

Putting Water Where it Counts![®]



**Vol.
25**

Irrigation Equipment USA Catalog

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.

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Antelco Irrigation



Antelco

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

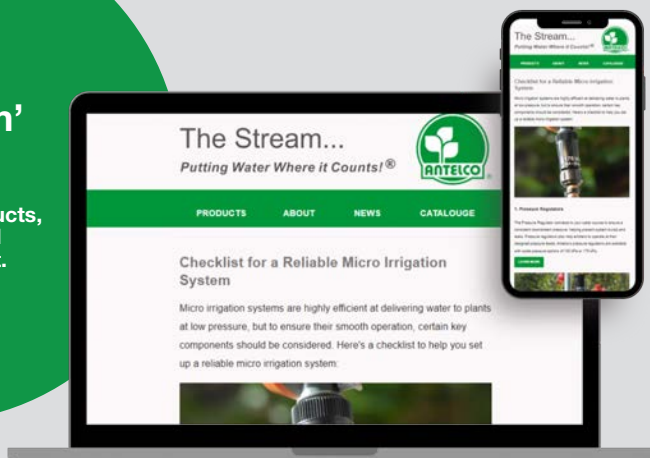
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Contents

Drippers

Shrubber® 360° & 180° Adjustable Flow	4
PotStream® Adjustable Flow	6
Mini Bubbler Adjustable Flow	8
Midi Drip™ Emitter	9
Agri Drip™ Classic Emitter	10
Agri Drip™ Pressure Compensating Emitter	11
SPEC Drip™ Pressure Compensating Emitter	12
CETA® Pressure Compensating Emitter	14
Asta® Drip Spike Pressure Compensating Emitter	17
Shrubber® 360° Pressure Compensating	18
Pinch Drip™ Pressure Compensating Emitter	19

Sprays

Spectrum™ 360° Adjustable Spray	20
Micro Spray Jets: Caps & Bases	22
Micro Spray Jets: Assemblies	24
Spray Jets	25
Vari-Jets™	26
CFd™ DownSpray	28
CFa AgSpray™	30
Frame Jets™	32

Sprinklers

Rotor Spray™ Mini Sprinklers	34
Rotor Rain™ Mini Sprinklers	36
Rotor Rain™ Plus Mini Sprinklers	38
Rotor Rain™ Plus Pressure Compensating	40
Rotor Max™ Midi Sprinklers	42
Sprinkler Accessories	44

Valves

Green Back® Valves	46
Threaded Valves	47
eZyvalve4™	48
Pressure Regulating Devices	50

Fittings

Micro Fittings	52
Xpando® Take-Off Director	54
Xpando® Fittings	55
Double Barb DB Fittings™	56
Tap Fittings	58
Filters	59

Accessories

Rigid Risers	60
Stakes	61
Stake Assemblies	62
DripMate® Micro Irrigation Kits	64
Installation Tools	66
DripMate® Tool	67
Tubing	68
Irrigation Equipment: Facts to Consider	69
Irrigation Conversion Tables & Formulas	70
Conditions of Sale	71



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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.
- In-Line Spike and Spike model suits 0.16" ID micro tube.
- Barb model for direct attachment to feeder and supply tubes.
- 10-32 UNF threaded model for installation into Rigid Risers, Asta® Stake Adapters and Micro Stakes.
- 1/2" threaded model for riser pipe installations.



Shrubbler® Spike
Inlet 0.16" w/
Break Off Adapter



Scan to
see how
it works



NEW

Easily install the Shrubbler® Barb 0.16" into lateral with the DripMate® Tool

* Refer to page 67 for ordering information.

Shrubbler® In-Line Installation



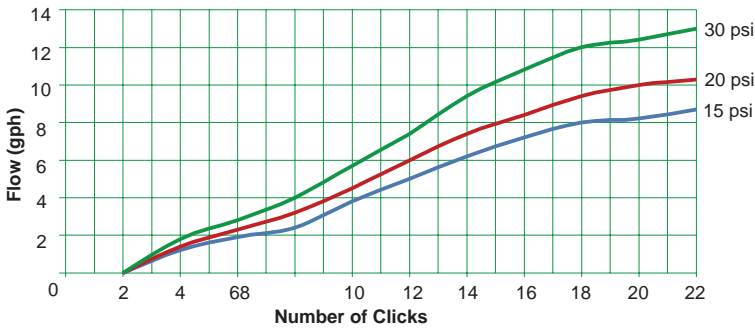
Applications

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

Performance Chart - Fully open (approx. 22 clicks)

Pattern		360° ✱	180° 丏
Pressure (psi)	Flow (gph)	Diameter (ft)	Radius (ft)
15	7.9	1.2	1.2
20	9.4	1.9	1.5
30	11.6	3.0	2.0

Flow Rate 360° & 180°



Ordering Information - Shrubber® 360°

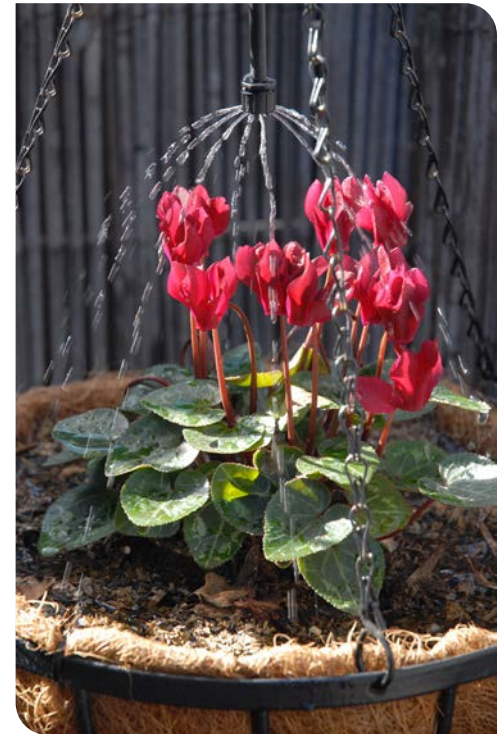
Base type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Barb 0.16"	31445	100	50	20.6
Thread 10-32 UNF	31415	100	50	24.6
Thread 1/2" FNPT	31425	25	50	13.8
Spike	31495	25	40	14.4
In-Line Spike	30995	25	40	14.3

Ordering Information - Shrubber® 180°

Base type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Barb 0.16"	31245	100	50	20.6
Thread 10-32 UNF	31215	100	50	24.6
Thread 1/2" FNPT	31225	25	50	13.8
Spike	31295	25	40	14.4

Specifications

		Barb	Thread	Thread 1/2"	Spike
UV STABILIZED MATERIAL	BASE CAP	polypropylene polypropylene	acetal polypropylene	polypropylene polypropylene	polypropylene polypropylene
BASE/CONNECTION TYPE: INLET		barb 0.16"	thread 10-32 UNF	thread 1/2" FNPT	barb 0.16"



Shrubber®
In-Line Spike
Inlet 0.16"

PotStream® Adjustable Flow

The PotStream® is a patented side mounted watering solution for pot plants and containers. The adjustable gentle stream pattern minimizes 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 diameter of 8" and upwards.
- Suits pot wall thickness up to 1.6".
- Side mounted installation for neat location of the supply tube.
- Shut-off feature allows easy relocation of pots and containers.
- Low application rate and gentle stream pattern.
- Easily adjustable knob for varying spray patterns.
- Patented design (US Design patent D815,929).



Scan to see how it works



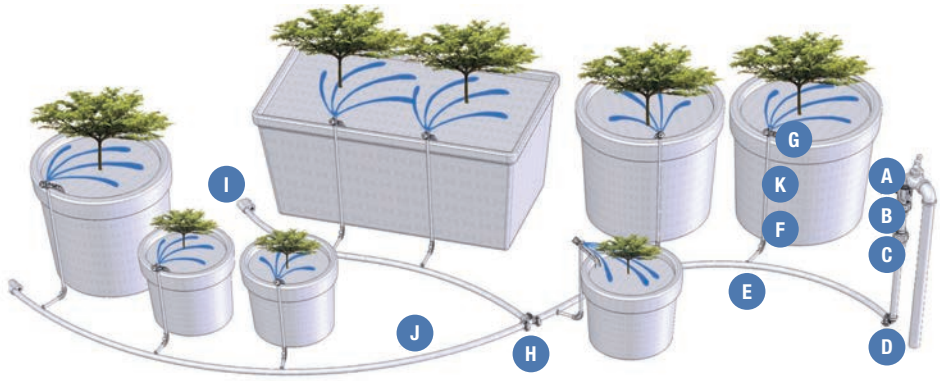
Applications

Potted plants, planter boxes and containers. **Accessories:** Tidy-Bow™ Clip On Elbow



PotStream® Adjustable Flow

Tidy-Bow™ Clip On Elbow



Typical System

- | | |
|----------------------|--------------------|
| A Pressure Regulator | G PotStream® |
| B Nut & Tail | H Tee |
| C Filter | I End Sleeve |
| D Elbow | J 1/2" Supply Tube |
| E Take-off/Joiner | K 1/4" Micro Tube |
| F Tidy Bow™ Elbow | |

Performance Chart

Pressure (psi)	Flow (gph)	Radius (in)
5	0 - 3.3	0 - 8.7
10	0 - 4.7	0 - 9.1
15	0 - 5.8	0 - 9.3
20	0 - 6.8	0 - 9.5
25	0 - 7.7	0 - 10.4
30	0 - 8.3	0 - 11.0
35	0 - 9.1	0 - 11.8
40	0 - 9.7	0 - 12.4

Ordering Information - PotStream® Adjustable Flow

Description	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
PotStream® Adjustable Flow	31455	20	20	13.9

Specifications

Dimensions Assembled		UV Stabilized Material		Color		Base/Connection Type	
HEIGHT	8.7"	STAKE	polypropylene	STAKE	Black	INLET	barb 0.16"
WIDTH	0.9"	KNOB	HDPE	KNOB	Black		
DEPTH	3.0"						
WEIGHT (approx.)	0.4 oz						

Ordering Information - Potstream® Kit

Description	Part Number	Packs Per Carton	Carton (lbs)
PotStream® Kit	81455	10	6.7



System Components Include:

- 25 feet of 1/4" Distribution Tubing
- 5 PotStream® Adjustable Flow
- 5 Tidy-Bow™ Clip On Elbows
- 5 0.16" Tees
- 1 Faucet Connector

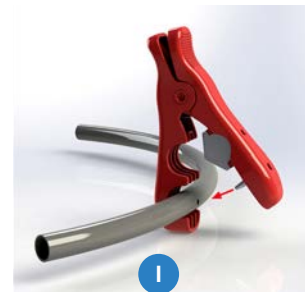
* Refer to pages 64 & 65 for DripMate® Kit Information.



PotStream® Kit



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.
- 10-32 UNF threaded model for installation into Rigid Risers and Asta® Stakes.
- 1/2" threaded model for riser pipe installations.



Mini Bubbler Spike inlet 0.16" w/ Break Off Adapter

Mini Bubbler Barb 0.16"

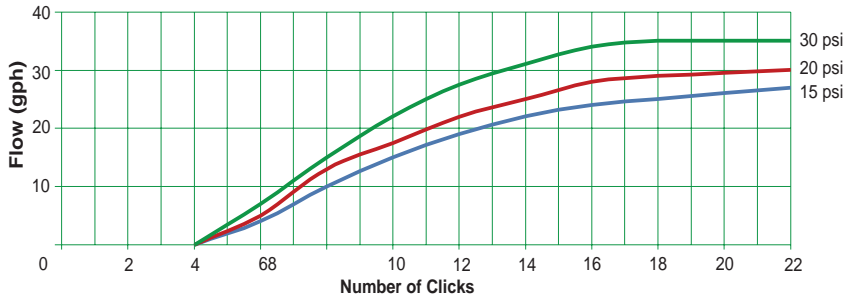
Mini Bubbler Thread 10-32 UNF

Mini Bubbler Thread 1/2" Female

Performance Chart - Fully open (approx. 22 clicks)

Pattern		360° ●
Pressure (psi)	Flow (gph)	Diameter (ft)
15	27.0	0.69
20	30.1	1.05
30	35.0	1.89

Flow rate



Ordering Information - Mini Bubbler

Base type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Barb 0.16"	31745	100	50	19.6
Thread 10-32 UNF	31715	100	50	24.0
Thread 1/2" FNPT	31725	25	50	13.7
Spike	31795	25	40	14.7

Specifications

	Barb	Thread	Thread 1/2"	Spike
UV STABILIZED BASE MATERIAL	polypropylene	acetal	polypropylene	polypropylene
CAP	polypropylene	polypropylene	polypropylene	polypropylene
BASE/CONNECTION TYPE: INLET	barb 0.16"	thread 10-32 UNF	thread 1/2" FNPT	barb 0.16"



Scan to see how it works

Applications

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

Midi Drip™ Emitter

1 gph 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.



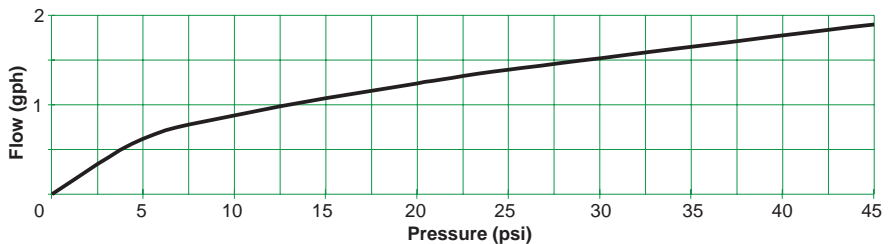
Midi Drip™
Spike with
0.16" inlet

Midi Drip™
Barb 0.16"

Performance Chart

Pressure (psi)	Flow (gph)
5	0.62
10	0.88
15	1.07
20	1.24
25	1.39
MINIMUM FLOW PATH DIMENSION (INCH)	0.025 x 0.020

Flow Rate



Ordering Information - Midi Drip™

Base type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Barb	30145	100	50	11.6
Spike	30195	25	50	13.6

Specifications

Dimensions Assembled	Barb	Spike	UV Stabilized Material	Base/Connection Type
HEIGHT	0.7"	4.9"	BODY polypropylene	
LENGTH	1.4"	2.0"	KEY polypropylene	INLET barb 0.16"
WIDTH	0.35"	0.35"	SPIKE polypropylene	
WEIGHT (approx.)	0.053 oz	0.163 oz		

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 Emitter

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

Features

- Color coded bases for easy identification: 1/2 gph (Red), 1 gph (Gray) & 2 gph (Green).
- Positive barb connection to suit 0.16" ID tube.
- UV stabilized materials for long life.
- Resistant to common agricultural chemicals and fertilizers.
- Suitable for rainwater tanks and low pressure systems.



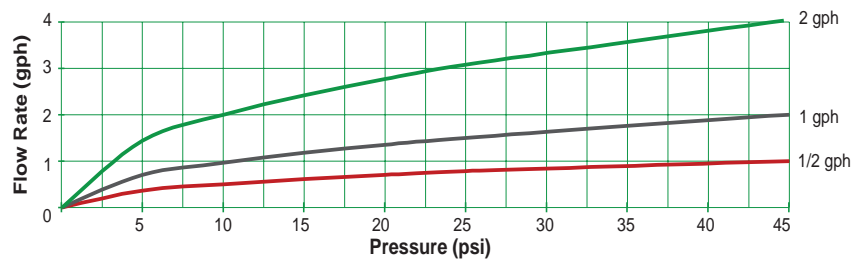
Applications

Economical dripper for landscape, horticultural tree and row crops and vineyards.

Performance Chart

Pressure (psi)	Flow (gph)		
	1/2 gph	1 gph	2 gph
5	0.36	0.70	1.44
10	0.50	0.96	2.00
15	0.61	1.18	2.42
20	0.70	1.35	2.77
25	0.78	1.50	3.08
MINIMUM FLOW PATH DIMENSION (INCH)	0.035 x 0.028	0.050 x 0.032	0.073 x 0.043

Flow rate



Ordering Information - Agri Drip™ Classic

Base type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
1/2 gph Red	30225	100	50	14.1
1 gph Gray	30245	100	50	14.1
2 gph Green	30285	100	50	14.1

Specifications

Dimensions Assembled		UV Stabilized Materials	Base/Connection Type
HEIGHT	0.9"	BASE polypropylene	INLET barb 0.16"
DIAMETER	0.8"	CAP polypropylene	OUTLET spout 0.16"
WEIGHT (approx.)	0.04 oz		



This product has been independently tested by the Center for Irrigation Technology, California State University, Fresno.



Agri Drip™ Classic 1/2 gph



Agri Drip™ Classic 1 gph



Agri Drip™ Classic 2 gph

Agri Drip™ Pressure Compensating Emitter

A sealed turbulent flow path pressure compensating dripper incorporating a diaphragm that maintains a uniform flow rate over a wide range of operating pressures.

Features

- Three available models: 1/2 gph, 1 gph & 2 gph.
- Positive barb connection to suit 0.16" ID tube or connect directly to supply tubing.
- UV stabilized materials for long life.
- Resistant to common agricultural chemicals & fertilizers.



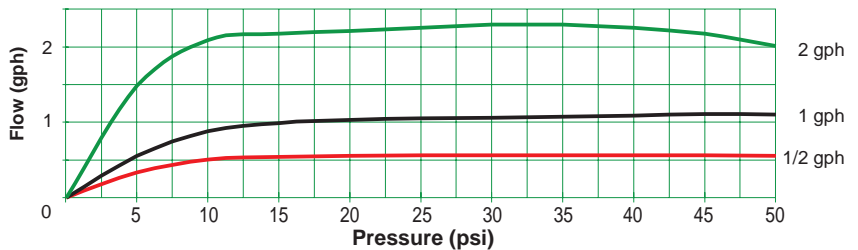
Applications

Horticultural tree and row crops, vineyards and landscape applications.

Performance Chart

Pressure (psi)	Discharge (gph)		
	1/2 gph	1 gph	2 gph
15	0.54	0.99	2.17
20	0.55	1.03	2.21
25	0.56	1.05	2.25
30	0.56	1.06	2.29
35	0.56	1.07	2.29
40	0.56	1.09	2.25
45	0.56	1.11	2.17
50	0.55	1.10	2.01
MINIMUM FLOW PATH DIMENSION (INCH)	0.027 x 0.025	0.03 x 0.03	0.027 x 0.039

Flow rate



Ordering Information - Agri Drip™ Pressure Compensating

Base type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
1/2 gph	30325	100	50	14.8
1 gph	30345	100	50	14.8
2 gph	30365	100	50	14.8

Specifications

Dimensions Assembled		UV Stabilized Materials	Base/Connection Type
HEIGHT	0.9"	BASE polypropylene	INLET barb 0.16"
DIAMETER	0.8"	CAP polypropylene	OUTLET spout 0.16"
WEIGHT (approx.)	0.05 oz	DIAPHRAGM silicone rubber	



This product has been independently tested by the Center for Irrigation Technology, California State University, Fresno.



Agri Drip™ 1/2 gph PC
Barb 0.16"



Agri Drip™ 1 gph PC
Barb 0.16"



Agri Drip™ 2 gph PC
Barb 0.16"

NEW

SPEC Drip™ Pressure Compensating Emitter

A dripper with a self-piercing inlet barb for easy installation and a barbed outlet for secure connection of 0.160" 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 color coded bases.
- Self-flushing cleaning action at low pressures.
- Insect baffle to reduce risk of blockages.
- Inlet barb has built-in filter.
- UV stabilized 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 1/2 gph



SPEC Drip™ PC 1 gph



SPEC Drip™ PC 2 gph



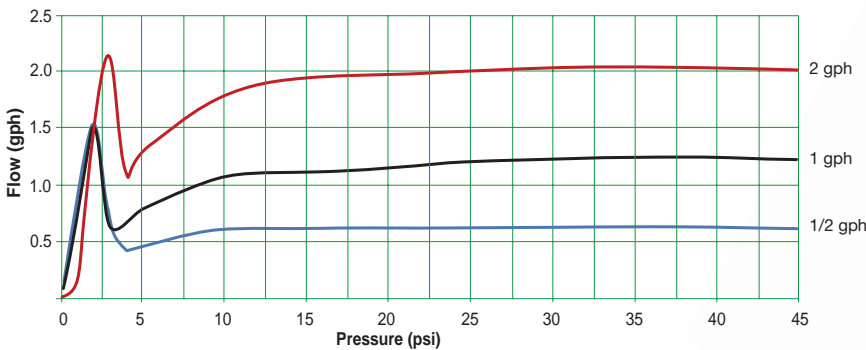
Specifications

Dimensions Assembled		UV Stabilized Materials		Base/Connection Type	
HEIGHT	1.0"	CAP	acetal	INLET	self piercing barb 0.16"
WIDTH	1.1"	BASE	acetal	OUTLET	barb 0.16"
DEPTH	0.6"	DIAPHRAGM	silicone rubber	OUTLET	barb 0.16"
WEIGHT (approx.)	0.03 oz				

Performance Chart

Pressure (psi)	Flow (gph)		
	1/2 gph	1 gph	2 gph
5	0.45	0.77	1.28
10	0.60	1.06	1.78
15	0.60	1.10	1.93
20	0.60	1.14	1.96
25	0.61	1.20	2.00
30	0.62	1.22	2.03
35	0.62	1.23	2.03
40	0.61	1.23	2.03
45	0.60	1.21	2.00
50	0.58	1.20	1.96
MINIMUM FLOW PATH DIMENSION (IN)	0.027 x 0.024	0.031 x 0.031	0.047 x 0.035

Flow Rate

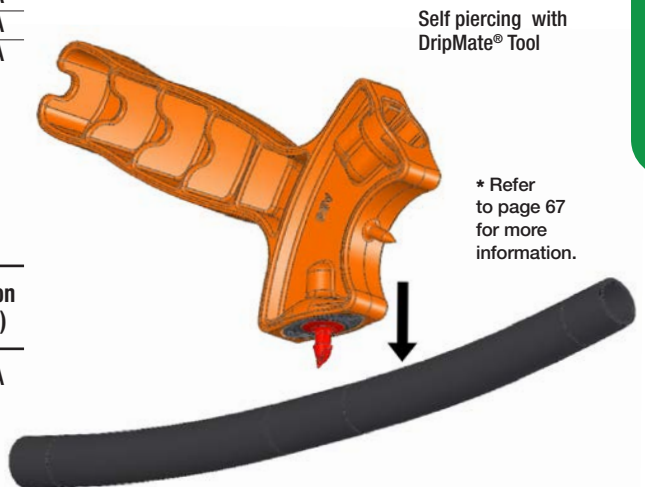


Ordering Information - SPEC Drip™ PC

Description	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
1/2 gph Blue Self Piercing Barb	30805	100	50	TBA
1 gph Black Self Piercing Barb	30825	100	50	TBA
2 gph Red Self Piercing Barb	30835	100	50	TBA

Ordering Information - DripMate® Tool

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
DripMate® Tool	70025	1	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

- Low manufacturing coefficient of variation (Cv) provides high performance (conforms to ISO 9261).
- Take apart for easy inspection and cleaning.
- Self-flushing cleaning action at low pressure.
- Insect baffle to minimize risk of blockages.
- Barbed Outlet range includes either 0.12" or 0.16" barbed outlets.
- Spike & In-Line Spike models to anchor CETA® at the plant.



Applications

Pots, planter boxes, balcony patio and landscape applications.



CETA® PC Spike with 0.16" Inlet

CETA® PC In-Line Spike with 0.16" Inlet



CETA® PC 1/2 gph Inlet 0.16" with 0.12" or 0.16" Outlet

CETA® PC 1 gph Inlet 0.16" with 0.12" or 0.16" Outlet

CETA® PC 2 gph Inlet 0.16" with 0.12" or 0.16" Outlet

Performance Chart

Pressure (psi)	Flow (gph)		
	1/2 gph	1 gph	2 gph
5	0.41	0.76	1.47
10	0.51	0.92	1.80
15	0.54	1.00	2.08
20	0.57	1.07	2.08
25	0.59	1.12	2.11
30	0.61	1.15	2.13
35	0.61	1.17	2.14
40	0.61	1.16	2.13
45	0.60	1.15	2.11
50	0.59	1.13	2.07

Ordering Information - CETA® PC Spike

Base type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)	
Spike 1/2 gph	30615	25	40	13.4	NEW
Spike 1 gph	30625	25	40	13.4	
Spike 2 gph	30635	25	40	13.4	NEW
In-Line Spike 1/2 gph	30645	25	40	14.4	NEW
In-Line Spike 1 gph	30655	25	40	14.4	
In-Line Spike 2 gph	30665	25	40	14.4	NEW

Ordering Information - CETA® PC with 0.12" Barb Outlet

Flow	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
1/2 gph Red Base	30515	100	50	24.3
1 gph Black Base	30525	100	50	24.3
2 gph Green Base	30535	100	50	24.3

Ordering Information - CETA® PC with 0.16" Barb Outlet

Flow	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
1/2 gph Red Base	30545	100	50	24.3
1 gph Black Base	30555	100	50	24.3
2 gph Green Base	30565	100	50	24.3

Specifications

		CETA® PC with 0.12" & 0.16" barb outlet	CETA® PC Spike/In-Line Spike
UV STABILIZED MATERIAL	BASE/SPIKE CAP DIAPHRAGM ADAPTER	polypropylene polypropylene silicone rubber acetal	polypropylene polypropylene silicone rubber
CONNECTION TYPE:	INLET OUTLET	barb 0.16" barb 0.12" or 0.16"	barb 0.16" spout 0.16"



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

- Low manufacturing coefficient of variation (Cv) provides high performance (conforms to ISO 9261).
- Three color coded flow rates: 1/2 gph (Red), 1 gph (Black) & 2 gph (Green).
- Large clog resistant turbulent flow path.
- The CETA® dripper is able to be taken apart for inspection and cleaning.
- Anti-insect baffle to deter insect entry.
- Constructed of high quality UV and chemical resistant materials.



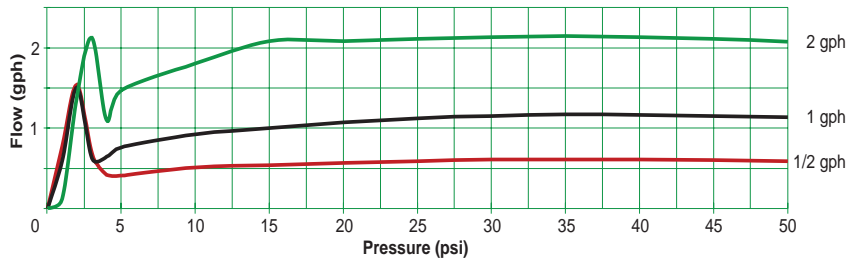
Applications

Vineyards, orchards, row crops and landscape.

Performance Chart

Pressure (psi)	Flow (gph)		
	1/2 gph	1 gph	2 gph
5	0.41	0.76	1.47
10	0.51	0.92	1.80
15	0.54	1.00	2.08
20	0.57	1.07	2.08
25	0.59	1.12	2.11
30	0.61	1.15	2.13
35	0.61	1.17	2.14
40	0.61	1.16	2.13
45	0.60	1.15	2.11
50	0.59	1.13	2.07

Flow Rate



Ordering Information - CETA® PC

Flow	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
1/2 gph Red Base	30425	100	50	15.6
1 gph Black Base	30445	100	50	15.6
2 gph Green Base	30485	100	50	15.6

Specifications

UV STABILIZED MATERIAL	BASE CAP DIAPHRAGM	polypropylene polypropylene silicone rubber
CONNECTION TYPE:	INLET OUTLET	barb 0.16" spout 0.16"



CETA® PC 1/2 gph Barb 0.16"



CETA® PC 1 gph Barb 0.16"



CETA® PC 2 gph Barb 0.16"

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

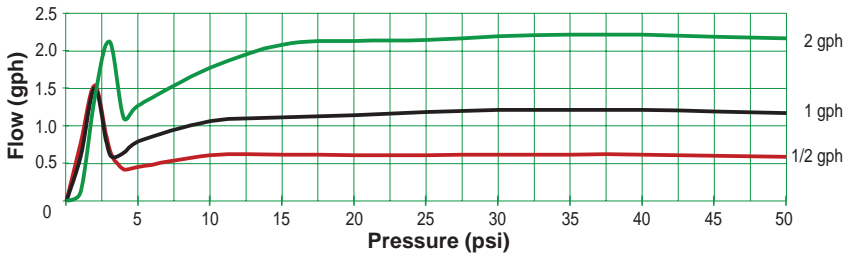
- Three color coded flow rates: 1/2 gph (Red), 1 gph (Black) & 2 gph (Green).
- Turbulent flow path and self-flushing action with insect baffle to reduce risk of blockages.
- Low manufacturing coefficient of variation (Cv) provides high performance (conforms to ISO 9261).
- Inlet barb has built-in filter to minimize risk of blockages.
- UV stabilized materials for long life.



Performance Chart

Pressure (psi)	Flow (gph)		
	1/2 gph	1 gph	2 gph
5	0.45	0.79	1.27
10	0.61	1.06	1.77
15	0.62	1.11	2.08
20	0.61	1.14	2.13
25	0.61	1.18	2.14
30	0.62	1.21	2.19
35	0.62	1.21	2.21
40	0.62	1.21	2.21
45	0.60	1.19	2.18
50	0.59	1.17	2.16
MINIMUM FLOW PATH DIMENSION (INCH)			
	0.027 x 0.024	0.031 x 0.031	0.047 x 0.035

Flow rate



Ordering Information - Asta® Drip PC Spike

Base type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
1/2 gph Red	30735	25	50	15.9
1 gph Black	30745	25	50	15.9
2 gph Green	30755	25	50	15.9

Specifications

Dimensions Assembled		UV Stabilized Materials		Base/Connection Type	
HEIGHT	5.7"	SPIKE	polypropylene	INLET	barb 0.16"
WIDTH	1.3"	BASE	polypropylene	OUTLET	spout 0.16"
DEPTH	1.7"	DIAPHRAGM	silicone rubber		
WEIGHT (approx.)		0.7 oz			

Applications

Nurseries, shade houses, tree lots and landscape applications.



Scan to see how it works

Shrubbler® 360° Pressure Compensating

A patented pressure compensating drip emitter that provides a fixed diameter over a wide range of operating pressures. Gentle stream action with uniform application and coverage for all emitters on the same supply tube.

Features

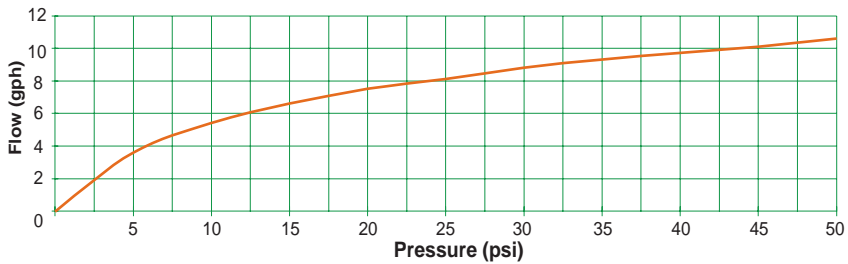
- Pressure compensating operation maintains diameter of throw over a wide range of inlet pressures.
- Take apart for easy inspection and cleaning.
- Colored cap for easy identification.
- Patented (US Patent 8662414) functionality.
- UV stabilized materials for long life.



Performance Chart

Pressure (psi)	360° ✱	
	Flow (gph)	Diameter (in)
15	6.6	10.2
20	7.5	11.8
25	8.1	14.3
30	8.8	14.0
35	9.3	14.6
40	9.7	15.0
45	10.1	15.5
50	10.6	15.7

Flow Rate



Ordering Information - Shrubbler® 360° PC

Description	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Barb 0.16"	31685	100	50	20.4
Spike	31695	25	50	15.9
NEW In-Line Spike	31705	25	40	14.4

Specifications

	Barb	Spike
UV STABILIZED MATERIAL	polypropylene polypropylene silicone rubber	polypropylene polypropylene silicone rubber
BASE / CONNECTION TYPE: INLET	barb 0.16"	barb 0.16"



Applications

Pots, planter boxes, balcony, patio and landscape

Pinch Drip™ Pressure Compensating Emitter

A sealed turbulent flow path pressure compensating dripper incorporating a diaphragm to maintain uniform flow rates over a wide range of operating pressures. Finger grips for ease of installation.

Features

- Low manufacturing coefficient of variation (Cv) to provide high performance (conforms to ISO 9261).
- Color coded bases.
- Self-flushing cleaning action at low pressures.
- Insect baffle to minimize blockages.
- Inlet barb has built-in filter.
- UV stabilized materials for long life.
- New Drip Mate[®] Tool aids installation (see page 67).

NEW



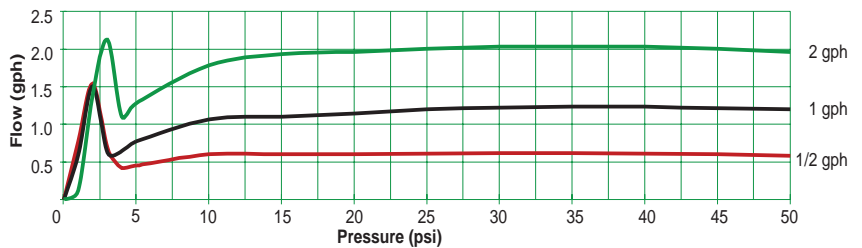
Applications

Vineyards, orchards, row crops and landscape applications.

Performance Chart

Pressure (psi)	Discharge (gph)		
	1/2 gph	1 gph	2 gph
5	0.45	0.77	1.28
10	0.60	1.06	1.78
15	0.60	1.10	1.93
20	0.60	1.14	1.96
25	0.61	1.20	2.00
30	0.62	1.22	2.03
35	0.62	1.23	2.03
40	0.61	1.23	2.03
45	0.60	1.21	2.00
50	0.58	1.20	1.96
MINIMUM FLOW PATH DIMENSION (INCH)	0.027 x 0.024	0.031 x 0.031	0.047 x 0.035

Flow rate



Ordering Information - Pinch Drip™ PC

Description	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
1/2 gph Red	30705	100	50	13.4
1 gph Black	30715	100	50	13.4
2 gph Green	30725	100	50	13.4

Specifications

Dimensions Assembled		UV Stabilized Materials	Base/Connection Type
HEIGHT	1.0"	BASE polypropylene	INLET barb 0.16"
DIAMETER	1.1"	CAP polypropylene	OUTLET spout 0.16"
DEPTH	0.6	DIAPHRAGM silicone rubber	
WEIGHT (approx.)	0.04 oz		



Pinch Drip™ PC
1/2 gph Barb 0.16"



Pinch Drip™ PC
1 gph Barb 0.16"



Pinch Drip™ PC
2 gph Barb 0.16"

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

- Fingertip click indexed flow control with shut-off option.
- Spike model to anchor Spectrum™ at the plant.
- 0.16" Barb model for direct attachment to feeder and supply lines.
- 10-32 UNF threaded model for installation into Asta® Stakes, Asta® Stake Adapter, Micro Stake Assembly and Rigid Risers.
- 1/2" threaded model 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™ Barb 0.16"

Spectrum™ Thread 10-32 UNF

Spectrum™ Thread 1/2" FNPT

Spectrum™ Spike inlet 0.16" w/ Break Off Adapter

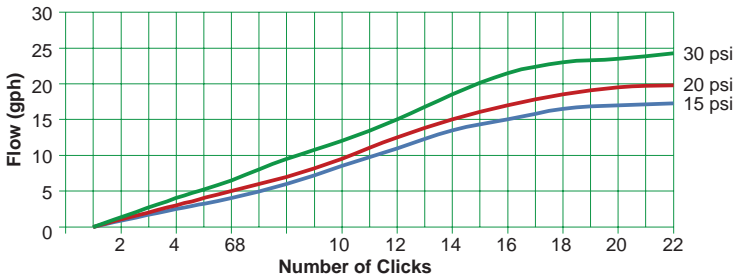


Scan to see how it works

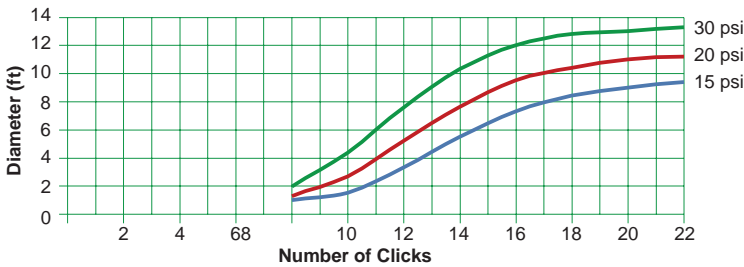
Performance Chart - Fully open (approx. 22 clicks)

360° ●		
Pressure (psi)	Flow (gph)	Diameter (ft)
15	14.5	9.2
20	16.5	10.7
30	20.6	11.8

Flow Rate



Diameter of Throw



Ordering Information - Spectrum™ 360°

Base type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Barb 0.16"	32045	50	50	13.8
Thread 10-32 UNF	32015	50	50	15.7
Thread 1/2" FNPT	32025	25	50	15.6
Spike	32095	25	40	15.3

Specifications

		Barb	Thread 10-32	Thread 1/2"	Spike
UV STABILIZED MATERIAL	BASE CAP DEFLECTOR	polypropylene polypropylene acetal	acetal polypropylene acetal	polypropylene polypropylene acetal	polypropylene polypropylene acetal
BASE/CONNECTION TYPE: INLET		barb 0.16"	thread 10-32 UNF	thread 1/2" FNPT	barb 0.16"



Micro Sprays: Caps & Bases

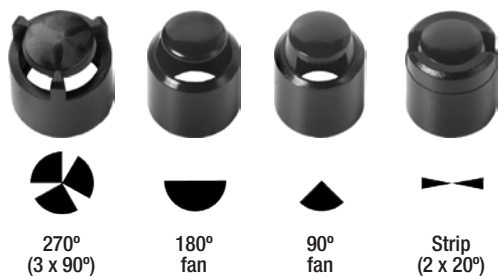
A large variety of flow rates and spray patterns are achievable when the range of caps and bases are assembled into two piece jets.

Features

- Caps available in eight spray patterns.
- Color coded bases.
- Jet assemblies made to order.
- Caps and bases can be ordered separately.
- Available in 10-32 UNF thread Hexagon Base.



Hexagon Jet Base
10-32 UNF Thread
0.06" Red



270°
(3 x 90°)

180°
fan

90°
fan

Strip
(2 x 20°)

Ordering Information - Spray Caps

Spray Pattern	Cap Color	Part Number	Pack Quantity	Pack Per Carton	Carton (lbs)
360° x 18 hole	Black	10845	100	50	3.6
360° x 15 hole	Black	10855	100	50	3.6
360° x 12 hole	Black	10865	100	50	3.6
300° x 10 hole	Black	10875	100	50	3.6
270° (3 x 90°)	Black	10835	100	50	3.6
180° fan	Black	10825	100	50	3.6
90° fan	Black	10815	100	50	3.6
Strip (2 x 20°)	Black	10885	100	50	3.6

* Refer to page 23 for Performance Chart.

Ordering Information - Jet Bases

Nozzle & Size Color	Base Type	Part Number	Pack Quantity	Pack Per Carton	Carton (lbs)
0.03" Black	Hexagon	10905	100	50	5.6
0.04" Blue	Hexagon	10915	100	50	5.6
0.05" Green	Hexagon	10935	100	50	5.6
0.06" Red	Hexagon	10955	100	50	5.6
0.08" Gray	Hexagon	10945	100	50	5.6
0.09" White	Hexagon	10985	100	50	5.6

* Refer to page 23 for Performance Chart.

Specifications

Dimensions	Cap	Base Hexagon
HEIGHT	0.35"	0.8"
WIDTH	0.32"	across flats 0.5"
WEIGHT (approx.)	0.007 oz	0.02 oz
UV STABILIZED MATERIALS	acetal	acetal
BASE/CONNECTION TYPE:	INLET	thread 10-32 UNF



Applications

Assemblies suit garden bed watering and landscape areas.
Accessories: Asta[®] Stake, Rigid Riser and Micro Stake.



Performance & Flow Rates

Pattern	360°x18	360°x15	360°x12	300°x10	270° (3x90°)	Strip (2x20°)	90°	180°	Mist	
Minimum opening size *	0.02"	0.02"	0.03"	0.03"	0.05"	0.05"	0.06"	0.06"	0.05"	
Nozzle Size & Color	Pressure (psi)	Flow (gph)	Diameter (ft)				Radius (ft)	Diameter (ft)		
0.03" Black	10	4.7	10.2	9.2	9.5	5.9	10.9	10.4	4.4	4.4
	15	5.9	13.4	10.6	10.7	11.0	11.4	14.1	5.7	5.0
	20	6.9	14.7	11.5	12.5	14.8	9.2	16.8	6.6	5.4
	25	7.8	15.6	12.4	13.7	17.5	9.2	18.9	7.2	5.6
	30	8.6	16.4	14.0	15.5	20.0	8.8	19.9	7.7	6.7
0.04" Blue	10	7.0	13.4	10.5	11.2	10.9	12.5	11.5	5.2	5.2
	15	8.9	15.8	12.6	14.6	16.3	13.3	15.9	6.7	6.0
	20	10.5	18.2	14.8	16.4	21.4	10.6	17.7	7.7	6.4
	25	12.0	19.6	17.5	17.6	25.3	11.1	19.0	8.5	6.6
	30	13.3	20.4	20.9	23.0	28.6	10.6	19.0	9.2	7.0
0.05" Green	10	11.5	17.4	15.8	13.0	12.8	11.0	15.5	5.8	5.7
	15	14.5	21.1	19.1	16.7	18.8	11.5	19.3	7.4	6.6
	20	17.2	22.5	20.0	19.1	22.5	12.0	22.4	8.4	7.2
	25	19.5	23.3	22.1	20.3	25.4	12.1	25.4	9.1	7.8
	30	21.5	23.8	26.1	23.5	26.4	12.3	28.3	9.6	8.4
0.06" Red	10	16.3	18.4	15.9	15.6	16.4	11.1	17.8	6.4	6.7
	15	20.0	22.6	20.1	20.9	18.1	12.6	21.9	8.1	8.1
	20	23.5	25.7	23.6	26.0	24.8	14.0	27.5	9.4	9.5
	25	26.0	26.7	27.2	30.5	32.4	15.0	31.8	9.8	10.1
	30	29.0	26.3	29.4	33.5	34.5	15.8	35.8	10.8	10.6
0.08" Gray	10	25.0	20.1	19.2	20.9	17.6	13.6	22.2	6.8	6.8
	15	31.0	24.6	25.4	27.3	24.7	15.2	31.6	8.7	8.3
	20	35.5	25.9	29.9	31.6	28.9	16.4	37.8	9.9	9.7
	25	40.0	26.0	33.8	36.4	31.4	17.3	42.3	10.5	10.5
	30	44.0	25.0	37.0	39.9	35.3	16.7	43.5	10.9	10.9
0.09" White	10	35.5	19.4	19.4	23.7	16.1	14.8	23.2	7.7	7.8
	15	44.0	23.3	26.7	30.8	23.1	18.0	30.0	10.0	9.3
	20	51.0	23.8	31.9	36.5	29.9	20.7	34.5	11.3	10.5
	25	57.0	23.4	36.5	40.4	33.3	23.4	37.3	12.1	12.3
	30	63.0	22.7	37.8	43.2	35.3	25.8	39.9	12.6	13.2
0.014" Yellow	10	4.0								3.0
	15	4.8								2.6
	20	5.6								2.9
	25	6.2								2.8
	30	6.8								2.6

* Minimum opening size for Base and Cap given to assist filtration selection. Ghosted figures indicate a change of performance from spray to mist.

Micro Sprays: Assembled

Two piece jets with precise watering patterns. Effective performance from low pressure.

Features

- Nine optional spray patterns.
- Color coded bases for flow identification.
- Caps feature a snap ring which firmly engages the base.
- Threaded for installation of Asta® Stakes, Asta® Stake Adapter, Micro Stake Assemblies and Rigid Risers.
- UV stabilized 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.

Ordering Information - Micro Spray Jets Assembled

Description	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Assembled Two Piece Spray Jet	Page 22	1000	26	45.9

* Refer to page 23 for Performance Chart.

For assembled Two Piece Spray Jets select color base and cap spray pattern. Minimum order - 1,000 Assemblies. Allow two weeks for assembly and dispatch. Urgent orders by arrangement.

Ordering Information - Mist Jets Assembled

Base Type	Base Color	Cap Color	Part Number	Pack Quantity	Pack Per Carton	Carton (lbs)
Hexagon	Yellow	Black	11995	100	50	8.9
Winged	Yellow	Black	14995	100	50	9.5

* Refer to page 23 for Performance Chart.

Specifications

Dimensions Assembled	Base Winged	Base Hexagon
HEIGHT	0.9"	0.8"
WIDTH	0.5"	0.3"
WEIGHT (approx.)	0.025 oz	0.028 oz
UV STABILIZED	BASE	acetal
MATERIALS	CAP	acetal
BASE/CONNECTION TYPE:	INLET	"Quick" thread 0.16"
		thread 10-32 UNF

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



Spray Jets

Economical fan spray jet for effective watering.

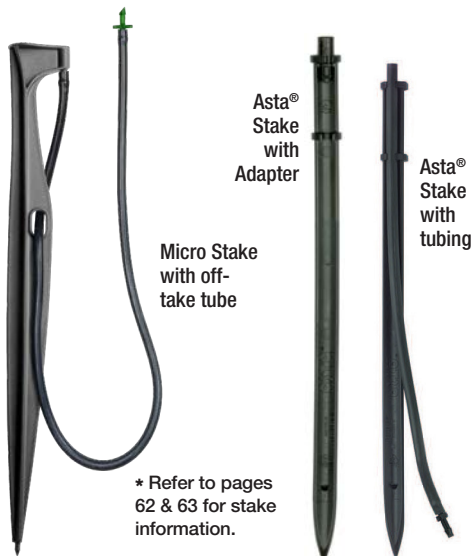
Features

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



Applications

Home and landscaped gardens and horticultural applications. **Accessories:** Asta[®] Stake, Rigid Riser and Micro Stake.



Performance Chart

Pattern			360°	180°	90°
			●	◐	◑
Nozzle Size & Color	Pressure (psi)	Flow (gph)	Diameter (ft)	Radius (ft)	
0.038" Blue	10	7.7	5.7	2.8	4.0
	15	9.5	6.6	3.3	4.6
	20	11.1	7.5	3.8	5.3
0.054" Green	10	13.7	7.0	3.6	4.6
	15	17.0	7.9	4.1	5.3
	20	19.8	8.9	4.7	6.0
0.061" Black	10	17.5	8.4	4.3	5.6
	15	21.7	9.3	5.0	6.3
	20	25.2	10.2	5.6	7.0
0.069" Red	10	19.5	9.0	5.0	6.3
	15	24.7	9.8	5.6	6.9
	20	28.7	10.8	6.3	7.6

Ordering Information - Single Piece Jets

Spray Pattern & Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
360° Blue	15445	100	50	7.4
180° Blue	15425	100	50	7.4
90° Blue	15415	100	50	7.4
360° Green	15545	100	50	7.4
180° Green	15525	100	50	7.4
90° Green	15515	100	50	7.4
360° Black	15645	100	50	7.4
180° Black	15625	100	50	7.4
90° Black	15615	100	50	7.4
360° Red	15745	100	50	7.4
180° Red	15725	100	50	7.4
90° Red	15715	100	50	7.4

Specifications

Dimensions		UV Stabilized Material	Base/Connection Type
HEIGHT	0.87"	acetal	INLET 'Quick' thread 0.16"
WIDTH	05"		
WEIGHT (approx.)	0.02 oz		



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 Adapter, Micro Stake Assemblies and Rigid Risers.
- UV stabilized materials for long life.



Vari-Jet™
360° x 18 hole
10-32 UNF Thread



Vari-Jet™
180° fan 10-32
UNF Thread



Vari-Jet™
Mist Flex
Spray
Assembly





Applications

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

Specifications - Vari-Jet™

Dimensions Assembled		UV Stabilized Material	Base/Connection Type
HEIGHT	2.0"	CAP acetal	INLET thread 10-32 UNF
WIDTH	0.9"	BASE acetal	
WEIGHT (approx.)	0.14 oz		

Performance Chart

Pattern			360° x 18° 	Mist 	180° 	90° 
Minimum opening size*			0.02"	0.05"	0.06"	0.06"
Base & Orifice Size	Pressure (psi)	Flow (gph)	Diameter (ft)		Radius (ft)	
Standard Base Max 0.06"	10	0 - 16.7	0 - 18.4		0 - 6.7	0 - 6.4
	15	0 - 21.0	0 - 22.6		0 - 8.1	0 - 8.1
	20	0 - 24.5	0 - 25.7		0 - 9.5	0 - 9.4
	25	0 - 28.0	0 - 26.7		0 - 10.1	0 - 9.8
	30	0 - 31.0	0 - 26.3		0 - 10.6	0 - 10.3
Mist Base Max 0.014"	10	0 - 4.0		0 - 3.0		
	15	0 - 5.0		0 - 2.6		
	20	0 - 5.9		0 - 2.9		
	25	0 - 6.6		0 - 2.8		
	30	0 - 7.4		0 - 2.6		

* Minimum opening size for Base and Cap given to assist filtration selection. Ghosted figures indicate a change of performance from spray to mist.



SPRAYS

Ordering Information - Vari-Jets™

Spray Pattern	Base	Cap Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
360° x 18 hole	Black 10-32 UNF	Black	13145	50	50	16.2
180° fan	Black 10-32 UNF	Black	13125	50	50	16.2
90° fan	Black 10-32 UNF	Black	13115	50	50	16.2
Mist	Black 10-32 UNF	Black	13195	50	50	16.2

Ordering Information - Vari-Jet™ 12" Asta® Stake Assembly w/12" Rigid Riser & 0.16" barb

Description	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
360° Vari-Jet™ Asta® Stake Assembly	50325	25	12	21.0
180° Vari-Jet™ Asta® Stake Assembly	50315	25	12	21.0
90° Vari-Jet™ Asta® Stake Assembly	50305	25	12	21.0

Ordering Information - Vari-Jet™ Mist Flex Spray Assembly

Description	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Vari-Jet™ Mist Flex Spray 12" Assembly	59035	5	100	24.1
Vari-Jet™ Mist Flex Spray 24" Assembly	59045	5	50	24.1



Vari-Jet™ Asta® Stake Assembly with 12" RR

Antelco Irrigation Equipment USA Catalog Vol. 25

CFd™ DownSpray

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

Features

- 45° downspray reduces the effect of wind.
- Gentle spray pattern minimizes damage to delicate plant foliage.
- 45° downspray pattern gives consistent pattern diameter with different inlet pressures making CFd™ ideal for pot watering.
- Six color coded frames to identify flow rates.
- “Quick” thread for easy insertion into tubing.
- Galvanized wire stake assembly with 36” tubing incorporates shut-off clip to stop flow.
- Patented (US patent 8480013) design provides uniform water application.
- UV stabilized materials for long life.
- Diameter of spray pattern can be easily adjusted by raising or lowering the emitter height.
- Stake assemblies includes self piercing adapter for easy installation into lateral tubing.



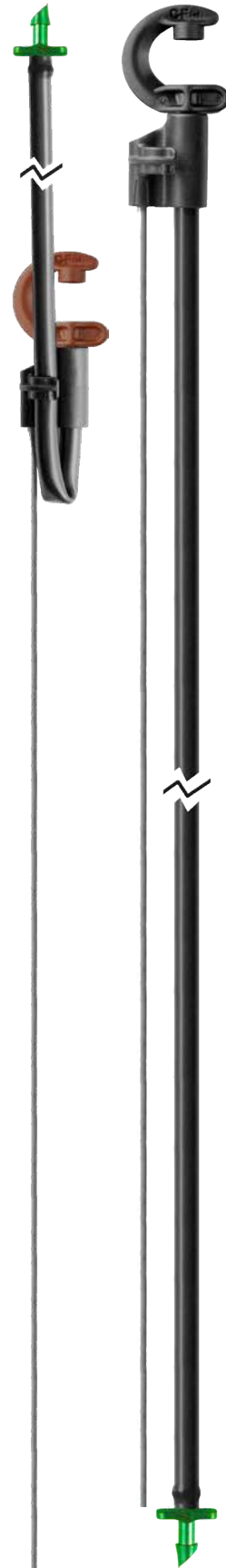
NEW



Scan to see how it works


Applications

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



CFd™ DownSpray Wire Stake Assembly with flow shut-off

Performance Chart

Pattern	360° 		
Tested at 10" above ground level			
Nozzle Size & Color	Pressure (psi)	Flow (gph)	Diameter (in)
0.030" Black	10	4.9	24
	15	6.0	24
	20	7.0	22
	25	7.8	20
0.035" Brown	10	6.2	24
	15	7.6	22
	20	8.7	20
	25	9.8	20
0.040" Blue	10	7.3	24
	15	8.9	22
	20	10.2	20
	25	11.5	20
0.045" Gray	10	9.6	24
	15	11.8	24
	20	13.7	20
	25	15.3	20
0.060" Red	10	15.8	24
	15	19.6	24
	20	22.7	20
	25	25.5	20
0.082" Purple	10	29.6	24
	15	36.4	24
	20	42.4	20
	25	47.3	20



Ordering Information - CFd™ DownSpray

Nozzle Size & Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
0.030" Black	19005	100	50	18.1
0.035" Brown	19025	100	50	18.1
0.040" Blue	19015	100	50	18.1
0.045" Gray	19045	100	50	18.1
0.060" Red	19055	100	50	18.1
0.082" Purple	19065	100	50	18.1

Ordering Information - CFd™ Galvanized Wire Stake Assembly w/Shut-Off Clip

Nozzle Size & Color	Tube Length	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
0.030" Black	36"	54305	25	12	20.1
0.035" Brown	36"	54325	25	12	20.1
0.040" Blue	36"	54315	25	12	20.1
0.045" Gray	36"	54405	25	12	20.1
0.060" Red	36"	54415	25	12	20.1
0.082" Purple	36"	54425	25	12	20.1



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

- Color coded for flow rate identification.
- 26° High x 12.5° Low Trajectory
- Robust proven C Frame design.
- No moving parts.
- Stake assemblies includes self piercing adapter for easy installation into lateral tubing.
- “Quick” thread inlet with sealing barb.
- Threaded for installation on Asta[®] Stakes, Asta[®] Stake Adapters, Micro Stake Assemblies and Rigid Risers.
- UV stabilized materials for long life.

NEW



Scan to see how it works




Applications

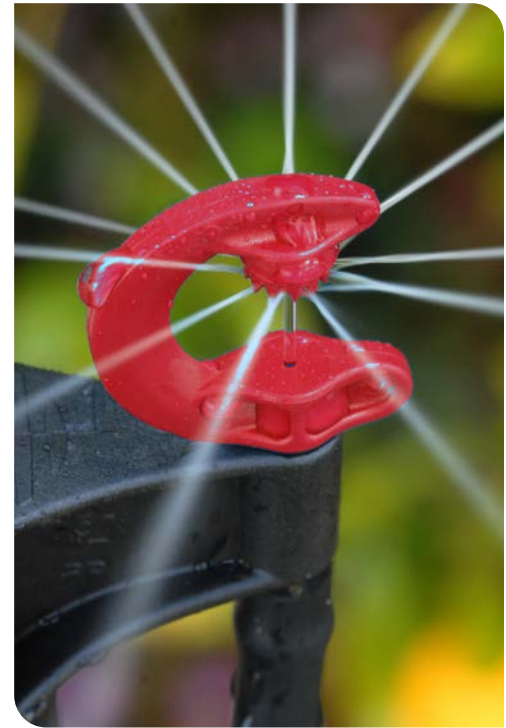
Specifically designed for orchards and horticultural crops.
Accessories: Asta[®] Stake, Rigid Riser and Micro Stake.



CFa AgSpray[™]
 Stake Assembly with
 36" Tube and Self
 Piercing Adapter

Performance Chart

Pattern/ Trajectory		360° x 12 Streams - hi Lo 26° High x 12.5° Low Trajectory 				
		Tested at 8" above ground				
Nozzle Size & Color	Pressure (psi)	Flow (gph)	Diameter (ft)		Hydraulic Flow Data	
			High	Low	Constant (k)	Exponent (x)
0.030" Black	10	4.9	9.6	7.5	1.534	0.50
	15	6.0	11.7	9.1		
	20	7.0	13.3	10.5		
	25	7.8	14.5	11.8		
	30	8.5	15.3	13.0		
0.035" Brown	10	6.2	11.2	8.5	1.976	0.50
	15	7.6	13.8	10.5		
	20	8.7	15.3	12.1		
	25	9.8	16.3	13.4		
	30	10.7	16.9	14.3		
0.040" Blue	10	7.3	12.0	9.2	2.321	0.50
	15	8.9	14.4	11.2		
	20	10.2	16.0	13.0		
	25	11.5	16.9	14.3		
	30	12.6	16.8	15.0		
0.045" Gray	10	9.6	14.7	12.1	3.001	0.51
	15	11.8	17.7	14.2		
	20	13.7	19.5	15.9		
	25	15.3	20.6	17.4		
	30	16.7	21.2	18.5		
0.060" Red	10	15.8	19.8	15.6	4.777	0.52
	15	19.6	23.1	19.0		
	20	22.7	25.3	21.2		
	25	25.5	27.0	22.7		
	30	28.0	28.4	23.9		
0.083" Purple	10	29.6	22.3	18.4	9.315	0.50
	15	36.4	27.6	24.0		
	20	42.4	30.8	27.0		
	25	47.3	34.1	28.3		
	30	51.2	35.8	29.4		



CFa AgSpray™ Range

Ordering Information - CFa AgSpray™

Nozzle Size & Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
0.030" Black	13005	100	50	18.1
0.035" Brown	13075	100	50	18.1
0.040" Blue	13015	100	50	18.1
0.045" Gray	13065	100	50	18.1
0.060" Red	13055	100	50	18.1
0.082" Purple	13085	100	50	18.1

**Ordering Information - CFa AgSpray™
Micro Stake Assembly w/ 36" Tube & Adapter**

Nozzle Size & Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
0.030" Black	54348	100	1	14.9
0.035" Brown	54358	100	1	14.9
0.040" Blue	54368	100	1	14.9
0.045" Gray	54378	100	1	14.9
0.060" Red	54388	100	1	14.9
0.082" Purple	54398	100	1	14.9

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.
- Wide range of spray patterns and trajectories.
- Color coded nozzles for flow rate identification.
- “Quick” thread for easy insertion into tubing.
- Threaded for installation on Asta® Stakes, Asta® Stake Adapter, Micro Stake
- Assemblies and Rigid Risers.



Applications

Specifically designed for orchards, vineyards and horticultural crops.

Ordering Information - Frame Jets™

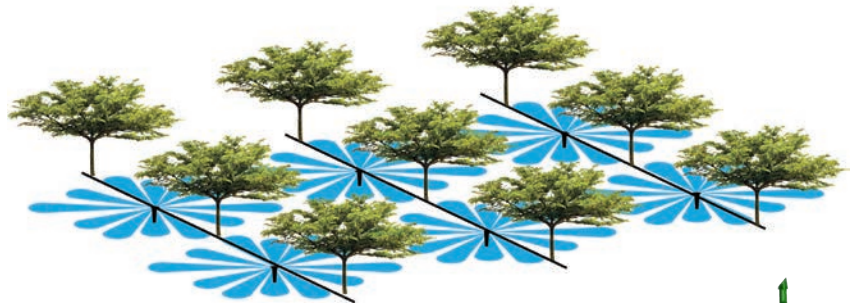
Description	Part Number	Pack Quantity	Packs per Carton	Carton (lbs)
Frame Jets™	Page 33	1000	6	26.9
Deflector	12998	1000	6	27.0
Micro Stake Assembly	54238	100	1	14.5

Specifications

Dimensions Assembled		UV Stabilized Materials		Base/Connection Type
HEIGHT	1.26”	FRAME	acetal	INLET “Quick” thread 0.16”
WIDTH	0.5”	BASE	acetal	
LENGTH	1.04”	DEFLECTOR	acetal	
WEIGHT (approx.)	0.065 oz			

* Due to the comprehensive range of Frame Jets™ all are made to order. Allow two weeks for assembly and shipping. Urgent orders upon request and may include additional charges. Smaller quantities may be available upon request.

Typical System



Spray trajectory without Deflector

Spray trajectory with Deflector



Frame Jet™
210° x 8 Pattern



Deflector attached to Frame Jet™
Butterfly Pattern



Deflector for Frame Jet™



Micro Stake Assembly with 36” tube & Self Piercing Adapter

* Refer to pages 62 & 63 for stake information.

Performance and Part Numbers

Pattern	A 360° x 12		B Butterfly		C 210° x 8		E 360° x 22		J 360° x12		R Rectangular		V 300° x 10	
	26° High	12.5° Low	22°	22°	22°	22°	12.5°	12.5°	22°	22°	12.5°	12.5°	22°	22°
Trajectory	Part Number	Diameter(ft) High Low	Part Number	Diameter (ft)	Part Number	Diameter (ft)	Part Number	Diameter (ft)	Part Number	Diameter (ft)	Part Number	Diameter (ft) Width Breadth	Part Number	Diameter (ft)
Nozzle Size & Color	Press (psi)	Flow (gph)	Part Number	Diameter (ft)	Part Number	Diameter (ft)	Part Number	Diameter (ft)	Part Number	Diameter (ft)	Part Number	Diameter (ft)	Part Number	Diameter (ft)
Black 0.030"	10	4.9	13	10	13	10	9	10	10	10	11	6		11
	15	5.9	16	12	16	11	11	11	13	13	13	7		13
	20	6.9	17	13	17	12	12508	12	12608	14	12708	8	12808	14
	25	7.6	17	14	18	13	13	13	15	15	15	9		15
	30	8.3	18	15	18	13	13	13	16	16	16	9		15
Orange 0.034"	10	5.4	13	11	15	10	10	12	12	12	7			13
	15	6.7	16	13	18	11	11	14	14	14	8			15
	20	7.7	18	14	19	12	12578	12	12678	16	12778	9	12878	17
	25	8.5	19	16	21	13	13	13	17	17	17	10		19
	30	9.3	20	17	23	14	14	14	18	18	18	11		20
Brown 0.035"	10	6.1	14	11	14	13	10	10	12	12	7			13
	15	7.5	17	14	16	15	12	12	15	15	9			15
	20	8.7	19	15	17	16	12528	14	12628	15	12728	10	12828	16
	25	9.7	20	16	19	17	15	15	17	17	11			17
	30	10.5	21	17	21	18	15	15	19	19	11			17
Blue 0.040"	10	7.9	16	13	17	15	11	11	13	13	8			14
	15	9.9	18	16	20	17	13	13	16	16	10			16
	20	11.3	20	17	23	19	12518	15	12618	18	12718	11	12818	18
	25	12.6	22	19	25	20	17	17	19	19	12			20
	30	13.8	24	21	26	21	18	18	20	20	13			21
Purple 0.045"	10	10.0	18	15	18	24	12	12	15	15	9			17
	15	12.3	21	17	23	26	15	15	20	20	11			20
	20	14.3	24	20	25	29	17	17	21	21	13	12868		22
	25	15.9	26	22	28	32	18	18	23	23	14			23
	30	17.3	28	23	29	34	19	19	25	25	15			24
Gray 0.048"	10	11.4	2	16	21	20	14	14	18	18	10			19
	15	14.2	24	20	25	25	17	17	21	21	12			23
	20	16.2	27	22	27	29	18	18	24	24	13	12848		26
	25	18.2	29	24	30	29	20	20	26	26	15			29
	30	19.7	31	26	31	31	21	21	27	27	16			30
Green 0.050"	10	13.0	20	16	20	19	14	14	16	16	11			17
	15	16.0	24	20	25	21	17	17	20	20	13			21
	20	18.5	27	22	27	22	19	19	22	22	15	12838		24
	25	20.7	29	24	29	26	22	22	24	24	16			25
	30	22.5	31	26	30	28	24	24	26	26	17			27
Olive 0.059"	10	16.7	23	18	23	22	17	17	21	21	12			22
	15	20.5	28	23	28	27	20	20	25	25	15			27
	20	23.8	32	26	32	30	22	22	28	28	16	12888		30
	25	26.9	34	29	35	33	24	24	30	30	17			33
	30	29.1	37	31	38	36	26	26	33	33	19			35
Red 0.030"	10	17.8	21	17	15	24	15	15	18	18	13			19
	15	21.9	26	21	26	26	18	18	22	22	15			24
	20	25.2	29	24	28	29	21	21	25	25	18	12858		26
	25	28.4	31	27	31	32	23	23	28	28	19			27
	30	30.7	34	29	34	34	25	25	30	30	19			27

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 khaki colored flipper with dust cover to protect bearing.
- Six color coded nozzles to identify flow rates.
- 10-32 UNF thread for installing into Rigid Risers, tubing & 1/2" threaded adapters.
- UV stabilized materials for long life.



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 & Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
0.035" Brown	20025	50	50	12.7
0.04" Blue	20015	50	50	12.7
0.05" Green	20035	50	50	12.7
0.06" Red	20055	50	50	12.7
0.07" Orange	20075	50	50	12.7
0.08" Gray	20045	50	50	12.7

Ordering Information - Inverted Rotor Spray™

Nozzle Size & Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
0.035" Brown	20125	50	50	12.7
0.04" Blue	20115	50	50	12.7
0.05" Green	20135	50	50	12.7
0.06" Red	20155	50	50	12.7
0.07" Orange	20175	50	50	12.7
0.08" Gray	20145	50	50	12.7

Ordering Information - Vari-Rotor Spray™

Nozzle Size & Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
0.06" Max Black	20205	25	50	12.2

Ordering Information - Micro Stake Assembly with 36" tube & adapter

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Micro Stake Assembly	54238	100	1	14.5



Rotor Spray™
10-32 UNF Thread



Inverted Rotor Spray™
10-32 UNF Thread



Vari-Rotor Spray™
10-32 UNF Thread



Performance Chart - Rotor Spray™ & Inverted Rotor Spray™

Performance			Rotor Spray™		Inverted Rotor Spray™	
Nozzle Size & Color	Pressure (psi)	Flow (gph)	Tested 8" above ground		Tested 2.6 ft above ground	Tested 6.6 ft above ground
			Diameter (ft)	Stream Height (in)	Diameter (ft)	Diameter (ft)
0.035" Brown	15	8.1	15	10	13.2	17.9
	20	9.4	17	11	13.8	19.4
	25	10.5	17	13	13.8	20.3
0.04" Blue	15	9.8	17	11	13.9	18.5
	20	11.7	17	12	14.8	19.4
	25	13.0	17	13	15.7	20.3
0.05" Green	15	16.8	19	14	13.9	19.1
	20	19.5	21	16	14.8	20.0
	25	22.0	21	21	15.7	20.9
0.06" Red	30	24.0	23	24	16.6	21.8
	15	22.5	23	21	14.5	20.4
	20	26.5	23	23	15.4	20.8
0.07" Orange	25	30.0	27	27	16.0	22.2
	30	33.0	27	28	16.5	24.0
	15	27.0	25	16	15.1	21.2
0.08" Gray	20	31.5	27	19	15.6	23.0
	25	30.0	27	27	16.0	22.2
	30	39.0	29	24	17.2	24.4
0.08" Gray	15	32.5	25	18	15.1	21.2
	20	39.0	27	24	15.6	23.0
	25	43.5	29	27	16.3	23.9
	30	48.0	31	28	17.2	24.4



Micro Stake Assembly with 36" tube & Self Piercing Adapter



This product has been independently tested by the Center for Irrigation Technology, California State University, Fresno.



Performance Chart - Vari-Rotor Spray™

			Vari-Rotor Spray™	
Type			Tested 0.2m above ground	
Nozzle Size & Color	Pressure (psi)	Flow (gph)	Diameter (ft)	Stream Height (in)
0.06" Black	15	0-22.0	0-23	0-21
	20	0-26.0	0-23	0-23
	25	0-30.0	0-27	0-27
	30	0-33.0	0-27	0-28

Specifications

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

Rotor Rain™ Mini Sprinklers

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

Features

- 'C' Frame design for high distribution uniformity.
- 23° trajectory
- Full flow spinner suspended between two bearings for reliable performance.
- Color coded nozzles to identify flow rates.
- Rotor can be replaced with break-off spray deflector for close-in watering of immature trees.
- UV stabilized materials for long life.

ACTUAL SIZE



Rotor Rain™
1/2" Male Thread



Applications

Vines, bananas and tree crops such as citrus and apples.

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

Nozzle Size & Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
0.035" Black	20655	100	10	25.2
0.040" White	20665	100	10	25.2
0.050" Brown	20675	100	10	25.2
0.055" Green	20535	100	10	25.2
0.070" Blue	20515	100	10	25.2
0.075" Gray	20545	100	10	25.2
0.080" Yellow	20595	100	10	25.2
0.085" Olive	20585	100	10	25.2
0.095" Red	20555	100	10	25.2
0.100" Orange	20575	100	10	25.2
0.110" Purple	20565	100	10	25.2

Specifications

	Rotor Rain™ 1/2"	UV Stabilized Materials	Base/Connection Type
HEIGHT	2.2"	SPINNER nylon	INLET thread 1/2" MNPT
WIDTH	1.9"	FRAME acetal	
WEIGHT (approx.)	0.37 oz	NOZZLE acetal	



Socket Driver for Rotor Rain™ Plus

*Refer to pages 44 & 45 for Socket Driver information.



Performance Chart - Rotor Rain™

Nozzle Size & Color	Pressure (psi)	Flow (gph)	Tested 8" above ground		
			Diameter (ft)	Stream Height (ft)	Deflector Diameter (ft)
0.035" Black	15	8.0	11.5	0.8	
	20	9.3	11.8	0.8	7.0
	25	10.5	12.4	0.9	
	30	11.5	12.8	1.0	
0.040" White	15	9.2	14.4	1.1	
	20	11.0	16.4	1.2	7.0
	25	12.3	18.4	1.3	
	30	13.6	20.1	1.3	
0.050" Brown	15	14.6	14.7	1.1	
	20	16.9	16.4	1.1	7.1
	25	18.9	18.4	1.2	
	30	20.7	20.3	1.3	
0.055" Green	15	20.0	26.0	1.8	
	20	23.5	30.0	1.8	9.2
	25	26.5	30.0	1.8	
	30	29.2	30.0	2.1	
0.070" Blue	15	26.5	30.0	2.2	
	20	31.0	34.0	2.4	9.2
	25	35.0	34.0	2.5	
	30	38.5	34.0	2.6	
0.075" Gray	15	32.5	34.0	2.4	
	20	38.5	34.0	2.6	9.2
	25	44.0	34.0	2.7	
	30	49.0	34.0	2.8	
0.080" Yellow	15	40.0	30.0	2.1	
	20	47.0	34.0	2.5	9.8
	25	53.0	38.0	2.8	
	30	58.5	38.0	3.1	
0.085" Olive	15	44.0	34.0	2.2	
	20	51.0	34.0	2.6	9.8
	25	58.0	38.0	2.8	
	30	63.5	38.0	2.9	
0.095" Red	15	52.5	34.0	2.2	
	20	61.0	38.0	2.7	10.5
	25	69.0	42.0	3.1	
	30	76.0	42.0	3.4	
0.100" Orange	15	63.5	38.0	2.2	
	20	75.0	38.0	2.5	10.5
	25	85.0	38.0	2.8	
	30	94.5	40.0	3.0	
0.110" Purple	15	70.5	38.0	2.6	
	20	83.0	42.0	2.9	13.1
	25	94.5	42.0	3.2	
	30	105.0	42.0	3.5	



This product has been independently tested at 15 psi by the Center for Irrigation Technology, California State University, Fresno.

Recommended riser tubing sizes

Install on 5 mm Micro tubing

0.035" Black	0.040" White	0.050" Brown	0.055" Green
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Install on 10 mm or 13 mm tubing

0.070" Blue	0.075" Grey	0.080" Yellow	0.085" Olive	0.095" Red	0.100" Orange	0.110" 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.
- Easy turn field disassembly.
- Color coded flow rates.
- Quick action frame removal for ease of field disassembly.
- 21° trajectory
- Long field life bearing and spinner.
- Standard or Deflector spinner for close in watering of young trees.
- Suspension hole for trellis applications.
- Available in 3/8" or 1/2" male threaded inlets.



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"

Nozzle Size & Color	Part Number Standard Spinner	Part Number w/Deflector Spinner	Pack Quantity	Packs Per Carton	Carton (lbs)
0.031" Brown	22015	22115	50	20	25.7
0.035" Dark Blue	22025	22125	50	20	25.7
0.043" Gray	22035	22135	50	20	25.7
0.047" Black	22045	22145	50	20	25.7
0.055" Orange	22055	22155	50	20	25.7
0.063" Red	22065	22165	50	20	25.7
0.071" Light Blue	22075	-	50	20	25.7
0.079" Yellow	22085	-	50	20	25.7
0.091" Purple	22095	-	50	20	25.7
0.098" Olive	22105	-	50	20	25.7

Ordering Information - Rotor Rain™ Plus 1/2"

Nozzle Size & Color	Part Number Standard Spinner	Part Number w/Deflector Spinner	Pack Quantity	Packs Per Carton	Carton (lbs)
0.031" Brown	21935	21975	50	18	27.1
0.035" Dark Blue	21945	21985	50	18	27.1
0.043" Gray	21955	21995	50	18	27.1
0.047" Black	21965	22005	50	18	27.1
0.055" Orange	22335	22395	50	18	27.1
0.063" Red	22345	22405	50	18	27.1
0.071" Light Blue	22355	-	50	18	27.1
0.079" Yellow	22365	-	50	18	27.1
0.091" Purple	22375	-	50	18	27.1
0.098" Olive	22385	-	50	18	27.1

Specifications

	Rotor Rain™ Plus 3/8"	Rotor Rain™ Plus 1/2"
UV STABILIZED MATERIALS	FRAME acetal SPINNER nylon NOZZLE 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

0.031" Brown	0.035" Dk. Blue	0.043" Gray	0.047" Black	0.055" Orange
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Install on 10 mm or 13 mm tubing

0.063" Red	0.071" Lt. Blue	0.079" Yellow	0.091" Purple	0.098" Olive
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Easy turn field disassembly



Two stage watering for targeted application



Removable Deflector Tab for two stage watering



Rotor Rain™ Plus Stake Assembly with 24" Tube & Self Piercing Adapter

* Refer to pages 44 & 45 for Sprinkler Accessories.

Performance Chart

Nozzle Size & Color	Pressure (psi)	Flow (gph)	Tested at 8" above ground		
			Diameter (ft)	Stream Height (ft)	Deflector Diameter (ft)
0.031" Brown	15	5.8	12	1.0	5.2
	20	6.6	14	1.2	
	25	7.7	16	1.3	
	30	8.5	17	1.4	
0.035" Dark Blue	35	9.2	18	1.4	5.2
	15	7.4	16	1.3	
	20	9.0	18	1.6	
	25	10.0	19	1.7	
0.043" Gray	30	11.1	19	1.8	5.4
	35	11.9	20	1.8	
	15	11.6	16	0.8	
	20	13.5	18	1.0	
0.047" Black	25	15.3	19	1.3	7.2
	30	16.6	19	1.2	
	35	18.0	20	1.2	
	15	14.3	19	1.2	
0.055" Orange	20	16.4	20	1.3	6.9
	25	18.5	20	1.3	
	30	20.1	20	1.3	
	35	21.7	20	1.3	
0.063" Red	15	18.8	20	1.2	6.2
	20	21.9	20	1.3	
	25	24.8	21	1.4	
	30	27.2	21	1.5	
0.071" Light Blue	35	29.6	21	1.5	N/A
	15	25.4	21	1.2	
	20	29.3	23	1.3	
	25	33.0	24	1.5	
0.079" Yellow	30	36.5	24	1.4	N/A
	35	39.1	25	1.3	
	15	32.2	22	1.6	
	20	37.8	25	1.6	
0.091" Purple	25	42.3	26	1.7	N/A
	30	46.5	27	1.8	
	35	50.2	27	1.7	
	15	39.9	28	2.8	
0.098" Olive	20	46.5	32	2.9	N/A
	25	52.0	34	3.2	
	30	57.3	35	3.3	
	35	62.1	35	3.3	
NEW 0.063" Red	15	53.4	29	2.2	N/A
	20	62.3	32	2.3	
	25	70.0	33	2.4	
	30	77.4	34	2.5	
NEW 0.063" Red w/ Deflector Spinner	35	84.0	34	2.5	N/A
	15	63.9	30	1.8	
	20	73.4	34	2.5	
	25	82.4	35	2.5	
NEW 0.063" Red w/ Deflector Spinner	30	90.6	36	2.4	N/A
	35	98.3	35	2.3	

Ordering Information - Rotor Rain™ Plus 3/8" Stake Assembly with 24" Tube & Adapter

Nozzle Size & Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
0.031" Brown - Standard Spinner	56175	10	8	11.7
0.035" Dark Blue - Standard Spinner	56185	10	8	11.7
0.043" Gray - Standard Spinner	56195	10	8	11.7
0.047" Black - Standard Spinner	56205	10	8	11.7
0.055" Orange - Standard Spinner	56215	10	8	11.7
0.063" Red - Standard Spinner	56225	10	8	11.7
0.031" Brown w/ Deflector Spinner	56275	10	8	12.5
0.035" Dark Blue w/ Deflector Spinner	56285	10	8	12.5
0.043" Gray w/ Deflector Spinner	56295	10	8	12.5
0.047" Black w/ Deflector Spinner	56305	10	8	12.5
0.055" Orange w/ Deflector Spinner	56315	10	8	12.5
NEW 0.063" Red w/ Deflector Spinner	56265	10	8	12.5

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, fertilizers 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
- Color coded bases for easy flow rate identification.
- Easily disassembled for in-field maintenance.
- High grade silicone diaphragm for long service life.



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 & Color	Part Number Standard Spinner	Part Number w/Deflector Spinner	Pack Quantity	Packs Per Carton	Carton (lbs)
0.031" Brown	32215	32315	50	20	25.7
0.035" Dark Blue	32225	32325	50	20	25.7
0.043" Gray	32235	32335	50	20	25.7
0.047" Black	32245	32345	50	20	25.7
0.055" Orange	32255	32355	50	20	25.7
0.063" Red	32265	32365	50	20	25.7
0.071" Light Blue	32275	32375	50	20	25.7
0.079" Yellow	32285	32385	50	20	25.7
0.091" Purple	32295	32395	50	20	25.7
0.098" Olive	32305	32405	50	20	25.7

Specifications

		Roto Rain™ <i>Plus</i> 3/8"
UV STABILIZED MATERIAL	FRAME SPINNER NOZZLE DIAPHRAGM	acetal nylon acetal silicone rubber
BASE/CONNECTION TYPE: INLET		thread 3/8" BSPM





Rotor Rain™ Plus
3/8" PC Stake
Assembly with
24" Tube & Self
Piercing Adapter

Socket Driver
for Rotor Rain™ Plus

* Refer to pages 44 & 45
for Sprinkler Accessories.

Performance Chart

Nozzle Size & Color	Pressure (psi)	Flow (gph)	Tested 10" above ground		
			Diameter (ft)	Stream Height (ft)	Deflector Diameter (ft)
0.031" Brown PC	20	5.7	17	1.6	5.2
	35	7.2	20	1.8	
	50	7.0	20	1.9	
	60	6.5	19	1.8	
0.035" Dark Blue PC	20	7.3	19	1.8	5.6
	35	9.0	21	2.1	
	50	8.8	20	2.0	
0.043" Gray PC	20	10.9	19	1.8	6.6
	35	12.8	24	2.1	
	50	12.7	23	2.0	
0.047" Black PC	20	13.4	20	2.0	7.2
	35	15.2	26	2.3	
	50	14.8	25	2.2	
0.055" Orange PC	20	17.2	22	2.1	7.2
	35	18.0	24	2.3	
	50	17.6	24	2.1	
0.063" Red PC	20	19.8	23	2.1	7.2
	35	21.5	24	2.3	
	50	20.7	24	2.1	
0.071" Light Blue PC	20	21.4	18	1.8	7.2
	35	23.7	20	2.0	
	50	23.2	18	1.9	
0.079" Yellow PC	20	22.6	17	1.8	4.0
	20	23.5	20	1.9	
	35	24.4	19	2.0	
0.091" Purple PC	50	25.3	20	2.0	3.9
	60	25.3	20	1.9	
	20	25.4	16	1.6	
0.098" Olive PC	35	26.9	16	1.6	4.2
	50	27.1	16	1.6	
	60	26.6	16	1.6	
0.098" Olive PC	20	32.6	17	1.9	12.5
	35	35.4	18	2.0	
	50	36.1	18	2.0	
0.098" Olive PC	60	35.6	18	1.9	12.5

Ordering Information - Rotor Rain™ Plus PC Stake Assembly w/24" Tube & Adapter

Nozzle Size & Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
0.031" Brown - Standard Spinner	56325	10	8	11.7
0.035" Dark Blue - Standard Spinner	56335	10	8	11.7
0.043" Gray - Standard Spinner	56345	10	8	11.7
0.047" Black - Standard Spinner	56355	10	8	11.7
0.055" Orange - Standard Spinner	56365	10	8	11.7
0.063" Red - Standard Spinner	56375	10	8	11.7
0.071" Light Blue - Standard Spinner	56385	10	8	11.7
0.079" Yellow - Standard Spinner	56395	10	8	11.7
0.091" Purple - Standard Spinner	56405	10	8	11.7
0.098" Olive - Standard Spinner	56415	10	8	11.7
0.031" Brown w/ Deflector Spinner	56425	10	8	12.5
0.035" Dark Blue w/ Deflector Spinner	56435	10	8	12.5
0.043" Gray w/ Deflector Spinner	56445	10	8	12.5
0.047" Black w/ Deflector Spinner	56455	10	8	12.5
0.055" Orange w/ Deflector Spinner	56465	10	8	12.5
NEW 0.063" Red w/ Deflector Spinner	56475	10	8	12.5
NEW 0.071" Light Blue w/ Deflector Spinner	56485	10	8	12.5
NEW 0.079" Yellow w/ Deflector Spinner	56495	10	8	12.5
NEW 0.091" Purple w/ Deflector Spinner	56505	10	8	12.5
NEW 0.098" Olive w/ Deflector Spinner	56515	10	8	12.5

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 colored spinner.
- Inverted model has a 0° flat trajectory with khaki colored spinner.
- Suitable for recycled water applications subject to adequate filtration.
- Easily taken apart for servicing.
- UV stabilized materials for long life.

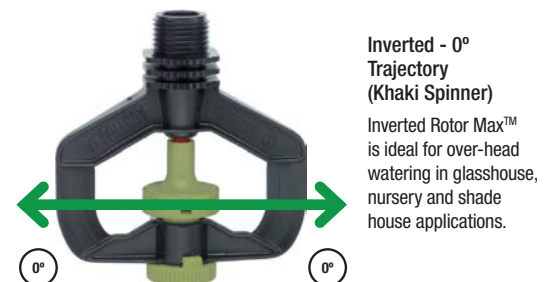
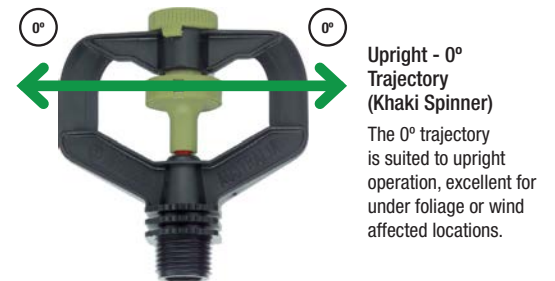
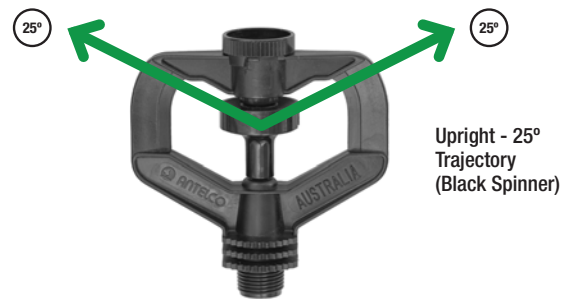
Rotor Max™ Deflector

- 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.



Performance Chart

Nozzle Size & Color	Pressure (psi)	Flow (gpm)	Upright - 25° on 8" Riser		Inverted - 0° on 6.6 ft Riser
			Diameter (ft)	Stream Height (ft)	Diameter (ft)
0.080" Yellow	15	0.6	22.0	3.2	24.0
	20	0.8	26.0	3.6	27.0
	30	0.9	29.5	3.6	29.5
	40	1.0	31.5	3.9	31.0
0.095" Green	15	1.0	25.0	3.2	27.0
	20	1.2	27.0	3.6	30.0
	30	1.4	31.5	3.6	32.5
0.110" Red	40	1.6	32.5	3.9	33.5
	15	1.3	36.0	3.0	36.0
	20	1.5	39.0	3.5	39.0
0.130" Black	30	1.8	43.0	4.0	43.0
	40	2.1	43.0	4.5	43.0
	15	1.7	36.0	3.0	36.0
0.150" Purple	20	2.0	39.0	3.5	39.0
	30	2.4	43.0	4.0	43.0
	40	2.8	45.0	4.2	45.0
	15	2.4	40.0	2.3	40.0
	20	2.8	42.0	2.7	42.0
	30	3.7	46.0	3.4	46.0
	40	4.2	45.0	3.9	45.0

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

Nozzle Size & Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
0.080" Yellow	21075	20	10	14.1
0.095" Green	21085	20	10	14.1
0.110" Red	21055	20	10	14.1
0.130" Black	21005	20	10	14.1
0.150" Purple	21065	20	10	14.1

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

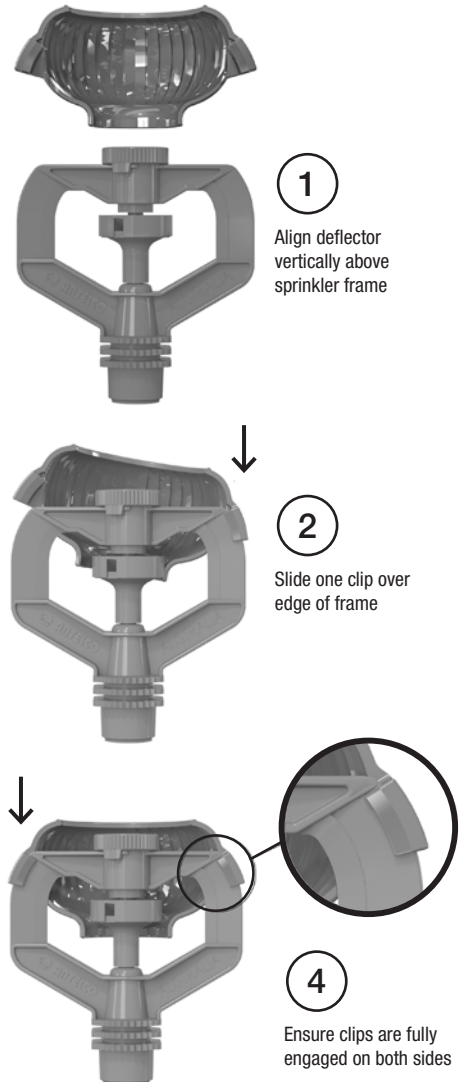
Nozzle Size & Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
0.080" Yellow	21585	20	10	14.1
0.095" Green	21595	20	10	14.1
0.110" Red	21555	20	10	14.1
0.130" Black	21505	20	10	14.1
0.150" Purple	21565	20	10	14.1

Specifications

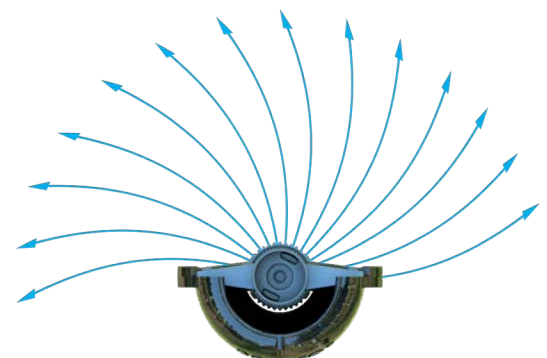
Dimensions Assembled		UV Stabilized Materials		Base/Connection Type
HEIGHT	3.8"	FRAME	polypropylene	INLET thread 1/2" BSPM
WIDTH	3.5"	SPINNER	acetal	
BREADTH	1.2"	NOZZLE	acetal	
WEIGHT (approx.)	1.3 oz	BEARING	acetal	
		BEARING PIN	nylon	

Ordering Information - Rotor Max™ 180° Deflector

Nozzle Size & Color	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Deflector 180°	21365	10	28	10.6



Rotor Max™ 180° Deflector



Rotor Max™ has been independently tested by the Australian Irrigation Technology Centre, Report No. A95003.

Sprinkler Accessories

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



Sprinkler Adapter

Perfect for suspended trellis wire installations, this adapter comes in 5 mm, 10 mm, and 13 barb sizes.



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 Adapter

Ideal for 0.2" (5 mm) OD fibreglass or steel rod applications, available in 5 mm and 10 mm barb sizes.

Collar Pipe Sprinkler Adapter

Designed for 1.0" OD uPVC or Galvanized riser installations (26.7 mm OD), this adapter is available in 5 mm, 10 mm, and 13 mm barb sizes.



Rotor Rain™ Plus Socket Driver

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	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Socket Driver for Rotor Rain™ Plus	51905	1	180	37.9



Socket Driver for Rotor Rain™ Plus

Ordering Information - Rotor Stake™ 3/8" Female Thread

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Rotor Stake™ x 5 mm barb adapter	40555	25	6	11.2
Rotor Stake™ x 10 mm barb adapter	40515	25	6	11.4
Rotor Stake™ x 13 mm barb adapter	40535	25	6	11.7
Rotor Stake™ x 24" (5mm) tube & 0.16" barb Self Piercing Adapter	50695	15	6	11.7



Rotor Stake™

Rotor Stake™ with Tube and Self Piercing Adapter

Ordering Information - Sprinkler Adapter 3/8" Female Thread

Description	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Sprinkler Adapter 3/8" Female Thread x 5 mm	40755	50	40	15.0
Sprinkler Adapter 3/8" Female Thread x 10 mm	40715	50	34	14.7
Sprinkler Adapter 3/8" Female Thread x 13 mm	40735	50	30	13.6



Sprinkler Adapter

Ordering Information - Collar Pipe Sprinkler Adapter 3/8" Female Thread

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Collar Pipe Sprinkler Adapter x 5 mm barb	40655	50	10	12.1
Collar Pipe Sprinkler Adapter x 10 mm barb	40615	50	10	12.3
Collar Pipe Sprinkler Adapter x 13 mm barb	40635	50	10	12.8



Collar Pipe Sprinkler Adapter

Ordering Information - Rod Stake Sprinkler Adapter 3/8" Female Thread

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Rod Stake Sprinkler Adapter 3/8" Female Thread x 5 mm barb	40815	50	35	15.6
Rod Stake Sprinkler Adapter 3/8" Female Thread x 10 mm barb	40855	50	24	12.3



Rod Stake Sprinkler Adapter

Green Back[®] Valves

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

Features

- Simple quarter turn operation and straight through flow.
- Operating range up to 45 psi.
- Green Back[®] cap for standard irrigation applications.
- Purple Back[™] lilac cap easily identifies recycled water - not for human consumption.



Applications

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



Vari-Flow[™] Valve barb x barb



Green Back[®] Valve



Purple Back[™] Valve

Ordering Information - Vari-Flow[™] Valves

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Vari-Flow [™] Valve barb x barb 0.18"	42155	50	50	14.8
Vari-Flow [™] Valve 10-32 UNF thread x 0.18" barb	42135	50	50	15.1
Vari-Flow [™] Valve thread x thread 10-32 UNF	42115	50	50	14.5

Ordering Information - Green Back[®] Valves

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Green Back [®] Valve 13mm - 1/2" (tube .520 ID)	45505	25	20	21.4
Green Back [®] Valve 14mm - 1/2" (tube .525 - .590 ID)	45575	25	20	21.4
Green Back [®] Valve 15mm - 1/2" (tube .580 - .590 ID)	45555	25	20	21.4
Green Back [®] Valve 16mm - 5/8" (tube .570 - .620 ID)	45515	25	20	23.6
Green Back [®] Valve 18mm (tube .660 - .720 ID)	45565	25	8	20.2
Green Back [®] Valve 19mm (tube .748 ID)	45525	25	8	22.3
Green Back [®] Valve 21mm - 3/4" (tube .810 - .820 ID)	45535	25	8	20.7
Green Back [®] Valve 25mm - 1" (tube 1.050 ID)	45545	20	4	15.7

Ordering Information - Purple Back[™] Valves

Base type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Purple Back [™] Valve 13mm - 1/2" (tube .520 ID)	46505	25	20	21.4
Purple Back [™] Valve 16mm - 5/8" (tube .570 - .620 ID)	46515	25	20	23.6
Purple Back [™] Valve 21mm - 3/4" (tube .810 - .820 ID)	46535	25	8	20.7
Purple Back [™] Valve 25mm - 1" (tube 1.050 ID)	46545	20	4	15.7

Specifications - Vari-Flow[™] Valves

		Barb	Thread
UV STABILIZED MATERIAL	BODY KNOB	acetal HDPE	acetal HDPE
BASE/CONNECTION TYPE		barb 0.18"	10-32 UNF thread

Specifications - Green Back[®] and Purple Back[™] Valves

		13 mm, 14 mm 15 mm, 16 mm	18 mm, 19 mm 21 mm	25 mm
UV STABILIZED MATERIAL	BODY STEM COVER SEAL	acetal polypropylene acetal	acetal polypropylene acetal TPV Elastomer	acetal polypropylene acetal
BASE/CONNECTION TYPE		barb	barb	barb

Threaded Valves

Threaded flow control valves for low pressure irrigation systems.

Features

- 1/2" MNPT, 3/4" MNPT or 1" MNPT threaded inlet
- Simple on-off operation and straight through flow.
- Operating pressure range up to 45 psi.
- Green Back® cap for standard irrigation applications.
- Purple Back™ lilac cap easily identifies recycled water - not for human consumption.



Threaded Purple Back™ Valve



Threaded Green Back® Valve

Applications

Individual dripline control, tank valves, drain valves.

Ordering Information - Green Back® Threaded Valves

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Green Back® Valve 13 mm barb x 1/2" MNPT	49005	25	15	18.2
Green Back® Valve 14 mm barb x 1/2" MNPT	49015	25	15	18.3
Green Back® Valve 15 mm barb x 1/2" MNPT	49025	25	15	18.6
Green Back® Valve 16 mm barb x 1/2" MNPT	49035	25	15	19.3
Green Back® Valve 18 mm barb x 3/4" MNPT	46875	25	8	23.8
Green Back® Valve 21 mm barb x 3/4" MNPT	46895	25	8	23.3
NEW Green Back® Valve 25 mm Barb x 1" MNPT	46635	20	4	17.0

Ordering Information - Purple Back™ Threaded Valves

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Purple Back™ Valve 13 mm barb x 1/2" MNPT	49105	25	15	18.6
Purple Back™ Valve 14 mm barb x 1/2" MNPT	49115	25	15	18.6
Purple Back™ Valve 15 mm barb x 1/2" MNPT	49125	25	15	18.7
Purple Back™ Valve 16 mm barb x 1/2" MNPT	49135	25	15	19.3
Purple Back™ Valve 18 mm barb x 3/4" MNPT	46915	25	8	23.8
Purple Back™ Valve 21 mm barb x 3/4" MNPT	46935	25	8	23.3
NEW Purple Back™ Valve 25 mm Barb x 1" MNPT	46825	20	4	17.0

Specifications - Threaded Valves

		1/2" MNPT	3/4" MNPT	1" MNPT
UV STABILIZED MATERIAL	BODY	acetal	acetal	acetal
	STEM	polypropylene	polypropylene	polypropylene
	COVER SEAL	acetal	acetal	acetal
			TPV Elastomer	
BASE/ CONNECTION TYPE		1/2" MNPT thread x barb	3/4" MNPT thread x barb	1" MNPT thread x barb



eZyvalve4[™]

A compact valve box with 4 internal solenoid valves available in models to suit either 24 Vac or 9 Vdc latching irrigation controller. The eZyvalve4[™] 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 stabilized 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" MNPT threaded inlet and outlet connections.
- Patented (US patent 9936653) functionality.

Performance Chart

Flow Rate (gpm)	Pressure Loss (psi)
3	5
4	9
5	14
6	20
7	27
8	34

Ordering Information - eZyvalve4[™]

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
eZyvalve4 [™] Valve Box 4 Solenoid Valves 3/4" NPT -24 Vac	16615	1	5	12.3
eZyvalve4 [™] Valve Box 4 Solenoid Valves 3/4" NPT 9 Vdc Latch	16635	1	5	12.3

Ordering Information - eZyvalve4[™] Repair Kits

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
eZyvalve4 [™] 9 Vdc Solenoid Kit	16601	1	60	17.8
eZyvalve4 [™] Hardware Kit	16602	1	560	31.4
eZyvalve4 [™] 24 Vac Solenoid Kit	16603	1	60	17.8
eZyvalve4 [™] Diaphragm Kit (suits 24 Vac or 9 Vdc Solenoids)	16604	1	125	7.0

Specifications

Dimensions Packaged	Connection Type
LENGTH 4.1 in DEPTH 7.2 in WIDTH 7.2 in WEIGHT (approx.) - 24 Vac 2 lbs 6 oz WEIGHT (approx.) - 9 Vdc 2 lbs 9 oz	INLET 3/4" NPT OUTLET 3/4" NPT x 4 Outlets



Applications

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



eZyvalve4™ - 24Vac

The eZyvalve4™ comes pre-assembled with no internal pipe connections for fast and easy DIY installation and is made from high strength UV stabilized materials.

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



Operating Specifications - 24Vac

FLOW	0.25 gpm - 8 gpm	
PRESSURE	- 24 Vac	7 psi - 108 psi
AMBIENT TEMPERATURE		35°F - 140°F
ELECTRICAL	- 24 Vac	24 Vac, inrush current 291 mA, holding current 237 mA at 60 Hz



eZyvalve4™ - 9Vdc

The eZyvalve4™ 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

FLOW	0.25 gpm - 8 gpm	
PRESSURE	- 9 Vdc	7 psi - 108 psi
AMBIENT TEMPERATURE		35°F - 140°F
ELECTRICAL	- 9 Vdc	9 Vdc, inrush current 1200 mA

Pressure Regulating Devices

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

Features

Pressure Regulators:

- 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

Reducing mains pressure to optimum micro irrigation operating pressure.

Hose Bibb Vacuum Breaker:

- Corrosion-resistant vacuum breaker prevents back siphonage through the exterior hose bibb connection.
- High-strength, glass reinforced Zytel[®].
- Operating pressure up to 125 psi.



NEW Hose Bibb Vacuum Breaker



Specifications - Pressure Regulators

	Pressure Regulator Low Flow	Pressure Regulator Low to Med Flow	Pressure Regulator High Flow
OUTLET PRESSURE	10, 15 & 25 psi	10, 20, 25, 30, 40 & 50 psi	30, 40 & 50 psi
FLOW RANGE	0.1 - 8 gpm	0 - 12 gpm	1 - 35 gpm
CONNECTION TYPE	INLET 3/4" FHT OUTLET 3/4" MHT	INLET 3/4" FNPT OUTLET 3/4" FNPT	INLET 3/4" FNPT OUTLET 3/4" FNPT
CONNECTION TYPE		INLET 3/4" FNPT OUTLET 3/4" MNPT	INLET 1" FNPT OUTLET 1" FNPT
CONNECTION TYPE		INLET 3/4" FHT OUTLET 3/4" FHT	

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.

Specifications - Hose Bibb Vacuum Breaker

Operation	Connection
Operating Pressure Range:	INLET BASE 3/4" FHT OUTLET 3/4" MHT



Pressure Regulator
Low Flow

NEW



Pressure Regulator
Low to Med Flow
(3/4" FNPT x 3/4" FNPT)

NEW



Pressure Regulator
High Flow (3/4"
FNPT x 3/4" FNPT)

Ordering Information - Pressure Regulators Low Flow

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
NEW 3/4" FHT Inlet x 3/4" MHT Outlet - 10 psi	73005	25	15	27.6
3/4" FHT Inlet x 3/4" MHT Outlet - 15 psi	73015	25	15	27.6
3/4" FHT Inlet x 3/4" MHT Outlet - 25 psi	73025	25	15	27.6

* Operating Pressure 0 - 100 psi
* Flow Range 0.1 - 8 gpm

NEW

Ordering Information - Pressure Regulators Low to Med Flow

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
3/4" FNPT Inlet x 3/4" FNPT Outlet - 10 psi	73105	25	8	33.5
3/4" FNPT Inlet x 3/4" FNPT Outlet - 15 psi	73115	25	8	33.5
3/4" FNPT Inlet x 3/4" FNPT Outlet - 20 psi	73125	25	8	33.5
3/4" FNPT Inlet x 3/4" FNPT Outlet - 25 psi	73135	25	8	33.5
3/4" FNPT Inlet x 3/4" FNPT Outlet - 30 psi	73145	25	8	33.5
3/4" FNPT Inlet x 3/4" FNPT Outlet - 40 psi	73155	25	8	33.5
3/4" FNPT Inlet x 3/4" FNPT Outlet - 50 psi	73165	25	8	33.5
3/4" FNPT Inlet x 3/4" MNPT Outlet - 10 psi	73205	25	8	33.5
3/4" FNPT Inlet x 3/4" MNPT Outlet - 15 psi	73215	25	8	33.5
3/4" FNPT Inlet x 3/4" MNPT Outlet - 20 psi	73225	25	8	33.5
3/4" FNPT Inlet x 3/4" MNPT Outlet - 25 psi	73235	25	8	33.5
3/4" FNPT Inlet x 3/4" MNPT Outlet - 30 psi	73245	25	8	33.5
3/4" FNPT Inlet x 3/4" MNPT Outlet - 40 psi	73255	25	8	33.5
3/4" FNPT Inlet x 3/4" MNPT Outlet - 50 psi	73265	25	8	33.5
3/4" FHT Inlet x 3/4" MHT Outlet - 10 psi	73705	25	8	33.5
3/4" FHT Inlet x 3/4" MHT Outlet - 15 psi	73715	25	8	33.5
3/4" FHT Inlet x 3/4" MHT Outlet - 20 psi	73725	25	8	33.5
3/4" FHT Inlet x 3/4" MHT Outlet - 25 psi	73735	25	8	33.5
3/4" FHT Inlet x 3/4" MHT Outlet - 30 psi	73745	25	8	33.5
3/4" FHT Inlet x 3/4" MHT Outlet - 40 psi	73755	25	8	33.5
3/4" FHT Inlet x 3/4" MHT Outlet - 50 psi	73765	25	8	33.5

* Operating Pressure 0 - 160 psi
* Flow Range 0 - 12 gpm

NEW

Ordering Information - Pressure Regulators High Flow

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
3/4" FNPT Inlet x 3/4" FNPT Outlet - 30 psi	73505	25	8	33.5
3/4" FNPT Inlet x 3/4" FNPT Outlet - 40 psi	73515	25	8	33.5
3/4" FNPT Inlet x 3/4" FNPT Outlet - 50 psi	73525	25	8	33.5
1" FNPT Inlet x 1" FNPT Outlet - 30 psi	73405	25	8	33.5
1" FNPT Inlet x 1" FNPT Outlet - 40 psi	73415	25	8	33.5
1" FNPT Inlet x 1" FNPT Outlet - 50 psi	73425	25	8	33.5

* Operating Pressure 10 - 120 psi
* Flow Range 1 - 35 gpm

NEW

Ordering Information - Hose Bibb Vacuum Breakers

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Vacuum Breaker w/ Hose Washer 3/4" FHT x 3/4" MHT	73605	25	25	TBA
Vacuum Breaker w/ Screen Washer 3/4" FHT x 3/4" MHT	73615	25	25	TBA

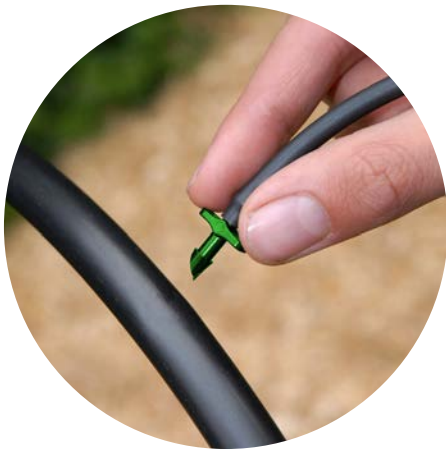
Micro Fittings

Essential components for low-pressure micro irrigation systems, used in conjunction with standard low-pressure tubing.

Features

- Micro fittings with single barb or “Quick” thread connection.
- 1/2” MNPT and FNPT Adapters suit (0.16”) 10-32 UNF or “Quick” thread emitters.
- UV stabilized materials for long life.

NEW



Applications

Home gardens, landscaping, aquariums, greenhouses and hanging baskets.



Adapter 0.16” (F) x 1/2” FNPT



1/2” Riser Adapter with 1/4” barb



Adapter “Quick” thread



Adapter 10-32 UNF thread



Adapter barb x 10-32 UNF thread



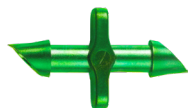
Joiner



Adapter 0.16” (F) x 1/2” MNPT



Poly Tube Hose Adapter



Joiner Self Piercing

NEW



Elbow



Tee



Cross

Ordering Information - Adapters

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Adapter 0.16” (F) (suits 10-32 UNF) x 1/2” MNPT	41075	25	50	8.9
Adapter 0.16” (F) (suits 10-32 UNF) x 1/2” FNPT	41015	25	50	10.9
Adapter 10-32 UNF thread x thread	40915	100	50	5.5
1/2” Riser Adapter with 1/4” barb	51455	25	25	17.6
Poly Tube Hose Adapter outlet size .025 OD tube x 3/4” FHT	73675	25	TBA	TBA
Adapter 0.16” “Quick” thread x thread	40925	100	50	6.4
Adapter 0.16” barb x 10-32 UNF thread	40945	100	50	6.8
Adapter 0.18” barb x 10-32 UNF thread	40995	100	50	7.0

Ordering Information - Joiners

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Joiner 0.16” barb	40145	100	50	7.0
Joiner 0.18” barb	40195	100	50	8.0
Joiner 0.16” Self Piercing Barb	40935	100	50	6.8

NEW

Ordering Information - Elbows

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Elbow 0.16” barb	40245	50	50	3.3
Elbow 0.18” barb	40295	50	50	4.1

Ordering Information - Tees

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Tee 0.16” barb	40345	50	50	4.3
Tee 0.18” barb	40395	50	50	4.3

Ordering Information - Crosses

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Cross 0.16” barb	40445	50	50	5.2
Cross 0.18” barb	40495	50	50	6.2

Micro Fittings

Essential components for low-pressure micro irrigation systems, used in conjunction with standard low-pressure tubing.

Features

- Tidy Bow™ Clip On Elbow clips over 1/4" micro tubing removing the need for cutting tube and additional micro fittings. Redirects tubing without kinking tube or flow restriction
- Ratchet Clamps secure LDPE tubing to barbed fittings.
- Saddle Clips and Clamps secure 1/4" micro tubing.
- Goof Plugs repair holes in LDPE tubing.
- UV stabilized materials for long life.



Applications

Home gardens, landscaping, greenhouses and hanging baskets.

Ordering Information - Tidy-Bow™ Clip On Elbow

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Tidy-Bow™ Clip On Elbow - Handy Pack	45342	10	50	4.0
Tidy-Bow™ Clip On Elbow	45345	50	100	18.3

Ordering Information - Ratchet Clamps

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Ratchet Clamp # 15 (tube OD .590 - .630)	44305	100	50	27.3
Ratchet Clamp # 17 (tube OD .630 - .709)	44345	100	45	24.8
Ratchet Clamp # 18 (tube OD .670 - .750)	44335	100	40	22.2
Ratchet Clamp # 20 (tube OD .749 - .827)	44295	100	40	24.5
Ratchet Clamp # 22 (tube OD .827 - .906)	44315	100	35	23.4
Ratchet Clamp # 23 (tube OD .860 - .945)	44285	100	32	23.1
Ratchet Clamp # 28 (tube OD 1.06 - 1.18)	44325	100	16	22.2

Ordering Information - Saddle Clips

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Saddle Clip 1/4" with nail	45355	100	50	12.8

Ordering Information - Saddle Clamps

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Saddle Clamp 1/4"	45395	100	50	12.8

Ordering Information - Goof Plugs

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Goof Plugs (rack of 10)	42325	10	50	3.6

Ordering Information - Micro Tube Tap Adapter

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
NEW Micro Tube Tap Adapter with Washer 3/4" FNH x 0.18" barb	41115	25	TBA	TBA



Saddle Clip



Saddle Clamp



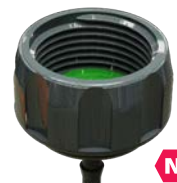
Goof (Repair) Plugs



Tidy-Bow™ Clip On Elbow



Ratchet Clamp



NEW Micro Tube Tap Adapter 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 19 mm Xpando™ Drill Bit to create clean round holes of the correct size to ensure reliable sealing.



Applications







Agricultural, horticultural, vineyard and landscape applications.

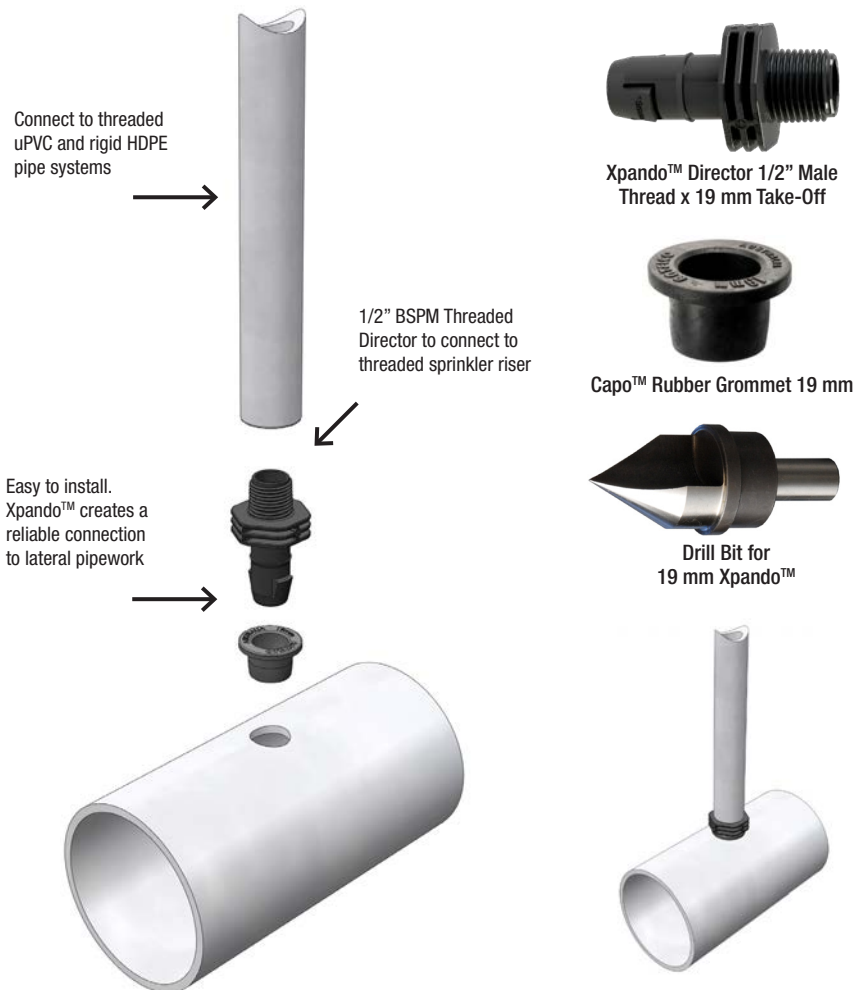
Ordering Information - Xpando™ Director

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Xpando™ Director 19 mm x 1/2" BSPM	45985	25	20	22.4
Capo™ Rubber Grommet 19 mm	45755	25	50	16.1
Drill Bit for 19 mm Xpando™	51868	1	1	0.3

Ordering Information - Xpando™ Drill Bits

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Drill Bit for Xpando™ 10 mm Fittings	51838	1	1	0.1
Drill Bit for Xpando™ 13 mm Fittings	51848	1	1	0.2
Drill Bit for Xpando™ 16 mm Fittings	51858	1	1	0.3
Drill Bit for Xpando™ 19 mm Fittings	51868	1	1	0.3

Xpando™ Director	Nom. Pipe Size (min. ID)	Min. Wall Thickness	Max. Wall Thickness	Capo™ Grommet	Hole Size Drill Bit
					
Xpando™ 19 mm x 1/2" BSPM	From 2"	0.06"	0.24"	19 mm	22 mm



Xpando™ Take-Off Fittings

Antelco Xpando™ Take-Off Fittings are a proven method of connecting low pressure irrigation tubes and driplines to polyethylene (HDPE) tubes and PVC mainlines (class 200 or 160 only).

Features

- Easy installation saves time and costs.
- Innovative Xpando™ Take-Off Adapter with collapsible barb prevents pull-out and reduces grommet damage during installation process.
- Capo™ Grommet with internal step combines with Xpando™ interference barb to hold take-off firmly in place.
- UV stabilized materials for long life.



Applications

Agricultural, horticultural, vineyard and landscape applications.

Ordering Information - Take-Off Fittings LDPE







Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Take-Off Coupling 10 mm x 14 mm	46395	25	50	11.8
Take-Off Elbow 10 mm x 14 mm	46435	25	50	15.7

Ordering Information - Xpando™ Take-Off Adapters

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Xpando™ 10 mm inlet x 14 mm Take-Off	45875	25	50	13.8
Xpando™ 10 mm inlet x 15 mm Take-Off	45885	25	50	14.5
Xpando™ 13 mm inlet x 13 mm Take-Off	45605	25	50	15.6
Xpando™ 13 mm inlet x 14 mm Take-Off	45595	25	40	13.5
Xpando™ 13 mm inlet x 15 mm Take-Off	45615	25	48	17.7
Xpando™ 16 mm inlet x 16 mm Take-Off	45635	25	32	17.7
Xpando™ 16 mm inlet x 18 mm Take-Off	45585	25	32	18.0
Xpando™ 19 mm inlet x 18 mm Take-Off	45995	25	25	19.4
Xpando™ 19 mm inlet x 19 mm Take-Off	45665	25	25	19.4
Xpando™ 19 mm inlet x 21 mm Take-Off	45675	25	25	18.7
Xpando™ 19 mm inlet x 25 mm Take-Off	45685	25	20	19.9

Ordering Information - Capo™ Rubber Grommets

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Capo™ Rubber Grommet 10 mm	45725	25	50	9.5
Capo™ Rubber Grommet 13 mm	45735	25	50	7.8
Capo™ Rubber Grommet 16 mm	45745	25	50	13.3
Capo™ Rubber Grommet 19 mm	45755	25	50	16.1

Xpando™ Take-Off Adapter	Min. ID	Min. Wall Thickness	Max. Wall Thickness	Capo™ Rubber Grommet	Hole Size Drill Bit
					
Xpando™ 10 mm x 14 mm	1" only	0.06"	0.14"	10 mm (curved)	14 mm
Xpando™ 10 mm x 15 mm					
Xpando™ 13 mm x 13 mm	From 1 1/2"	0.06"	0.09"	13 mm	16 mm
Xpando™ 13 mm x 14 mm					
Xpando™ 13 mm x 15 mm					
Xpando™ 16 mm x 16 mm	From 2"	0.06"	0.14"	16 mm	19 mm
Xpando™ 16 mm x 18 mm					
Xpando™ 19 mm x 18 mm	From 2"	0.06"	0.24"	19 mm	22 mm
Xpando™ 19 mm x 19 mm					
Xpando™ 19 mm x 21 mm					
Xpando™ 19 mm x 25 mm					



Take-Off Elbow



Take-Off Coupling



Xpando™ Take-Off Adapter



Capo™ Rubber Grommet

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 stabilized acetal plastic for increased strength and long service life.
- Operating pressure range up to 50 psi.
- The space between double barbs allows placement of Antelco Ratchet Clamp's for extra security.



Applications

Low pressure micro irrigation systems.



DB Reducing Elbow



DB Elbow



DB Coupling



DB Reducing Coupling

Ordering Information - DB Couplings

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
DB Coupling 13 mm (tube ID .520)	47005	25	50	13.8
DB Coupling 14 mm (tube ID .530)	47015	25	40	12.8
DB Coupling 15 mm (tube ID .570)	46975	25	50	18.0
DB Coupling 16 mm (tube ID .600)	47025	25	50	18.8
DB Coupling 18 mm (tube ID .660)	47035	25	40	17.7
DB Coupling 21 mm (tube ID .805)	47045	25	30	16.8
DB Coupling 25 mm (tube ID 1.050)	46995	25	20	15.8

Ordering Information - DB Reducing Couplings

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
DB Reducing Coupling 16 mm x 14 mm	47075	25	50	18.1
DB Reducing Coupling 18 mm x 14 mm	47085	25	50	20.1
DB Reducing Coupling 25 mm x 13 mm	47065	25	32	19.1
DB Reducing Coupling 25 mm x 14 mm	47105	25	32	18.8
DB Reducing Coupling 25 mm x 15 mm	47135	25	32	19.2
DB Reducing Coupling 25 mm x 16 mm	47145	25	30	18.4
DB Reducing Coupling 25 mm x 18 mm	47175	25	29	18.7

Ordering Information - DB Elbows

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
DB Elbow 13 mm (tube ID .520)	47205	25	50	16.1
DB Elbow 14 mm (tube ID .530)	47215	25	50	19.6
DB Elbow 15 mm (tube ID .570)	47375	25	50	21.7
DB Elbow 16 mm (tube ID .600)	47225	25	40	18.5
DB Elbow 18 mm (tube ID .660)	47235	25	35	19.2
DB Elbow 21 mm (tube ID .805)	47245	25	20	14.6
DB Elbow 25 mm (tube ID 1.050)	47255	25	16	16.3

Ordering Information - DB Reducing Elbows

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
DB Reducing Elbow 16 mm x 14 mm	47275	25	50	21.1



Ordering Information - DB Tees

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
DB Tee 13 mm (tube ID .520)	47405	25	40	18.6
DB Tee 14 mm (tube ID .530)	47415	25	30	17.3
DB Tee 15 mm (tube ID .570)	47395	25	30	18.6
DB Tee 16 mm (tube ID .600)	47425	25	25	16.8
DB Tee 18 mm (tube ID .660)	47435	25	20	16.0
DB Tee 21 mm (tube ID .805)	47445	25	12	12.5
DB Tee 25 mm (tube ID 1.050)	47455	25	10	14.8

Ordering Information - DB Reducing Tees to Micro Tube

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
DB Reducing Tee 13 mm line x 4 mm (1/4") branch	47765	25	50	19.6
DB Reducing Tee 14 mm line x 4 mm (1/4") branch	47465	25	50	21.3

Ordering Information - DB Male Adapters

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
DB Male Adapter 13 mm x 1/2" MNPT	48035	25	50	22.8
DB Male Adapter 14 mm x 1/2" MNPT	48015	25	50	22.6
DB Male Adapter 15 mm x 1/2" MNPT	48025	25	50	22.9
DB Male Adapter 16 mm x 1/2" MNPT	48045	25	40	18.5

Ordering Information - DB End Plugs

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
DB End Plug 13 mm (tube ID .520)	47685	25	50	12.0
DB End Plug 14 mm (tube ID .530)	47615	25	50	13.3
DB End Plug 16 mm (tube ID .600)	47625	25	50	15.9
DB End Plug 18 mm (tube ID .660)	47635	25	50	18.5
DB End Plug 21 mm (tube ID .805)	47645	25	40	18.4



DB Tee



DB Reducing Tee to Micro Tube



DB Male Adapter



DB End Plug

Tap Fittings

A range of quick connect fittings specifically to connect low density poly irrigation tubing. Connect to faucet adapters, faucet timers, manifold and multi outlet distributors.

Features

- Simple to use ergonomic design.
- Tap Adapter suits Snap-On connections.
- UV stabilized materials for long life.



Applications

Home gardens and landscaping applications.



Snap-On Tap Adapter

Nut and Tail

Snap-On Connector Thread 3/4" FNH



Snap-On Joiner



Snap-On Connector Barb



Figure 8 End Closure

Ordering Information - Snap-On Tap Adapters

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Snap-On Tap Adapter 3/4" FNH	45765	25	40	16.5

Ordering Information - Snap-On Connectors

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Snap-On Connector 1/2" (tube .520 ID)	45465	25	34	26.5
Snap-On Connector 5/8" (tube .570 - .620 ID)	45475	25	32	26.4
Snap-On Connector 3/4" FNH	44465	25	25	28.5

Ordering Information - Snap-On Hose Kit (Not Shown)

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Snap-On Hose Kit 1/2" (tube .520 ID)	52505	25	16	20.7
Snap-On Hose Kit 5/8" (tube .570 - .620 ID)	52515	25	16	20.7

Ordering Information - Snap-On Joiners

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Snap-On Joiner 1/2" (tube .520 ID)	45455	25	50	9.8

Ordering Information - Nuts and Tails

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Nut and Tail with washer 3/4" BSPF x 13mm (tube ID .520)	44005	25	40	25.5
Nut and Tail with washer 3/4" BSPF x 14mm (tube ID .530)	44065	25	40	25.5
Nut and Tail with washer 3/4" BSPF x 16mm (tube ID .600)	44055	25	40	27.5

Ordering Information - Figure 8 End Closure

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Figure 8 End Closure (fits tubing up to .720 OD)	51275	25	50	9.9

Filters

Filtration devices to trap foreign particles in the water and reduce risk of clogging of emitters.

Features

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



In-Line Filter

Snap-On Filter

In-Line Filter screen detail

Applications

For low pressure (up to 45 psi) micro irrigation systems.



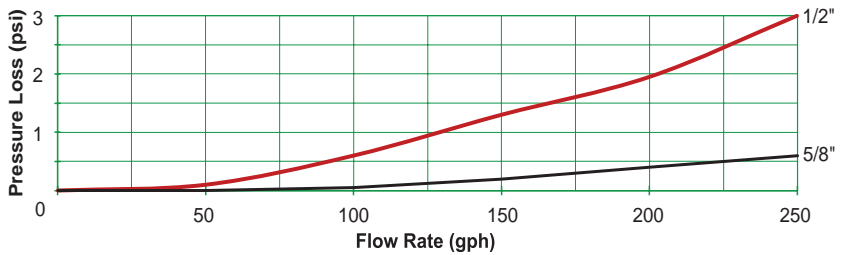
Ordering Information - In-Line Filters 80 Mesh Screen

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
In-Line Filter 1/2" barb (tube .520 ID)	44355	25	12	19.6
In-Line Filter 5/8" barb (tube .570 - .620 ID)	44365	25	10	16.8

Ordering Information - Snap-On Filters 80 Mesh Screen

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Snap-On Filter 1/2" barb (tube .520 ID)	44405	25	12	25.7
Snap-On Filter 5/8" barb (tube .570 - .620 ID)	44415	25	10	20.5

Pressure Loss 1/2" and 5/8" Filter



Specifications: In-Line Filter

Dimensions Assembled	1/2", 5/8"	Material		Base/Connection Type	
LENGTH	5.2"	Tail Inlet	acetal		
WIDTH	1.3"	Body Filter & Nut	polypropylene	INLET	Barb 1/2" or 5/8"
WEIGHT (approx.)	1.0 oz	Washer	TPV rubber	OUTLET	Barb 1/2" or 5/8"
		Screen	HDPE		

Specifications: Snap-On Filter

Dimensions Assembled	1/2", 5/8"	Material		Base/Connection Type	
LENGTH	5.3"	Body Snap-on Inlet	acetal		
WIDTH	1.3"	Body Filter & Sleeve Snap-on	polypropylene	INLET	Snap-on Connector
WEIGHT (approx.)	1.3 oz	Washer	TPV rubber	OUTLET	Barb 1/2" or 5/8"
		Screen	HDPE		



This product has been independently tested by the Australian Irrigation Technology Centre, Report No. A98052 and A00007.

Rigid Risers

Rigid Risers are used throughout a micro irrigation system in conjunction with emitters and fittings.

Features

- Available in four lengths - 6", 8", 12" and 18" in plain, barbed, threaded or 1/2" MNPT configurations.
- HDPE (HD) Risers suit all 10-32 UNF threaded emission devices including Shrubbler®, Bubbler, Spectrum™, Vari-Jets™, Jets and Rotor Spray™.
- Can be used in combination with Asta® Stakes or assembled with 1/2" MNPT adapter.
- Dimensions 0.160 ID x 0.300 OD.
- Operating pressure up to 50 psi.



Rigid Riser Plain



Rigid Riser with barbed 0.16" adapter



Rigid Riser with "Quick" thread adapter



Rigid Riser with 1/2" MNPT adapter

Ordering Information - High Density (HD) Risers - Plain

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Rigid Riser (HD) 6" plain	50115	100	10	8.7
Rigid Riser (HD) 8" plain	50125	100	10	11.2
Rigid Riser (HD) 12" plain	50135	100	10	16.1
Rigid Riser (HD) 18" plain	50145	100	10	26.1

Ordering Information - High Density (HD) Risers with barbed 0.16" adapter

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Rigid Riser (HD) 6" with barbed 0.16" adapter	50215	100	10	9.9
Rigid Riser (HD) 8" with barbed 0.16" adapter	50225	100	10	12.3
Rigid Riser (HD) 12" with barbed 0.16" adapter	50235	100	10	17.0
Rigid Riser (HD) 18" with barbed 0.16" adapter	50245	100	10	26.9

Ordering Information - High Density (HD) Risers with "Quick" thread adapter

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Rigid Riser (HD) 6" with "Quick" thread adapter	50715	100	10	10.0
Rigid Riser (HD) 8" with "Quick" thread adapter	50725	100	10	13.1
Rigid Riser (HD) 12" with "Quick" thread adapter	50735	100	10	17.9
Rigid Riser (HD) 18" with "Quick" thread adapter	50745	100	10	27.6

Ordering Information - High Density (HD) Risers with 1/2" MNPT adapter

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Rigid Riser (HD) 6" with 1/2" MNPT adapter	50085	50	10	8.0
Rigid Riser (HD) 8" with 1/2" MNPT adapter	50095	50	10	9.4
Rigid Riser (HD) 12" with 1/2" MNPT adapter	50065	50	10	12.1
Rigid Riser (HD) 18" with 1/2" MNPT adapter	50075	50	8	13.5



Applications

Provides height extension to emitters in micro irrigation systems.

Stakes

The Asta® Stake range offers a simple solution for the various spray heights required in landscape and home gardens.

Features

- Asta® Stakes come in four sizes, ranging from 8” to 21”. The 16” and 21” options offer added stability and extra height.
- Suitable for use with flexible vinyl take-off tube for optimum versatility.
- Fits all .272” OD vinyl tubing or .300” PE Rigid Riser.
- Asta® Stake Adapter adapts 1/4” tubing to 10-32 UNF threaded emitters and clips into Asta® Stakes.
- Asta® Clip Stake anchors micro tubing.
- Asta® Hold-Down Stake anchors tubing.
- UV stabilized materials for long life.



Asta® Clip Stake Asta® Hold-Down Stake Micro Stake Asta® Stake 21” Asta® Stake 16” Asta® Stake 12” Asta® Stake 8” Asta® Stake Adapter

Ordering Information - Asta® Stakes

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Asta® Stake 8”	40885	25	28	22.2
Asta® Stake 12”	40875	25	24	28.4
Asta® Stake 16”	40895	25	12	20.1
Asta® Stake 21”	40905	25	10	20.8

Ordering Information - Asta® Stake Adapter - to suit 10-32 UNF & ‘Quick’ threads

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Asta® Stake Adapter 0.16”(F) x 0.18” barb	41005	50	50	6.0

Ordering Information - Asta® Clip Stake

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Asta® Clip Stake - 5 3/4” (fits tubing .225 - .275 OD)	43595	25	50	12.3

Ordering Information - Asta® Hold-Down Stake

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Asta® Hold-Down Stake 7” (fits tubing 1/2” - 3/4” OD)	43615	25	24	18.0

Ordering Information - Micro Stake

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Micro Stake 0.16” (F) x 0.16” barb	53705	25	12	18.5



Applications

Agricultural, landscape and home garden applications.

Stake Assemblies

Complete assemblies available for time saving convenience.

Features

- Pre-assembled with Rigid Risers or vinyl tubing for ease of installation.
- Adjustable control with Vari-Jet™ Asta® Stake Assembly.
- Micro Stake has a tube piercing point for hole punch installation of 1/4" adapters on micro tube and a retainer hole to align and support micro tubing.
- UV stabilized materials for long life.



Applications

Flowers and vegetable gardens and micro spray installations.



Vari-Jet™
Asta® Stake
Assembly
with 12" RR

Asta® Stake
w/Vari-Flow™
Valve & tubing

Asta® Stake
Assembly with
24" tubing

Asta®Stake
with Adapter



Asta[®] MM Stake Assembly with tubing

Micro Stake Assembly with 36" tubing



Ordering Information - Vari-Jet™ 12" Asta[®] Stake Assembly w/12" Rigid Riser & 0.16" barb

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
360° Vari-Jet™ Asta [®] Stake Assembly	50325	25	12	21.0
180° Vari-Jet™ Asta [®] Stake Assembly	50315	25	12	21.0
90° Vari-Jet™ Asta [®] Stake Assembly	50305	25	12	21.0

Ordering Information - 12" Asta[®] Stake with Asta[®] Stake Adapter

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
12" Asta [®] Stake with Asta [®] Stake Adapter	50345	25	20	25.4

Ordering Information - Asta[®] Stake Assembly with 24" vinyl tubing & 0.16" barb

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
12" Asta [®] Stake Assembly with tubing	50365	25	8	21.8
21" Asta [®] Stake Assembly with tubing	50388	100	1	14.2

Ordering Information - Asta[®] Stake Assembly with Vari-Flow™, 24" vinyl tubing & 0.16" barb

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
12" Asta [®] Stake Assembly w/Vari-Flow™ valve & tubing	50355	25	8	23.0

Ordering Information - Asta[®] MM Stake Assembly with 36" vinyl tubing & 0.16" barb

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Asta [®] MM Stake Assembly with 36" tubing	55455	25	10	22.0

Ordering Information - Micro Stake Assembly with 36" vinyl tubing & 0.16" barb

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Micro Stake Assembly with 36" tubing	54238	100	1	14.5

DripMate® Micro Irrigation Kits

The DripMate® Kits come complete with instructions and all of the essential micro drip components needed to install an efficient drip irrigation system.

Features

- Kits connect directly to a hose faucet or can be adapted to an existing sprinkler system.
- The Sprinkler Conversion Kit converts an existing 1/2" irrigation riser to drip irrigation.
- Minimal assembly required for maximum efficiency.
- Instructions provided for easy installation.
- UV stabilized materials for long life.

Applications

Home and landscaped gardens, container plants, nurseries and flower beds.

DripMate® Starter Kit



Ordering Information - DripMate® Starter Kits

Type	Part Number	Packs Per Carton	Carton (lbs)
DripMate® Drip Kit with Shrubbler® 360°	81495	5	21.4
DripMate® Spray Kit with Spectrum™ 360°	82095	5	21.4

System Components Include:

- 50 feet 1/2" Mainline Tubing LDPE .520ID x .620 OD
- 50 feet of 1/4" Distribution Tubing
- 25 Shrubbler® 360° Spike Adjustable Flow or
- 25 Spectrum™ 360° Spike Adjustable Flow
- Snap-On Tap Adapter
- Snap-On Filter
- Ratchet Clamp
- Figure 8 End Closure (2)
- Goof Plug (Rack of 10)
- Key Punch™
- Elbow
- Tee



Scan to see how it works



Potstream® Kit

Ordering Information - PotStream® Kit

Type	Part Number	Packs Per Carton	Carton (lbs)
PotStream® Kit	81455	10	6.7

System Components Include:

- 25 feet of 1/4" Distribution Tubing
- 5 Potstream® Adjustable Flow
- 5 Tidy Bow™ Elbows
- 5 0.16" Tees
- 1 Faucet Connector

Ordering Information - DripMate® Professional Drip Kit

Type	Part Number	Packs Per Carton	Carton (lbs)
DripMate® Professional Drip Kit	83495	4	15.9

System Components Include:

- 50 feet 5/8" Mainline Tubing .600 ID x .700 OD
- 50 feet of 1/4" Distribution Tubing
- 25 Shrubbler® 360° Spike Adjustable Flow
- Snap-On Tap Adapter
- Snap-On Filter
- Ratchet Clamp
- Figure 8 End Closure (2)
- Goof Plug (Rack of 10)
- Key Punch™
- Elbow
- Tee



DripMate® Professional Drip Kit

Ordering Information - DripMate® Sprinkler Conversion Kit

Type	Part Number	Packs Per Carton	Carton (lbs)
DripMate® Sprinkler Conversion Kit	81305	5	9.9

System Components Include:

- 9-Outlet Pressure Regulating Micro Manifold w/plugs
- 100 feet of 1/4" Distribution Tubing
- 9 Shrubbler® 360 Spike Adjustable Flow



DripMate® Sprinkler Conversion Kit

Installation Tools

Tools to assist in the installation of micro irrigation systems.

Features

- 2 in 1 Punch & Cutter suitable for cutting CVT and LDPE tubing up to 3/4" OD and punching holes into 1/2" and 3/4" LDPE for the installation of Drippers, Sprays, Rigid Risers and micro fittings.
- Miracle Punch makes 0.18" hole in 1/2" to 3/4" LDPE tubing.
- 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™ makes 0.12" hole in tubing and has a hexagonal base to install and remove spray jets and interchange their caps.

Applications

Suitable for all micro irrigation applications.



2 in 1 Punch & Cutter

Ordering Information - Installation Tools

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
Key Punch™	42315	25	50	11.4
Miracle Punch	50038	1	25	4.7
2 in 1 Punch & Cutter	42378	1	95	18.9
Hole Punch 7.5 mm	51898	1	50	7.5
Socket Driver for Rotor Rain™ Plus	51909	1	180	37.9

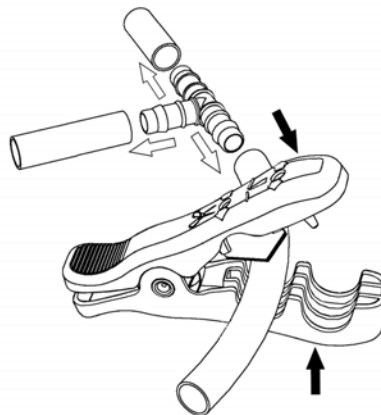


Socket Driver for Rotor Rain™ Plus

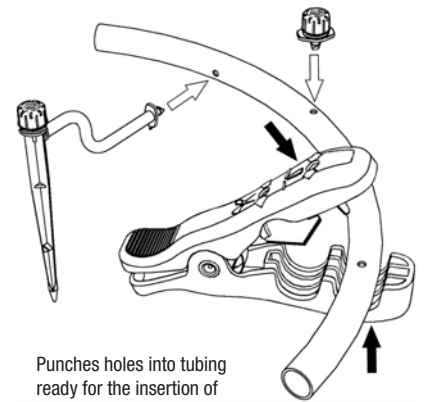
Socket Driver for Rotor Rain™ Plus

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

2 in 1 Punch & Cutter



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.



Miracle Punch



Hole Punch 7.5 mm



Key Punch™

NEW

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.

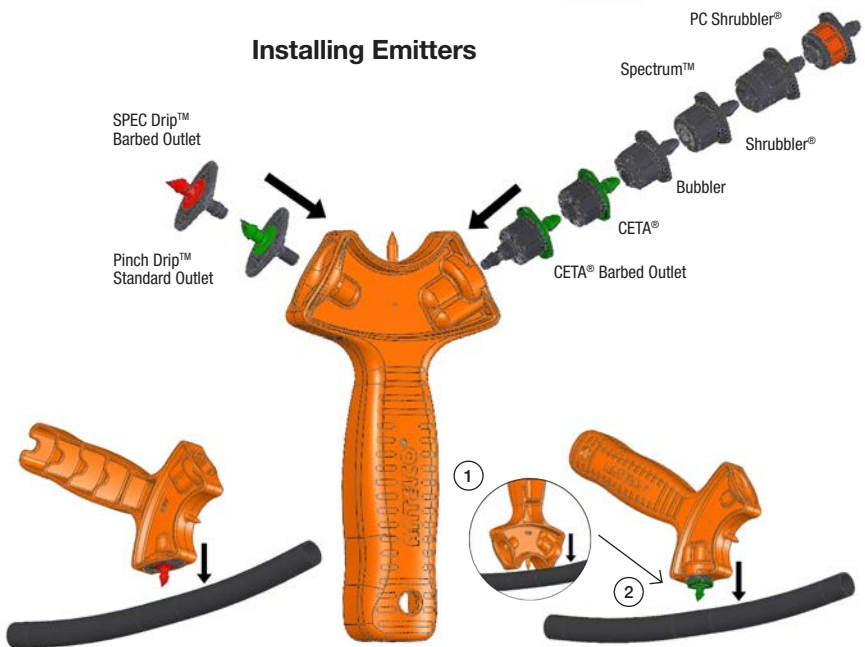
Applications

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



Ordering Information - DripMate[®] Tool

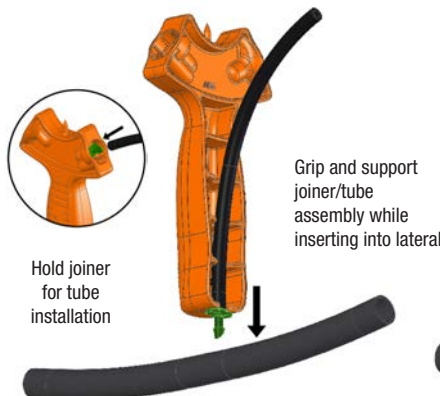
Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
DripMate [®] Tool	70025	1	TBA	TBA



Direct insertion into lateral with the new Antelco self piercing SPEC Drip[™]

Punch Holes in lateral before inserting a wide range of barbed emitters.

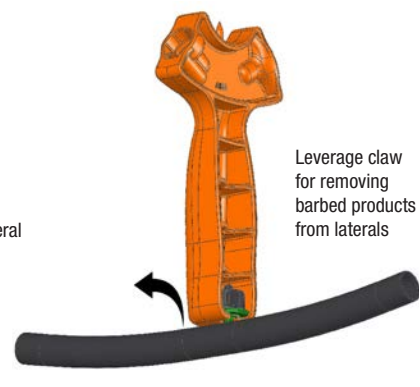
Installing Joiners & Tube Assembly



Hold joiner for tube installation

Grip and support joiner/tube assembly while inserting into lateral

Removing Emitters



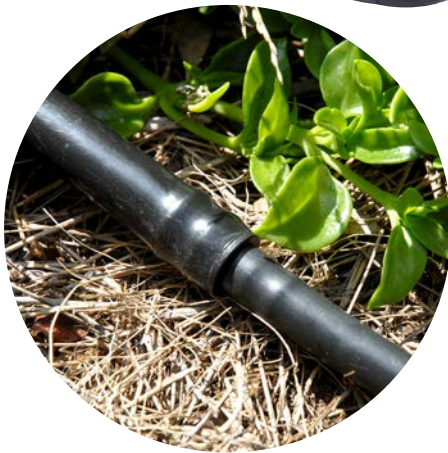
Leverage claw for removing barbed products from laterals

Tubing

Tubing is used throughout a micro irrigation system in conjunction with micro emitters and fittings.

Features

- Mainline tubing supplied in 50 ft lengths.
- Distribution tubing supplied in 50 ft, 100 ft and 1,000 ft lengths.
- UV stabilized materials for long life.



Applications

Suitable for all micro irrigation applications.

Ordering Information - Mainline Tubing

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
1/2" Mainline Tubing LDPE. 50 ft .520 ID x .620 OD (Fittings-13 mm)	51072	1	5	10.8
5/8" Mainline Tubing LDPE. 50 ft .600 ID x .700 OD (Fittings-16 mm)	51082	1	4	10.9

Ordering Information - Distribution Tubing

Type	Part Number	Pack Quantity	Packs Per Carton	Carton (lbs)
1/4" Distribution Tubing Vinyl 50 ft .150 ID x .225 OD	51032	1	15	10.9
1/4" Distribution Tubing Vinyl 100 ft .150 ID x .225 OD	51035	1	10	15.1
1/4" Distribution Tubing Vinyl 1000 ft .150 ID x .225 OD	51036	1	2	30.0
1/4" Distribution Tubing Vinyl 1000 ft .140 ID x .272 OD (for Asta [®] Assemblies)	50918	1	1	29.3

* 24" and 36" cut lengths available upon request



Irrigation Equipment: Facts to Consider

- **Contract a professional irrigation designer; insist on a system to suit your plants and your soil.**
- **Install efficient micro-irrigation emitters wherever possible.**
- **Install an irrigation controller with multiple programs, seasonal adjustment, and a rain switch. Consider soil moisture devices.**
- **Mulch around your plants to conserve water in the soil.**
- **Irrigate to encourage deep roots - but don't over-irrigate**
- **Monitor your water use, you may need expert advice.**
- **Check and clean the various components of your system at the beginning and end of the irrigation season to make sure they are working properly.**

Filtration

It is easier to clean a single filter than many emitters. An effective filter which protects downstream components is an important feature of all irrigation systems. There are four types of filters used to protect irrigation systems:

Screen filters – typically used for relatively clean water (eg. city water) but not recommended where organics such as algae are present. They usually consist of a plastic or stainless steel screen and should be manually cleaned on a regular basis depending on the degree of clogging that has occurred.

Disc filters – these are made up of plastic discs, stacked on top of one another in the filter housing. The discs are grooved according to the rating of the filter. The grooves become gradually blocked over time with the contaminants in the water. Manual cleaning involves loosening the disc cartridge and washing the discs individually.

Sand media filters – these filters are pressurized tanks containing sand and are primarily used where organic matter content of the water is high. The dimensions of the sand grains are chosen according to the size of the emitter orifice they are intended to protect.

Sand separators – strictly speaking, these are not filters, but are devices that cause the water to be rotated in the body of the equipment. Centrifugal action forces heavier particles within the water to

move to the outside of the stream and then fall to the base of the separator where they are collected and can be removed.

In summary, screen and disc filters are commonly used to protect drippers, jets, sprayers and mini sprinklers irrigating residential gardens, and all four filter types are used in large-scale agricultural and commercial irrigation projects.

When specifying filtration requirements, it is necessary to refer to the minimum cross section dimensions of the drippers and the minimum nozzle size of jets, sprayers and mini sprinklers. The degree of filtration provided by a filter is described either in terms of the size of the holes in the screen in microns, or the number of holes per linear inch. The conversions given below are approximate.

Drip irrigation

Although variable, the dimensions of the smallest pathways in drip emitters are unlikely to be less than 0.024". If organic matter is present in the water at high levels, such an emitter will require protection by a 75 micron / 200 mesh filter. If there is only inorganic matter present, a 175 micron / 80 mesh screen will be adequate.

Jets and sprayers

Minimum orifice size is generally not less than 0.032", in which case a filter with a 100 micron / 150 mesh screen will cope with an organic load in the water. A 250 micron / 60 mesh screen will be adequate if only inorganic material is present.

Mini sprinklers

With minimum orifice size around 0.06", filter screen size can vary from 175 micron / 80 mesh (organic matter present) to 500 micron / 35 mesh (only inorganic matter present). If you are uncertain about the quality of your water supply, or the minimum orifice size of your chosen emitter, seek professional advice.

Winterization

In areas with freezing climates, winterization is needed to remove water from the irrigation system to ensure freezing and expansion of water does not damage the components. This may be accomplished by draining the system or by using compressed air to purge the system. Antelco recommends using a licensed contractor when using compressed air to purge the irrigation system before freezing occurs.



Irrigation Conversion Tables & Formulas

Mesh - Screen Filter

Mesh	Inches	Microns
10	0.0787	2000
20	0.0331	841
40	0.0165	400
60	0.0098	250
80	0.007	177
100	0.0059	149

Imperial to Metric - Formulas

Pressure – psi to kPa	1 psi = 6.89 kPa
Flow - gph to lph	1 gph = 3.79 lph
Mass – Ounces to Grams	1 oz = 28.35 g
Measurement Unit – Inches to Millimeters	1 in = 25.4 mm
Measurement Unit – Feet to Metres	1 ft = 0.30 m

Conversion Tables

psi	kPa	Feet	Meters	gph	lph
5	34.5	1	0.3	½	1.9
10	68.9	2	0.6	1	3.8
15	103.4	3	0.9	2	7.6
20	137.9	4	1.2	4	15.1
25	172.4	5	1.5	6	22.7
30	206.8	10	3.0	8	30.1
35	241.3	15	4.6	10	37.9
40	275.8	20	6.1	15	56.8
45	310.3	25	7.6	20	75.7
50	344.7	30	9.1	40	151.4
		35	10.7	60	227.1
		40	12.2	80	302.8
		45	13.7	100	378.5
		50	15.2	120	454.2
		55	16.8	140	529.9

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



USA Conditions of Sale and Limited Warranty

Antelco Corporation warrants to its trade customers that its products will be free from original defects in material and workmanship for a period of one year from date of delivery.

Within the warranty period and upon due notice and delivery of defective products to Antelco Corporation, Antelco Corporation agrees to repair or replace only product determined by Antelco to be defective. In no event shall Antelco Corporation be liable for payment of any charges or expenses other than the cost of performing its obligation to repair or replace at Antelco's sole discretion in accordance with this basic commercial warranty.

Misuse, neglect or unauthorized repairs shall void this warranty.

The warranty is expressly limited to Antelco Corporation products only.

Antelco Corporation products are for use in outdoor irrigation applications only, therefore Antelco Corporation shall not be liable for incidental or consequential damages of any nature. Antelco Corporation's sole liability shall be for the repair or replacement of defective parts at Antelco's sole discretion pursuant with this warranty.

This warranty applies only to Antelco Corporation products and expressly does not apply to any product used in conjunction with Antelco Corporation products.

Antelco Corporation makes no other warranties expressed or implied. No agent, distributor, representative, or anyone else has the authority to waive, alter, or add to the printed provisions of this warranty, to make any representation or warranty not contained herein, or to extend this warranty to anyone other than the original user. Antelco reserves the right to redesign or modify its products without incurring further liability.

Order Acceptance

We reserve the right to accept or reject any order. Possession of Antelco Corporation's catalog or price list does not constitute an offer to sell nor a right to purchase.

Credit

A signed Antelco Corporation credit application is required prior to an account being reviewed for credit approval or discount eligibility. COD may be requested for accounts with credit applications in process.

Terms

Approved credit applications will receive terms of 2% 10 days/ Net 30 days unless specified otherwise. Past due thereafter. Accounts may be placed on hold or terms revoked due to unsatisfactory payment.

Late Charges

A late charge, equal to 5% over the current Federal Reserve Bank Discount Rate, will automatically be assessed on all past due accounts.

Minimum Order

Minimum order amount is \$100.00 net. Any order not meeting \$100.00 net will be charged a \$15.00 minimum order handling fee.

Freight

Ground freight will be prepaid in the continental US on orders over \$1,500.00 net; Carrier of our choice. Freight will be prepaid and added on all orders under \$1,500.00 net.

Drop Shipments

A \$5.00 fee will be charged on all drop shipments.

Returned Merchandise

No returns accepted after 90 days or without prior approval and a Returned Goods Acceptance issued. Returned goods are subject to a 20% restocking fee. All returned shipments must be freight prepaid. Credit will not be given for obsolete or shopworn equipment. Returned products must be in re-sellable Antelco packaging. Special order items may not be returned for credit.

Delivery

Delivery estimates are made in good faith and are subject to government restrictions, failure by our suppliers to deliver, fires, strikes or other causes beyond our control.

Shortages

Claims for shortages or errors in shipping must be in writing and will not be recognized after seven days from the date of delivery.

Pricing

We reserve the right to change prices without notice. We will dispatch goods at the current price. Customers may request confirmation of current prices when ordering.

Other Conditions of Sales

The laws of Florida apply to all Antelco Corporation contracts and commercial dealings. When you deal with Antelco Corporation you will be understood to agree to that. State and local laws vary widely on the subject of commercial credit interest and late charges. The Federal Usury Preemption Law currently in effect will apply to all Antelco Corporation transactions wherever applicable.

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