability to the Customer in relation to Products ordered by the Customer. Antelco warrants that redesigned Products will be substantially the same as Products ordered by the Customer.
- 6.2 All ordered Products are delivered by Antelco to the Customer ex works. The Customer must arrange pick-up of such Products at times allocated by Antelco, and in any case, no later than 10 Business Days after the specified date of pick-up. An administration and storage charge may be applied by Antelco if the Customer fails to do so. The Customer will pick-up the Products at its own cost and risk.
- 6.3 At pick-up, the Customer will conduct a visual inspection of the Products. The Customer must inform Antelco of any apparent damage, and any discrepancy between the description of the Products in the accompanying packing slip and the Products, as well as any discrepancy between its order and the Products. If no inconsistency is found, the Customer will sign the accompanying consignment note.
- 6.4 Antelco will load the Products for the Customer, and will do so under the supervision and instruction of the Customer.
- 6.5 If the Customer becomes aware of any damage to the Products which was not apparent at pick-up and which is not caused by transportation or handling of the Products by the Customer, the Customer must notify Antelco immediately, and in any case, no later than 7 days after the Products' arrival at the Customer's site. If the Customer fails to do so, the Products will be deemed to be merchantable unless there is any latent defect that is not reasonably apparent on inspection.
- 6.6 References in this clause 6 and in clause 7.2 to the Customer apply also if the Customer arranges a contractor to pick-up the Products, and if Antelco does so on behalf of the Customer.

7. Title, risk, sale proceeds

- 7.1** Title in each ordered Product remains with Antelco until the Customer has fully paid all amounts owed by the Customer to Antelco, irrespective of whether such amounts relate to that Product.
- 7.2** Risk in each ordered Product remains with Antelco until it is loaded onto the Customer's vehicle, unless the Customer fails to pick-up the Product in accordance with clause 6.1, and if so, risk in the Product passes to the Customer on the 11th day after the specified date of pick-up for that Product.
- 7.3** To the extent that title in any Product remains with Antelco, the Customer hereby declares that it holds on trust for the sole benefit of Antelco; all sale proceeds from such Products. The Customer agrees to release such sale proceeds to Antelco in the manner requested by Antelco.
- 7.4** The Customer grants Antelco a registrable purchase money security interest as defined by the Personal Property Securities Act 2009 (Cth) over Products which are to be supplied to the Customer, and their sale proceeds as collateral for all amounts owed in relation to such Products in accordance with the terms and conditions recorded in Antelco's terms and conditions of credit.

8. Product defects and return of Products

- 8.1** Antelco warrants to the Customer that Products are:
 - (a) merchantable;
 - (b) free from manufacturing defects or faults; and
 - (c) fit for purposeif Antelco's specifications for handling, storage, installation, use, servicing and maintenance, if any, are all complied with, and the Products are not damaged in any way by the Customer, or by the Customer's Personnel.
- 8.2** Subject to clause 8.3 and in addition to the applicability of any Law, if any Product is not merchantable, is defective or is faulty, or is not fit for purpose, and this is caused by any act or omission of Antelco, Antelco will, within 12 months of a Consumer's purchase of that Product, either replace, or repair, or pay the cost of replacing the defective Product at its own cost. The defective Product must be returned to Antelco at the cost of the Customer or Consumer.
- 8.3** The Customer must comply with Antelco's specifications for handling, storing, using and maintaining Products. The Customer acknowledges that Products are designed for use in outdoor irrigation applications only which apply low pressure systems not exceeding 300 kPa.
- 8.4** If either Party wrongfully or improperly does anything or omits to do anything which has the effect or consequence of rendering the other Party liable to any third party or Consumer under any Law, then the Party whose act or failure to act has caused such liability indemnifies the other Party against all losses other than Indirect Losses, that it may incur. Notwithstanding the preceding, Antelco's liability to the Customer in relation to any supply, shall be capped to an amount equal to the amount received by Antelco from the Customer for that supply.
- 8.5** Products will be accepted for return by the Customer only if prior written approval has been obtained from Antelco. Products will not be accepted for return after 30 days from their date of collection. Products that are manufactured specifically to order cannot be returned. Returned Products must be undamaged, unsoiled and be in a saleable condition. All returned Products must include a copy of the original invoice and packing slip. All Products are returned at the cost and risk of the Customer. The Customer will receive a credit for the amount invoiced for Products that have been accepted for return by Antelco, less a handling fee of 15% of that amount.
- 8.6** This clause 8 survives the end of this Agreement.

9. Intellectual property

- 9.1** The Customer acknowledges and agrees that:
 - (a) Antelco retains all rights, title and interests in all Intellectual Property relating to:
 - (i) Products or parts of Products it manufactures;
 - (ii) any marketing, technical or other material it supplies to the Customer; and
 - (iii) its trademarks; and
 - (b) Antelco's suppliers retain all rights, title and interests in all Intellectual Property relating to:
 - (i) Products or parts of Products they manufacture; and
 - (ii) any marketing, technical or other material they supply to Antelco for redistribution; and
 - (iii) their trademarksand Antelco is a licensee of such Intellectual Property with limited rights.
- 9.2** The Customer must not use or apply to register any trademarks, branding, business names, company names, domain names or other materials likely to deceive or cause confusion or be deceptively similar or substantially identical to:
 - (a) Antelco's Intellectual Property or to any element of such Intellectual Property; or
 - (b) Antelco's suppliers' Intellectual Property or to any element of such Intellectual Property.

10. Force Majeure

- 10.1** Subject to clause 10.2, an obligation of a Party under this Agreement (other than an obligation to pay any amount) will be suspended during the time and to the extent that the Party is prevented from or is delayed in complying with that obligation by a Force Majeure Event.
- 10.1** A Party affected by a Force Majeure Event must give to the other Party particulars of the Force Majeure Event as soon as possible, and must take all reasonable steps to remove or mitigate the Force Majeure Event. The preceding does not require the affected Party to settle a strike, lockout, boycott or other industrial dispute. The affected Party must notify the other Party as soon as the Force Majeure Event ceases.
- 10.1** If a Party's obligation to perform any obligation under this Agreement is suspended under clause 10.1 for a period of more than 1 month, the other Party may, at its option, terminate an order. If a Party's obligation to perform any obligation under this Agreement is suspended under clause 10.1 for a period of more than 2 months, the other Party may, at its option, terminate this Agreement with immediate effect.

11. Definitions

In this Agreement, unless the context indicates a contrary intention:

Agreement means this document and any document that is incorporated by reference;

Antelco means Antelco Pty Ltd (ABN 50 008 062 708), and includes its administrators, successors in title, permitted assigns and substitutes;

Buy-back Price means an amount equal to 85% of the GST exclusive amount paid for the Products which are to be bought back;

Customer means the customer who places an order for Products and includes its administrators, successors in title, permitted assigns and substitutes; and if such named person is an individual, the executor(s) and heir(s) of the estate of that individual;

Default Rate means the rate 1% per month, calculated daily, on the amount owed by the Customer to Antelco.

Force Majeure Event means any event outside the reasonable control of the Party which prevents the performance of any obligation and which:

- (a) was not caused or contributed to by that Party;
- (b) could not have been prevented by reasonable precautions or remedied by reasonable expenditure by the Party which is seeking to rely on the event; and
- (c) could not reasonably be circumvented through alternate sources (including through business or service continuity planning);

GST has the same meaning as it does in the GST Act;

GST Act means the A New Tax System (Goods and Services Tax) Act 1999 (Cth) and associated legislation and regulations;

GST Group has the same meaning as is given to that term in the GST Act;

Indirect Losses means:

- (a) loss of profit, loss of revenue, loss of production;
- (b) loss of goodwill or business reputation;
- (c) any special, consequential or exemplary damages or losses; and
- (d) any other losses which is not directly caused by the relevant breach, regardless of whether such loss or damage was reasonably foreseeable or whether either Party had been informed of the possibility of such loss

and **Indirect Loss** means any one of the preceding, as applicable;

Intellectual Property means all registered and unregistered rights in patents, trademarks, copyrights, trade secrets, processes and know-how, software and algorithms, domain names and web presence, branding, advertising and promotional materials, inventions, discoveries or designs and all tangible and intangible representations and manifestations of such intellectual property;

Law means all applicable statutes, Acts, rules, regulations and by-laws current in South Australia, including all amendments and replacing laws;

Party means either Antelco or the Customer, as applicable, and includes its executors, administrators, successors and permitted assigns and substitutes; and Parties mean Antelco and the Customer;

Personnel of a Party means officers, employees, contractors and agents of that Party; and

Products means all the products listed in the Antelco Metric Catalogue, to the extent that such products are available and are not discontinued; and Product means any one of such products, as applicable.

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Antelco Group of Companies

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