

# ANTELCO



PUTTING WATER WHERE IT COUNTS !<sup>®</sup>



## Irrigation Equipment Metric Catalogue

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2019



# NEW PRODUCTS



## Agri Drip™ Classic - Drippers

Page 4

New improved coloured bases to identify flow rate.



## CFa Ag Spray™

Page 19

A single piece 360° stream open spray jet for high performance at an affordable price.



## Rotor Rain® Mini Sprinkler Assemblies

Page 25

The existing range has been increased to include lower flow rate nozzles to suit more applications.

Rotor Rain® Assemblies come pre-assembled with Take-Off Adaptor, tubing, stake and Rotor Rain® sprinkler.

PC Flow Adaptors.



## Rotor Max™ Midi Sprinkler

Page 28

Increased range of lower flow rate nozzles to suit more applications.



## Micro Stake & Micro Stake Assembly

Page 45

A stake and/or assembly to suit threaded jets, sprays and sprinklers.



## Fittings

New 32 mm Fittings

Page 39-40

## Xpando® Director

Page 48

Ideal for connecting threaded sprinkler risers to rigid sprinkler lateral pipework.

Antelco is committed to product development and improvement so specifications may change without notice and without incurring liability.

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DRIPPERS

SPRAYS

SPRINKLERS

VALVES

ACCESSOIRES

FITTINGS





# Shrubbler® 360° & 180° Adjustable Flow



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

## Features

- Finger-tip flow control with shut-off option.
- Spike models anchor Shrubbler® at the plant.
- Spike models suits 4 mm ID micro tube.
- Barb model for direct attachment to micro and supply tubes.
- 4 mm Threaded model for installation into Rigid Risers and Asta® Stakes.
- 1/2" Threaded model for riser pipe installations.

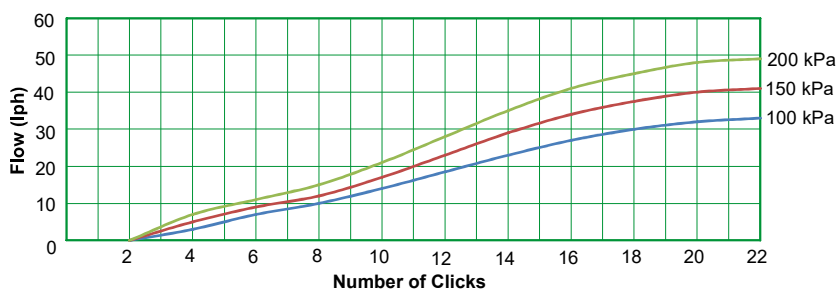
## Applications

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

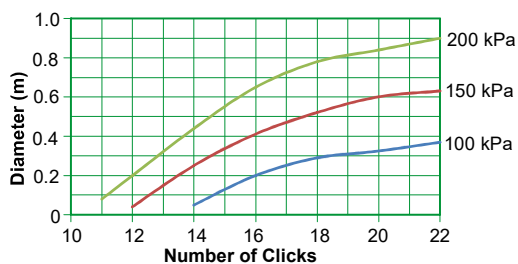
## Performance Chart - fully open (approx. 22 clicks)

Pattern		360° ✱	180° ⬇
Pressure (kPa)	Flow (lph)	Diameter (m)	Radius (m)
100	33	0.4	0.4
150	41	0.6	0.5
200	49	0.9	0.6

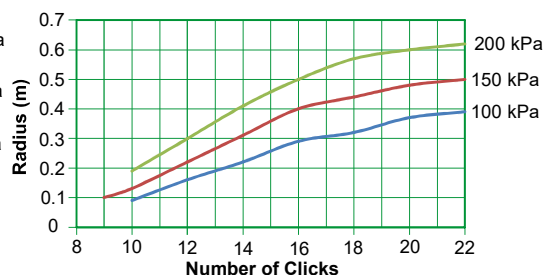
## Flow Rate 360° & 180°



## Diameter of Throw 360°



## Radius of Throw 180°



## Ordering Information - Shrubbler® 360°

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

## Ordering Information - Shrubbler® 180°

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

for Product Specifications refer Page # 3



Shrubbler® Spike with 4 mm In-Line Inlet

DRIPPERS

ADJUSTABLE



# Potstream® Adjustable Flow



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

## Features

- Variable flow rate and pattern size suit pot diameters of 200 mm and upwards.
- Suit pot wall thickness up to 40 mm.
- Side mounted installation for the clean and tidy location of the supply tube.
- Low application rate and gentle stream pattern.
- Easily adjustable knob for varying spray patterns.

## Applications

Potted plants, planter boxes and containers.

## Performance Chart

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

## Ordering Information - Potstream®

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

## Specifications

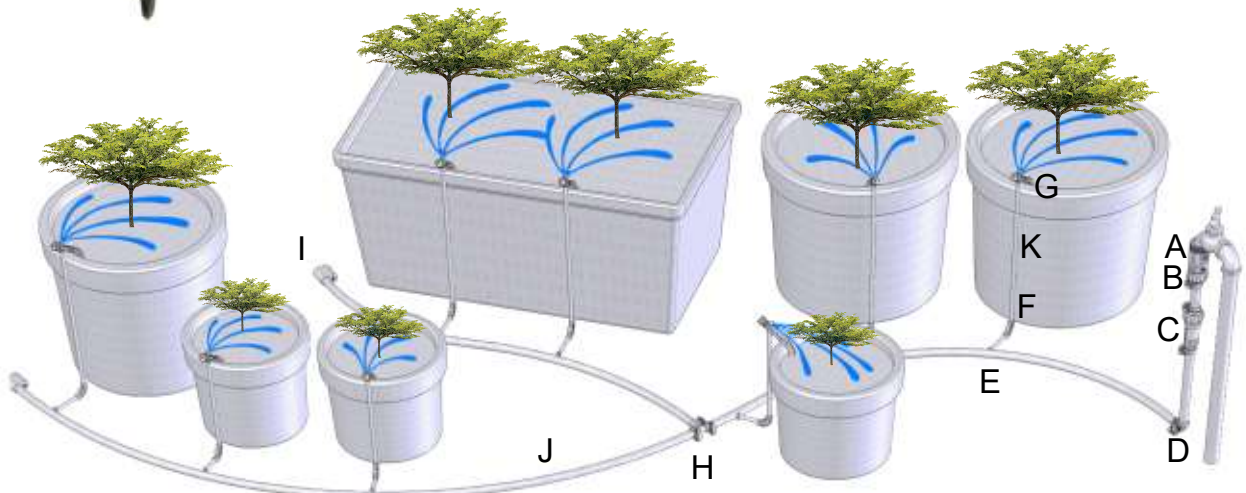
Dimensions Assembled		UV Stabilised Material		Colour	Base/Connection Type
HEIGHT	220 mm	STAKE	polypropylene	STAKE Black	Inlet: BARB 4.5 mm
WIDTH	22 mm	KNOB	HDPE	KNOB Black	
DEPTH	75 mm				
WEIGHT (approx)	11 g				

## Typical System

### KEY

- A - Pressure Regulator
- B - Nut & Tail
- C - Filter
- D - Elbow
- E - Takeoff/Joiner
- F - Tidy Bow Elbow

- G - Potstream®
- H - Tee
- I - End Sleeve
- J - 13mm Supply Tube
- K - 4mm Micro Tube





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


## Features

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

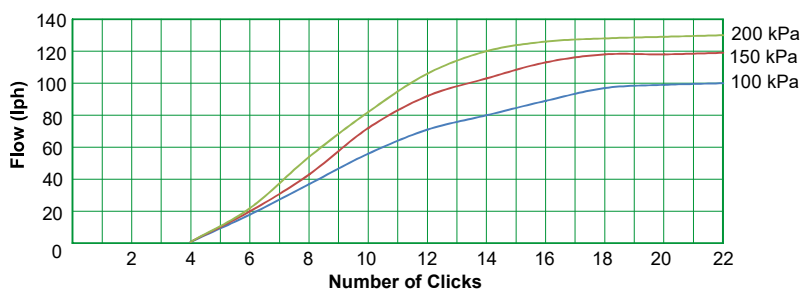
## Applications

Street trees and shrubs. Flow rates allow for short watering times.

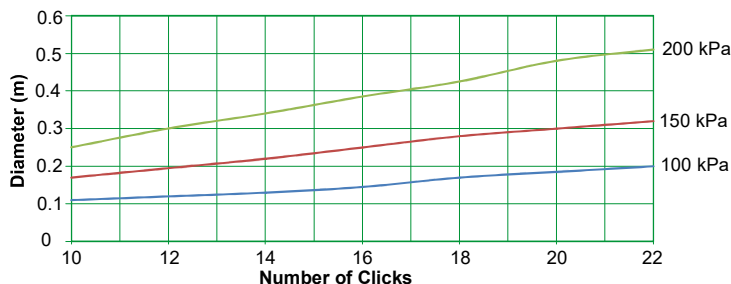
## Performance Chart - fully open (approx. 22 clicks)

Pattern		360° 
Pressure (kPa)	Flow (lph)	Diameter (m)
100	100	0.2
150	119	0.3
200	130	0.5

## Flow Rate



## Diameter of Throw



## Ordering Information - Mini Bubbler

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

## Specifications - Shrubber® & Mini Bubbler

Dimensions Assembled		Barb	Thread	Thread 1/2"	Spike
HEIGHT		23 mm	23 mm	34 mm	135 mm
WIDTH		20 mm	20 mm	26 mm	42 mm
DEPTH		16 mm	16 mm	26 mm	16 mm
WEIGHT (approx.)		1.6 g	2.0 g	4.3 g	5.4 g
UV STABILISED MATERIAL	BASE CAP	polypropylene	acetal	polypropylene	polypropylene
		polypropylene	polypropylene	polypropylene	polypropylene
BASE/CONNECTION TYPE: Inlet		BARB 4 mm	10-32 UNF THREAD 4 mm	THREAD 1/2" FNPT	BARB 4 mm



Mini Bubbler  
Spike with  
4 mm Inlet



Mini Bubbler  
Barb 4 mm



Mini Bubbler  
Thread 4 mm



Mini Bubbler  
Thread 1/2" FNPT

# Agri Drip™ Classic Dripper



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

## Features

- Colour Coded Bases for easy identification (Red - 2 lph, Grey - 4 lph, Green - 8 lph).
- Positive barb connection to suit 4 mm ID micro tube or direct connection to supply tubing.
- Constructed of UV resistant plastic for long life.

## Applications

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



Agri Drip™ Classic  
2 lph



Agri Drip™ Classic  
4 lph

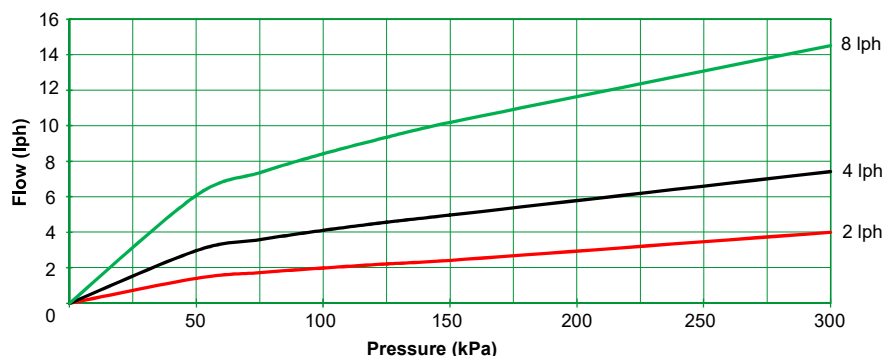


Agri Drip™ Classic  
8 lph

## Performance Chart

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

## Flow Rate



## Ordering Information - Agri Drip™ Classic

Description	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
2 lph	30225	100	85	10.4
4 lph	30245	100	85	10.4
8 lph	30285	100	85	10.4

## Specifications

Dimensions Assembled		UV Stabilised Material		Base/Connection Type	
HEIGHT	23 mm	BASE	polypropylene	Inlet:	BARB 4 mm
DIAMETER	20 mm	CAP	polypropylene	Outlet:	SPOUT 4 mm
WEIGHT (approx)	1.3 g				





4 lph dripper 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.

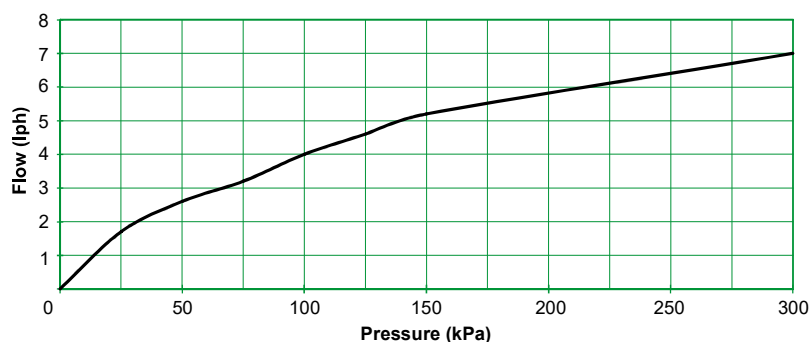
## Applications

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

## Performance Chart

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

## Flow Rate



## Ordering Information - Midi Drip™

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

## Specifications

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



# Pinch Drip™ Pressure Compensating Dripper



A high performance Pressure Compensating (PC) dripper with a sealed turbulent flow path and diaphragm to maintain uniform flow rates over a wide range of operating pressures. Low profile design to minimise risk of dislodgement from supply tubing and ergonomic finger grips for ease of installation.

## Features

- Low manufacturing coefficient of variation (Cv) to provide high performance (conforms to ISO 9261).
- Three colour coded flow rates: 2 lph (Red), 4 lph (Black) & 8 lph (Green).
- Self-flushing (cleaning) action at low pressures.
- Insect baffle to reduce risk of blockages.
- Inlet barb has built-in filter.
- UV stabilised materials for long life.
- Resistant to common agricultural chemicals & fertilisers.

## Applications

Vineyards, Orchards, Row Crops and Landscape

## Performance Chart

Pressure (kPa)	Flow (lph)		
	2 lph	4 lph	8 lph
50	2.1	3.4	5.7
100	2.3	4.1	7.2
150	2.3	4.4	7.4
200	2.4	4.6	7.6
250	2.4	4.6	7.7
300	2.3	4.6	7.5
350	2.2	4.5	7.3
MINIMUM FLOW PATH DIMENSION (mm)			
	0.7 x 0.6	0.8 x 0.8	1.2 x 0.9



Pinch Drip™  
PC 2 lph  
Barb 4 mm

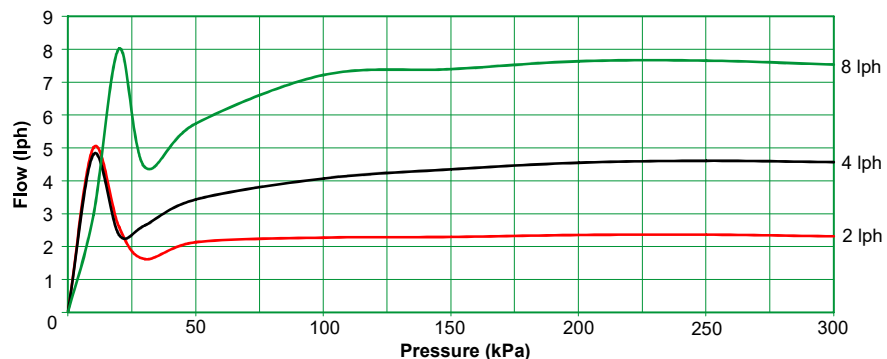


Pinch Drip™  
PC 4 lph  
Barb 4 mm



Pinch Drip™  
PC 8 lph  
Barb 4 mm

## Flow Rate



## Ordering Information - Pinch Drip™ PC

Description	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
2 lph	30705	100	85	10.1
4 lph	30715	100	85	10.1
8 lph	30725	100	85	10.1

## Specifications

Dimensions Assembled		UV Stabilised Material		Base/Connection Type	
HEIGHT	25mm	CAP	polypropylene	Inlet:	BARB 4 mm
WIDTH	28 mm	BASE	polypropylene	Outlet:	SPOUT 4 mm
DEPTH	28 mm	DIAPHRAGM	silicone rubber		
WEIGHT (approx)	1.1g				



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

## Features

- Take-Apart for easy inspection and cleaning (CETA<sup>®</sup> - Compensating Emitter Take Apart).
- Self-flushing cleaning action at low pressure.
- Insect baffle to minimise blockages.
- 4 mm Barbed dripper range with colour coded bases for easy identification 2 lph (Red), 4 lph (Black) & 8 lph (Green).
- 4 mm Barbed range incorporates 4 mm barbed outlets.
- 4 lph PC Spike & In-Line Spike models to anchor CETA<sup>®</sup> at the plant.
- Resistant to common agricultural chemicals & fertilisers.

## Applications

Pots, planter boxes, balcony patio and landscape applications.

## Performance Chart

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

## Ordering Information - CETA<sup>®</sup> PC 4 lph Spike

Base Type	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
Spike	30625	25	60	9.0
In-Line Spike	30655	25	50	7.7

## Ordering Information - CETA<sup>®</sup> PC with 4 mm Barb Outlet

Flow	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
2 lph	30545	100	60	13.5
4 lph	30555	100	60	13.5
8 lph	30565	100	60	13.5

## Specifications

Dimensions Assembled		CETA <sup>®</sup> PC with 4 mm barb outlet	CETA <sup>®</sup> PC Spike/ In-Line Spike
HEIGHT		35 mm	135 mm
WIDTH		20 mm	36 mm / 42 mm
DEPTH		16 mm	16 mm
WEIGHT (approx.)		2.0 g	5.0 g
UV STABILISED MATERIAL	BASE/SPIKE	polypropylene	polypropylene
	CAP	polypropylene	polypropylene
	DIAPHRAGM	silicon rubber	silicon rubber
	ADAPTOR	acetal	silicon rubber
CONNECTION TYPE: Inlet		BARB 4 mm	BARB 4 mm
Outlet		BARB 4 mm	SPOUT 4 mm



CETA<sup>®</sup> PC Spike  
4 lph  
with 4 mm Inlet



CETA<sup>®</sup> PC  
In-Line Spike  
4 lph  
with 4 mm Inlet



CETA<sup>®</sup> PC  
2 lph  
Barb 4 mm  
with 4 mm  
Outlet



CETA<sup>®</sup> PC  
4 lph  
Barb 4 mm  
with 4 mm  
Outlet



CETA<sup>®</sup> PC  
8 lph  
Barb 4 mm  
with 4 mm  
Outlet





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 colour coded flow rates: 2 lph (Red), 4 lph (Black) & 8 lph (Green).
- Self-flushing (cleaning) action at low pressures.
- Large clog resistant turbulent flow path.
- The CETA® dripper is able to be taken apart for inspection and cleaning.
- Insect Baffle to deter insect entry.
- Constructed of high quality UV and chemical resistant materials.
- Resistant to common agricultural chemicals & fertilisers.

## Applications

*Vineyards, Orchards, Row Crops and Landscape.*

## Performance Chart

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



CETA® PC  
2 lph  
Barb 4 mm

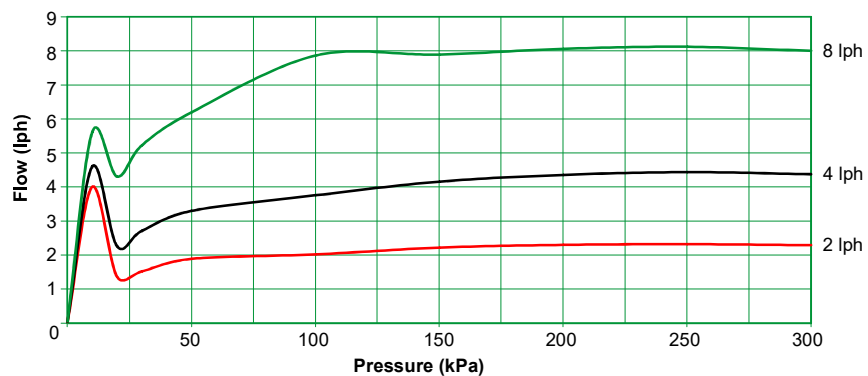


CETA® PC  
4 lph  
Barb 4 mm



CETA® PC  
8 lph  
Barb 4 mm

## Flow Rate



## Ordering Information - CETA® PC Barb

Flow	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
2 lph	30425	100	70	13.3
4 lph	30445	100	70	13.3
8 lph	30485	100	70	13.3

## Specifications

DIMENSIONS ASSEMBLED		CETA® PC
HEIGHT		25 mm
WIDTH		20 mm
DEPTH		16 mm
WEIGHT (approx.)		1.7 g
UV STABILISED MATERIAL	BASE	polypropylene
	CAP	polypropylene
	DIAPHRAGM	silicon rubber
CONNECTION TYPE: Inlet		BARB 4 mm
Outlet		SPOUT 4 mm



A landscape and nursery dripper incorporating an anchoring spike that delivers precise amounts of water direct to the plant root zone. This Pressure Compensating (PC) spike dripper has a sealed turbulent flow path and diaphragm to maintain uniform discharge rates over a wide range of pressures.

## Features

- Three colour-coded flow rates: 2 lph (Red), 4 lph (Black) & 8 lph (Green).
- Turbulent flow path & self-flushing action with insect baffle to minimise blockages.
- Inlet barb has built-in filter.
- UV stabilised materials for long life.
- Resistant to common agricultural chemicals & fertilisers.

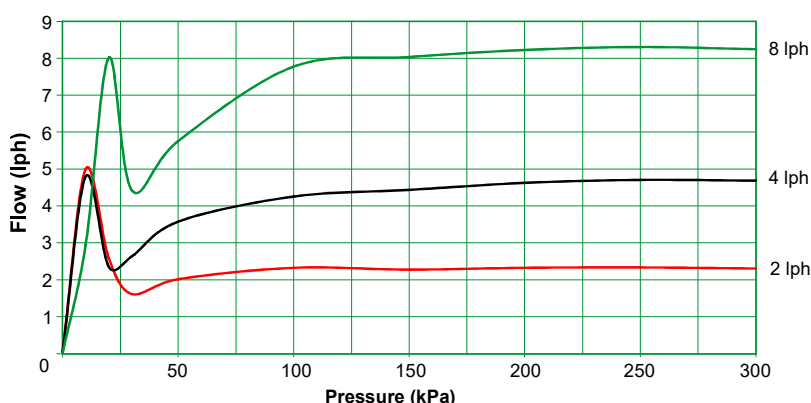
## Applications

Nurseries, shade houses, tree lots and landscape applications.

## Performance Chart

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

## Flow Rate



## Ordering Information - Asta® Drip PC Spike

Description	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
2 lph	30735	25	50	7.0
4 lph	30745	25	50	7.0
8 lph	30755	25	50	7.0

## Specifications

Dimensions Assembled		UV Stabilised Material		Base/Connection Type	
HEIGHT	144 mm	SPIKE	polypropylene	Inlet:	BARB 4 mm
WIDTH	33 mm	BASE	polypropylene	Outlet:	SPOUT 4 mm
DEPTH	17 mm	DIAPHRAGM	silicone rubber		
WEIGHT (approx)	4.5 g				

Asta® Drip PC  
2 lph Spike

Asta® Drip PC  
4 lph Spike

Asta® Drip PC  
8 lph Spike

# Shrubbler® 360° Pressure Compensating



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

## Features

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

## Applications

*Pots, planter boxes, balcony, patio and landscape applications.*

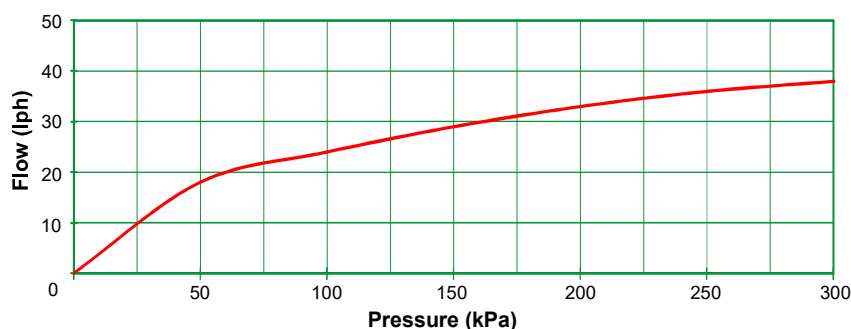
## Performance Chart

Pressure (kPa)	360° ✱	
	Flow (lph)	Diameter (m)
100	24	0.3
150	29	0.4
200	33	0.4
250	36	0.4
300	38	0.4



Shrubbler® 360° PC  
Barb 4 mm

## Flow Rate



Shrubbler® 360° PC  
Spike with 4 mm Inlet

## Ordering Information - Shrubbler® 360° PC

Description	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Barb 4 mm	31685	100	70	13.1
Spike	31695	25	60	8.5

## Specifications

Dimensions Assembled		Barb	Spike
HEIGHT		25 mm	135 mm
WIDTH		20 mm	16 mm
DIAMETER		15 mm	26 mm
WEIGHT (approx)		1.7 g	5.4 g
UV STABILISED MATERIAL	BASE	polypropylene	polypropylene
	CAP	polypropylene	polypropylene
	DIAPHRAGM	silicone	silicone
BASE/CONNECTION TYPE: Inlet		BARB 4 mm	BARB 4 mm





A sealed turbulent flow path Pressure Compensating driller incorporating a diaphragm that maintains a uniform flow rate over a wide range of operating pressures.

## Features

- Three available models: 2 lph, 4 lph & 8 lph.
- Positive barb connection to suit 4 mm ID tube or connect directly to supply tubing.
- UV stabilised materials for long life.
- Resistant to common agricultural chemicals & fertilisers.

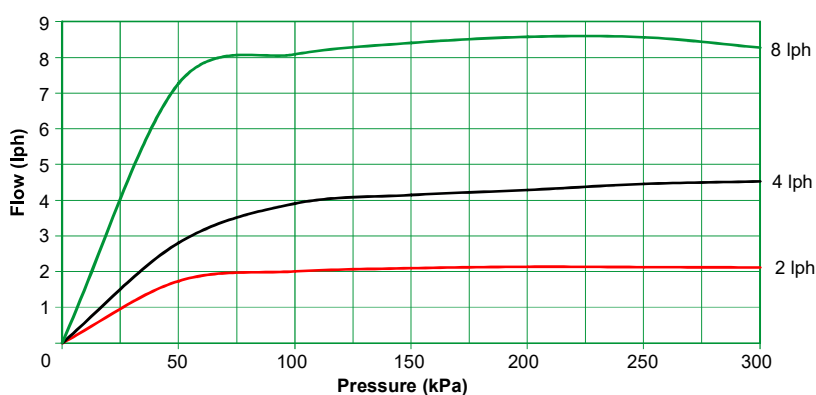
## Applications

*Horticultural tree and row crops, vineyards and landscape applications.*

## Performance Chart

Pressure (kPa)	Flow (lph)		
	2 lph	4 lph	8 lph
50	1.7	2.8	7.3
100	2.0	3.9	8.1
150	2.1	4.1	8.4
200	2.1	4.3	8.6
250	2.1	4.4	8.6
300	2.1	4.5	8.3
350	2.1	4.5	7.6
MINIMUM FLOW PATH DIMENSION (mm)		0.7 x 0.6	0.8 x 0.8

## Flow Rate



Agri Drip™ PC Driller  
Barb 4 mm

## Ordering Information - Agri Drip™ PC

Flow	Order Code	Pack Quantity	Packs Per Carton	Carton (kg)
2 lph	30325	100	75	10.6
4 lph	30345	100	75	10.6
8 lph	30365	100	75	10.6

## Specifications

Dimensions Assembled		UV Stabilised Material		Base/Connection Type	
HEIGHT	23 mm	BASE	polypropylene	Inlet:	BARB 4 mm
DIAMETER	20 mm	CAP	polypropylene	Outlet:	SPOUT 4 mm
WEIGHT (approx.)	1.3 g	DIAPHRAGM	silicone rubber		



A pressure compensating 4 lph dripper disguised as a fun and eye catching feature for your garden.

## Features

- Available in 4 lph Pressure Compensating model.
- Self-flushing (cleaning) action at low pressures.
- Insect baffle to reduce risk of blockages.
- Inlet barb incorporates built in filter.
- UV stabilised materials for long life.
- Resistant to common agricultural chemicals & fertilisers.
- Retail packaging solution for counter sales.

## Applications

*Pots, patios and landscape applications.*



DripPets® Frog  
PC 4 lph  
Barb 4 mm

## Performance Chart

Pressure (kPa)	Flow (lph)
	4 lph
50	3.4
100	4.1
150	4.4
200	4.6
250	4.6
300	4.6
350	4.5



DripPets® Ladybug  
PC 4 lph  
Barb 4 mm

## Ordering Information - DripPets®

Description	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
DripPets® Frog	30815	100	18	8.5
DripPets® Ladybug	30845	100	18	7.4



DripPets® Frog  
Retail Box

## Specifications

DIMENSIONS ASSEMBLED			UV Stabilised Material	Base/Connection Type
	FROG	LADYBUG		
HEIGHT	25 mm	25 mm	CAP polypropylene	Inlet: BARB 4 mm
DIAMETER	30 mm	27 mm	BASE polypropylene	Outlet: SPOUT 4 mm
DEPTH	35 mm	37 mm	DIAPHRAGM silicone rubber	
WEIGHT (approx):	3.6 g	2.8 g	COVER - Frog nylon	
			COVER - Ladybug acetal	



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

## Features

- Finger-tip flow control with shut-off option.
- Spike model to anchor Spectrum™ at the plant.
- 4mm Barb model for direct attachment to micro or supply tubing.
- 10-32 Threaded model for installation into Rigid Risers and Asta® Stakes or Stakes.
- 1/2" Threaded model for riser pipe installations.

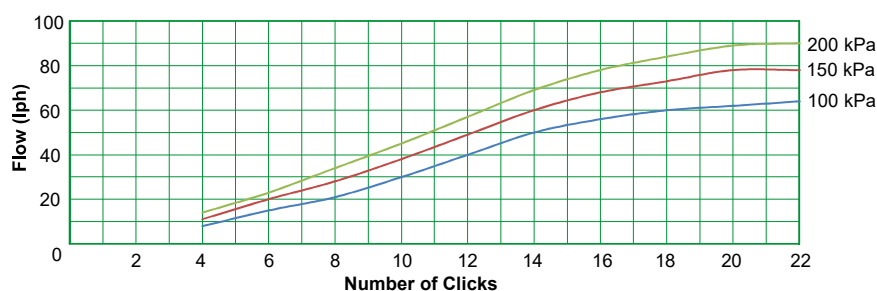
## Applications

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

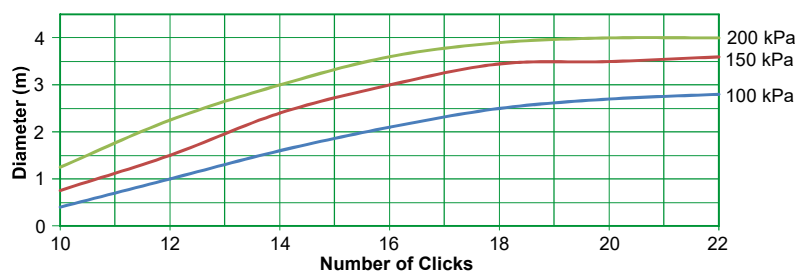
## Performance Chart - fully open (approx. 22 clicks)

Pressure (kPa)	360°	
	Flow (lph)	Diameter (m)
100	64	2.8
150	78	3.6
200	90	4.0

## Flow Rate



## Diameter of Throw



## Ordering Information - Spectrum™ 360°

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

## Specifications

Dimensions Assembled		Barb	Thread	Thread 1/2"	Spike
HEIGHT		26 mm	26 mm	37 mm	137 mm
WIDTH		20 mm	20 mm	26 mm	42 mm
DEPTH		16 mm	16 mm	26 mm	16 mm
WEIGHT (approx.)		1.7 g	2.1 g	4.9 g	5.5 g
UV STABILISED MATERIAL	BASE	polypropylene	acetal	polypropylene	polypropylene
	CAP	polypropylene	polypropylene	polypropylene	polypropylene
	DEFLECTOR	acetal	acetal	acetal	acetal
BASE/CONNECTION TYPE: Inlet		BARB 4 mm	10-32 THREAD 4 mm	THREAD 1/2"FNPT	BARB 4 mm



Spectrum™ Spike with 4 mm Inlet



Spectrum™ Barb 4 mm



Spectrum™ Thread 4 mm



Spectrum™ Thread 1/2" FNPT





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





## Features

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

## Applications

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

## Performance Chart

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

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



Vari-Jet™  
180° fan  
10-32 UNF Thread (4 mm)

## Ordering Information - Vari-Jets™

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



Vari-Jet™  
180° fan  
10-32 UNF Thread (4 mm)

## Specifications

Dimensions Assembled		UV Stabilised Material		Base/Connection Type
HEIGHT	32 mm	CAP	acetal	Inlet: 10-32 UNF THREAD 4 mm
WIDTH	22 mm	BASE	acetal	
WEIGHT (approx.)	2.3 g	KNOB	HDPE	
Dimensions vary slightly depending on selected base and cap assembly				



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

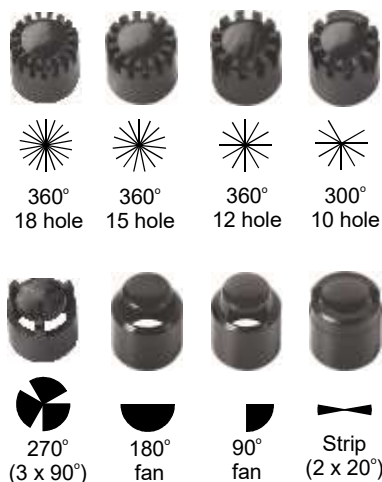
## Features

- Caps available in eight spray patterns.
- Eight colour coded bases to identify flow rate.
- Jet assemblies made to order.
- Caps and bases can be ordered separately.

## Applications

Assemblies suit garden bed watering and landscaped areas.

## Ordering Information - Spray Caps



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

## Ordering Information - Jet Bases



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

## Specifications- Caps and Bases

Dimensions	Cap	Base Winged	Base Hexagon
HEIGHT	9 mm	20 mm	20 mm
WIDTH	8 mm	across wings 12.5 mm	across flats 8 mm
WEIGHT (approx.)	0.2 g	0.5 g	0.5 g
UV STABILISED MATERIALS	acetal	acetal	acetal
BASE/CONNECTION TYPE: Inlet		'QUICK' THREAD 4 mm	'QUICK' THREAD 4 mm

*Dimensions vary slightly depending on cap selected*

Hexagon Base with 10-32 UNF Thread



## Specifications- Micro Spray Jets Winged (refer to Page 16)

Dimensions Assembled	Base Winged
HEIGHT	23 mm
WIDTH	across wings 12.5 mm
WEIGHT (approx.)	0.7 g
UV STABILISED MATERIALS	acetal
BASE/CONNECTION TYPE: Inlet	'QUICK' THREAD 4 mm

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

# Micro Spray Jets: Winged Assembled



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

## Features

- Nine available spray patterns.
- Colour coded bases for flow identification.
- Caps feature a snap ring which firmly engages the base.
- UV stabilised materials for long life.

## Applications

*Landscape areas, home gardens, nurseries and horticultural applications. Mist Jet ideal for greenhouse misting and hanging baskets. Strip Spray ideal for narrow garden beds. Use stakes and risers to elevate spray jets.*

## Performance Chart - all Micro Spray Jets

Pattern			360° x 18	360° x 15	360° x 12	300° x 10	270° (3 x 90°)	Strip (2 x 20°)	90°	180°	Mist
Minimum opening size			0.5 mm	0.6 mm	0.7 mm	0.7 mm	1.3 mm	1.4 mm	1.5 mm	1.5 mm	1.2 mm
Base Jet Size	Pressure (kPa)	Flow (lph)	Diameter (m)						Radius (m)		Diameter (m)
0.8 mm Black	50	15	2.6	2.2	2.6	1.2	2.4	2.4	1.1	1.2	
	100	22	4.1	3.2	3.2	3.2	3.6	4.2	1.7	1.5	
	150	27	4.6	3.6	4.0	4.8	2.8	5.4	2.1	1.7	
	200	32	5.0	4.2	4.6	6.0	2.7	6.0	2.3	1.7	
	250	36	5.3	4.8	5.0	7.0	2.7	6.4	2.6	1.8	
0.9 mm Brown	50	20	2.9	2.8	2.8	2.2	2.6	2.6	1.2	1.3	
	100	28	4.0	3.8	3.4	4.0	3.4	4.6	1.8	1.6	
	150	34	4.8	4.4	4.2	5.4	2.9	6.0	2.4	1.8	
	200	39	5.6	5.0	5.2	6.6	2.8	6.8	2.6	1.9	
	250	44	6.0	5.8	6.2	7.4	3.3	7.2	2.8	2.1	
1.0 mm Blue	50	22	3.6	2.6	2.8	2.4	3.2	2.6	1.2	1.5	
	100	33	4.9	3.8	4.4	4.8	4.2	4.8	2.0	1.8	
	150	42	5.8	4.8	5.2	7.0	3.2	5.6	2.4	2.0	
	200	49	6.2	6.2	6.8	8.6	3.2	5.8	2.8	2.1	
	250	56	6.4	7.0	8.4	9.0	3.4	5.8	2.8	2.3	
1.3 mm Green	50	36	4.7	4.2	3.2	3.0	3.5	3.8	1.4	1.5	
	100	54	6.4	5.8	5.0	5.6	3.5	5.8	2.2	2.0	
	150	68	7.0	6.2	6.0	7.2	3.7	7.2	2.6	2.3	
	200	80	7.2	7.8	7.0	8.0	3.7	8.4	2.0	2.5	
	250	91	7.6	8.8	8.4	8.4	3.8	9.6	3.1	2.7	
1.5 mm Red	50	52	4.9	4.4	4.0	4.4	3.0	4.9	1.5	1.9	
	100	75	6.8	6.0	6.2	5.4	3.8	6.5	2.4	2.4	
	150	92	8.2	7.4	8.4	8.8	4.4	8.9	2.9	3.0	
	200	107	8.2	8.8	10.0	10.4	4.8	10.8	3.1	3.2	
	250	120	7.2	10.0	11.4	11.2	5.1	11.2	3.3	3.4	
1.8 mm Orange	50	64	5.0	4.6	4.6	4.2	3.6	5.0	1.7	1.7	
	100	93	6.8	6.8	7.6	7.4	4.2	8.1	2.4	2.4	
	150	115	8.2	8.8	9.4	8.8	4.6	9.4	2.8	2.7	
	200	135	8.0	10.0	10.8	10.0	4.9	10.8	3.1	3.1	
	250	152	7.3	11.4	11.6	10.6	5.3	11.5	3.3	3.3	
2.0 mm Grey	50	80	5.3	4.8	5.0	4.6	3.4	5.4	1.7	1.7	
	100	115	7.5	7.6	8.2	7.4	4.6	9.4	2.6	2.5	
	150	140	8.1	9.6	10.2	9.2	5.1	12.0	3.1	3.1	
	200	165	7.8	11.0	12.0	10.6	5.6	13.2	3.3	3.3	
	250	185	6.7	12.4	13.0	11.8	6.2	13.8	3.5	3.6	
2.3 mm White	50	113	5.2	4.4	6.0	4.0	3.6	5.4	1.9	2.0	
	100	163	7.1	8.0	9.2	6.8	5.4	9.0	3.0	2.8	
	150	200	7.3	10.4	11.6	9.6	6.6	11.0	3.6	3.4	
	200	235	7.0	11.4	13.0	10.6	7.8	12.0	3.8	4.0	
	250	265	6.7	12.4	14.2	11.6	8.3	12.8	4.1	4.2	
0.36 mm Yellow	50	13									1.0
	100	18									0.8
	150	22									0.9
	200	25									0.8
	250	28									0.8

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

## Ordering Information - Micro Spray Jets: Winged Assembled

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

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



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




## Features

- Choice of four spray patterns.
- Built-in hole punch.
- Vari-Jet™ Spike assembled with 290 mm off-take tube and 150 mm Rigid Riser.
- Vari-Jet™ Stake assemblies with 290 mm off-take tube on 300 mm stake.
- UV stabilised materials for long life.

## Applications

Home and landscaped gardens.

## Performance Chart - Vari-Jet™ Spike

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

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

## Ordering Information - Vari-Jet™ Spike

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

## Ordering Information - Winged Micro Spray Stake Assembly (refer page 16 for performance)

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

## Ordering Information - Vari-Jet™ Stake Assembly (refer page 14 for performance data)

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

## Specifications

Dimensions Assembled		Vari-Jet™ Spike	Winged Micro Spray Stake Assembly	Vari-Jet™ Stake Assembly
HEIGHT		355 mm	345 mm	360 mm
WIDTH		55 mm	24 mm	24 mm
WEIGHT (approx.)		32 g	26 g	28 g
UV STABILISED MATERIALS	SPIKE/STAKE	polypropylene	polypropylene	polypropylene
	ADAPTOR	polypropylene	acetal	acetal
	RISER	HDPE	-	-
	KNOB	polypropylene	-	HDPE
	OFF-TAKE TUBE	PVC	PVC	PVC
BASE/CAP		acetal	acetal	acetal
BASE/CONNECTION TYPE: Inlet		BARB 4 mm	BARB 4 mm	BARB 4 mm



Vari-Jet™ Spike  
180° fan



Winged Micro Spray  
Stake Assembly

Vari-Jet™  
Stake Assembly



# Single Piece Jets



Economical fan spray jet for effective watering.

## Features

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

## Applications

Home and landscaped gardens and horticultural applications.

## Performance Chart

Pattern			360°	180°	90°
Nozzle Size & Colour	Pressure (kPa)	Flow (lph)	Diameter (m)	Radius (m)	
1.0 mm Blue	50	25	1.6	0.8	1.1
	100	35	2.0	1.0	1.4
	150	43	2.4	1.2	1.7
1.5 mm Green	50	48	2.0	1.0	1.3
	100	70	2.4	1.2	1.6
	150	88	2.8	1.5	1.9
1.7 m Black	50	62	2.4	1.2	1.6
	100	90	2.8	1.5	1.9
	150	113	3.2	1.8	2.2
1.9 mm Red	50	77	2.5	1.4	1.8
	100	110	3.0	1.7	2.1
	150	134	3.4	2.0	2.4



Single Piece Jet  
Blue 90°



Single Piece Jet  
Green 180°



Single Piece Jet  
Red 360°

## Ordering Information - Single Piece Jets

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

## Specifications

Dimensions	UV Stabilised Material	Base/Connection Type
HEIGHT 22 mm WIDTH across wings 12 mm WEIGHT (approx.) 0.6 g	acetal	Inlet: 'QUICK' THREAD 4 mm

Single piece 360° stream open spray jet engineered for high performance at an affordable price.


## Features

- Colour coded for flow rate identification.
- 12 Stream Hi-Lo watering pattern (a).
- Robust proven C Frame design.
- No moving parts.
- "Quick" thread inlet with sealing barb.

## Applications

*Specifically designed for orchards and horticultural crops.*

## Performance Chart

Pattern/ Trajectory	360° x 12 Streams - Hi Lo (a) 26° High x 12.5° Low Trajectory						
Nozzle Size & Colour	Pressure (kPa)	Flow (lph)	Diameter - (m)		Hydraulic Flow Data		
			High	Low	Constant (k)	Exponent (x)	
0.8mm Black	50	16	2.6	2.0	2.464	0.48	
	100	22	3.5	2.8			
	150	27	4.2	3.4			
	200	31	4.8	3.9			
	250	35	5.3	4.4			
0.9mm Orange	50	20	3.1	2.3	2.589	0.52	
	100	28	4.1	3.1			
	150	35	4.8	3.8			
	200	41	5.3	4.4			
	250	46	5.8	4.9			
1.0mm Blue	50	24	3.4	2.4	3.479	0.49	
	100	33	4.2	3.4			
	150	41	4.8	4.1			
	200	47	5.3	4.7			
	250	52	5.6	5.2			
1.1mm Purple	50	31	4.1	3.2	4.196	0.51	
	100	44	5.3	4.2			
	150	54	6.0	4.9			
	200	63	6.6	5.5			
	250	70	7.2	6.0			
1.5mm Red	50	51	5.5	4.3	6.634	0.52	
	100	73	6.9	5.6			
	150	90	7.9	6.5			
	200	104	8.8	7.3			
	250	117	9.4	8.0			

## Ordering Information - CFa AgSpray™

Nozzle Size & Colour	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
0.8 mm Black	13005	100	90	14.4
0.9 mm Orange	13075	100	90	14.4
1.0 mm Blue	13015	100	90	14.4
1.1 mm Purple	13065	100	90	14.4
1.5 mm Red	13055	100	90	14.4

## Ordering Information - CFa AgSpray™ on Micro Stake w/600mm Tube & Adaptor

Nozzle Size & Colour	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
0.8 mm	41605	25	TBA	TBA
0.9 mm	41675	25	TBA	TBA
1.0 mm	41615	25	TBA	TBA
1.1 mm	41665	25	TBA	TBA
1.5 mm	41655	25	TBA	TBA

## Specifications

Dimensions		UV Stabilised Material	Base/Connection Type
HEIGHT	34 mm	acetal	Inlet: 'QUICK' THREAD with sealing barb 4 mm
WIDTH	25 mm		
DEPTH	8 mm		
WEIGHT (approx.)	1.4 g		

CFa AgSpray™ Range

Typical System

CFa AgSpray™ on Micro Stake  
with 600 mm Tube and Adaptor



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

## Features

- 45° downspray reduces the effect of wind.
- Gentle spray minimises damage to delicate plant foliage.
- Galvanised wire stake assembly incorporates shut-off clip to stop flow.
- Asta® Stake assembly incorporates a hole punch for easy installation.
- Three colour coded frames to identify flow rates.
- Quick insertion thread with leak-proof design.
- UV stabilised for long life.

## Applications

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



CFd® Downspray Range



CFd® Downspray Wire Stake Assembly with 914 mm Tube & Adaptor

CFd® Downspray Stake Assembly with 300 mm Tube & Adaptor

## Performance Chart

Pattern		360°	
Nozzle Size/Colour	Pressure (kPa)	Flow (lph)	Diameter (m)
0.8 mm Black	50	16	0.6
	100	22	0.6
	150	27	0.5
0.9 mm Brown	50	20	0.6
	100	29	0.5
	150	35	0.5
1.0 mm Blue	50	24	0.6
	100	34	0.5
	150	41	0.5

## Ordering Information - CFd® Downspray

Nozzle Size & Colour	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
0.8 mm Black	19005	100	90	14.4
0.9 mm Brown	19025	100	90	14.4
1.0 mm Blue	19015	100	90	14.4

## Ordering Information - CFd® Galvanised Wire Stake Assembly w/Shut-Off Clip

Nozzle Size & Colour	Tube Length	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
0.8 mm Black	914 mm	43705	25	12	9.6
0.9 mm Brown	914 mm	43725	25	12	9.6
1.0 mm Blue	914 mm	43715	25	12	9.6

## Ordering Information - CFd® Downspray Stake Assembly

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

## Specifications

Dimensions Assembled		CFd® Downspray	CFd® Galvanised Wire Assembly	CFd® Stake Assembly
HEIGHT		34 mm	345 mm	360 mm
WIDTH		25 mm	24 mm	24 mm
DEPTH		8 mm		
WEIGHT (approx.)		1.4 g	26 g	28 g
UV STABILISED MATERIALS	FRAME	acetal	acetal	acetal
	STAKE ADAPTOR		polypropylene	acetal
	OFF-TAKE TUBE		PEVA	PVC
	BARB ADAPTOR STAKE		acetal	acetal
BASE/CONNECTION TYPE: Inlet		'Quick' Thread with Sealing Barb 4 mm	Barb 4 mm	Barb 4 mm



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

## Features

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

## Applications

*Specifically designed for orchards, vineyards and horticultural crops.*



Frame Jet™  
210° x 8 Pattern

## Ordering Information - Frame Jets™

Description	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Frame Jets™	as per table	50	120	12.7
Deflector	12995	50	120	12.5
Micro Stake with 600 mm Tube & Adaptor	40705	25	6	TBA

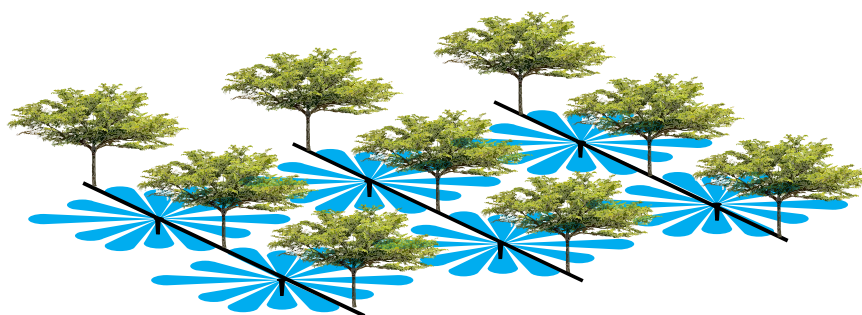
## Specifications

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



Micro Stake  
with 600 mm Tube and Adaptor

Typical System



Deflector for  
Frame Jet™



Deflector attached  
to Frame Jet™  
Butterfly Pattern



# Performance and Ordering Information



Pattern				A 360° x 12				B Butterfly				C 210° x 8				E 360° x 22				J 360° x 12				R Rectangular				V 300° x 10			
Trajectory				26° High 12.5° Low				22°				22°				12.5°				22°				12.5°				22°			
Nozzle Size & Base Colour	Press (kPa)	Flow (lph)	Order Code	Diameter (m)		Order Code	Diameter (m)	Order Code	Diameter (m)	Order Code	Diameter (m)	Order Code	Diameter (m)	Order Code	Diameter (m)		Order Code	Diameter (m)		Order Code	Diameter (m)	Order Code	Diameter (m)								
				High	Low										High	Low															
0.8 mm Black	50	16	12105	3.0	2.3	12205	3.6	12305	3.7	12505	2.3	12605	2.9	12705	2.8	1.4	12805	3.2	12805	3.2											
	100	23		5.0	5.2		3.0		3.7		3.9		1.5		4.4	1.7		5.1													
	150	29		6.0	6.1		3.2		4.2		4.4		1.7		5.1	2.0		5.5													
	200	33		6.5	6.4		3.4		4.8		5.1		2.0		5.5	2.0		6.1													
	250	37		7.2	6.7		3.8		5.0		5.8		2.0		6.1	3.4															
0.85 mm Orange	50	18	12175	3.6	2.8	12275	4.1	12375	3.9	12575	2.6	12675	3.2	12775	3.1	2.0	12875	3.4	12875	4.5											
	100	26		5.4	5.3		3.4		4.3		4.3		2.6		5.4																
	150	32		6.0	5.9		3.8		5.0		5.1		3.0		5.4																
	200	37		6.8	6.5		4.3		5.5		5.5		3.4		6.1																
	250	42		7.6	7.0		4.7		6.0		5.9		3.7		6.5																
0.9 mm Brown	50	21	12125	3.2	2.6	12225	4.2	12325	3.6	12525	2.6	12625	3.0	12725	3.2	1.8	12825	3.6	12825	3.6											
	100	30		6.1	4.9		3.5		3.9		4.2		2.4		4.6																
	150	37		6.8	5.6		3.8		4.4		4.9		2.7		5.4																
	200	43		7.4	6.1		4.2		4.9		6.0		2.9		6.1																
	250	48		8.1	6.7		4.6		5.3		6.3		3.1		6.6																
1.0 mm Blue	50	26	12115	4.0	3.0	12215	4.4	12315	4.3	12515	3.1	12615	3.8	12715	3.5	2.3	12815	3.9	12815	5.5											
	100	37		6.0	6.0		3.8		4.8		4.8		2.8		6.1																
	150	46		6.7	6.8		4.4		5.7		5.5		3.2		6.1																
	200	54		8.3	7.5		5.0		6.1		6.3		3.5		6.8																
	250	60		8.6	7.9		5.5		6.5		6.8		3.8		7.5																
1.1 mm Purple	50	31	12165	4.4	3.4	12265	5.3	12365	4.7	12565	3.5	12665	3.9	12765	3.4	2.2	12865	4.8	12865	6.4											
	100	45		7.1	6.5		4.4		5.4		4.7		2.7		7.4																
	150	55		7.9	7.5		5.0		6.5		5.5		3.5		7.4																
	200	65		9.2	8.6		5.7		6.9		6.4		3.8		8.4																
	250	73		9.9	9.0		6.3		7.4		6.9		4.3		9.1																
1.23 mm Grey	50	37	12145	5.2	4.1	12245	5.5	12345	5.4	12545	3.7	12645	4.8	12745	4.2	2.5	12845	5.0	12845	6.8											
	100	53		7.6	7.4		5.1		6.4		5.6		3.7		6.8																
	150	65		8.6	8.3		5.6		7.4		6.5		4.2		8.4																
	200	76		9.4	9.4		6.4		8.2		7.3		4.7		9.1																
	250	85		10.3	10.4		6.8		8.9		7.7		5.0		10.0																
1.3 mm Green	50	42	12135	4.9	3.8	12235	5.4	12335	5.2	12535	3.8	12635	4.5	12735	3.9	3.1	12835	5.2	12835	7.2											
	100	61		7.1	7.2		5.0		6.1		5.0		4.1		7.2																
	150	75		8.6	8.2		5.9		7.0		6.1		4.8		8.5																
	200	86		9.5	9.1		6.6		7.6		6.7		5.3		9.3																
	250	98		10.8	10.2		7.3		8.1		7.4		5.7		10.3																
1.55 mm Red	50	57	12155	5.5	4.3	12255	6.4	12355	5.6	12555	4.3	12655	5.0	12755	4.2	3.7	12855	6.0	12855	9.7											
	100	84		8.6	7.8		5.7		7.2		6.1		4.9		8.2																
	150	103		10.0	8.9		6.6		8.7		7.1		5.9		9.7																
	200	120		11.2	9.8		7.6		9.5		8.1		6.5		10.9																
	250	136		12.3	11.0		8.2		10.0		9.1		7.2		12.0																



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

## Features

- C Frame design for strength and high distribution uniformity.
- Full flow flipper suspended between two bearings for reliable performance.
- Inverted model incorporates special khaki coloured flipper with dust cover to protect bearing.
- Colour coded nozzles to identify flow rates.
- 10-32 UNF Thread for installing into Rigid Risers, Asta® Stake Adaptor, Micro Stake and 1/2" micro threaded adaptors.
- UV stabilised materials for long life.

## Applications

*Landscape areas, home gardens, nurseries and horticultural applications.*  
*Inverted Rotor Spray™ ideal for over-head greenhouse and nursery watering.*

## Ordering Information - Rotor Spray™

Nozzle Size & Colour	Base Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
0.9 mm Brown	10-32 UNF	20025	50	110	12.5
1.0 mm Blue	10-32 UNF	20015	50	110	12.5
1.3 mm Green	10-32 UNF	20035	50	110	12.5
1.5 mm Red	10-32 UNF	20055	50	110	12.5
1.8 mm Orange	10-32 UNF	20075	50	110	12.5
2.0 mm Grey	10-32 UNF	20045	50	110	12.5



Rotor Spray™  
10-32 UNF Thread

## Ordering Information - Inverted Rotor Spray™

Nozzle Size & Colour	Base Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
0.9 mm Brown	10-32 UNF	20125	50	110	12.5
1.0 mm Blue	10-32 UNF	20115	50	110	12.5
1.3 mm Green	10-32 UNF	20135	50	110	12.5
1.5 mm Red	10-32 UNF	20155	50	110	12.5



Inverted Rotor Spray™  
10-32 UNF Thread

## Ordering Information - Vari-Rotor Spray™

Nozzle Size & Colour	Base Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
1.5 mm Yellow	10-32 UNF	20295	25	88	9.6
1.5 mm Black	10-32 UNF	20205	25	88	9.6

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

Nozzle Size & Colour	Base Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
1.3 mm Green	10-32 UNF	17245	25	16	14.5

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

Nozzle Size & Colour	Base Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
1.5 mm Black	10-32 UNF	17295	25	88	9.6



Vari-Rotor Spray™  
10-32 UNF Thread

## Specifications

Dimensions Assembled		Rotor Spray™ and Inverted Rotor Spray™	Vari-Rotor Spray™
HEIGHT		35 mm	45 mm
WIDTH		27 mm	27 mm
WEIGHT (approx.)		2 g	3.5 g
UV STABILISED MATERIALS	FRAME	acetal	acetal
	BASE	acetal	acetal
	FLIPPER	nylon	nylon
	KNOB	-	HDPE
BASE/CONNECTION TYPE: Inlet		10-32 UNF Thread 4 mm	10-32 UNF Thread 4 mm

**Performance Chart - Rotor Spray™ & Inverted Rotor Spray™**

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



Rotor Spray™ Stake Assembly with 300 mm Tube and Adaptor



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

**Performance Chart - Vari-Rotor Spray™**

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



Low trajectory, large droplet mini sprinkler.

## Features

- C Frame design for strength and high distribution uniformity.
- Full flow flipper suspended between two bearings for reliable performance.
- Colour coded nozzles to identify flow rates.
- Range extended to include three new low flow nozzle sizes
- Break-off spray deflector for close-in watering of immature trees.

## Applications

*Vines, row and tree crops such as nuts, citrus and apples.*



Rotor Rain®  
3/8" BSPM Thread

## Ordering Information - Rotor Rain® 3/8" BSPM

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



Rotor Rain®  
1/2" MNPT Thread

## Ordering Information - Rotor Rain® 1/2" MNPT

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

## Specifications

Dimensions Assembled		Rotor Rain® 3/8"	Rotor Rain® 1/2"
HEIGHT		49 mm	49 mm
WIDTH		46 mm	46 mm
WEIGHT (approx.)		8 g	10.5 g
UV STABILISED MATERIALS	FRAME	acetal	acetal
	FLIPPER	nylon	nylon
	NOZZLE	acetal	acetal
BASE/CONNECTION TYPE: Inlet		THREAD 3/8" BSPM	THREAD 1/2" MNPT



**Performance Chart - Rotor Rain®**

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



Rotor Rain® 3/8" Stake Range

5mm CODE: **40555**

10mm CODE: **40515**

13mm CODE: **40535**

\*Refer to page 46 for stake information

**Performance Chart - Rotor Rain® with PC Adaptor**

PC Combination	Pressure (kPa)	Flow (lph)	Tested at 0.2 m above ground		
			Diameter (m)	Stream Height (m)	Deflector Diameter (m)
<b>Orange PC with Brown Nozzle</b>	100	28	3.6		
	150	30	4.2	0.5	1.5
	200	30	4.6		
	250	30	4.8		
	300	30	4.9		
<b>Blue PC with Blue Nozzle</b>	350	30	4.9		
	100	48	4.2		
	150	48	4.3	0.5	1.4
	200	48	4.4		
	250	49	4.5		
<b>Green PC with Olive Nozzle</b>	300	48	4.5		
	350	48	4.4		
	100	59	3.2		
	150	62	4.2	0.5	1.3
	200	62	4.3		
<b>Red PC with Red Nozzle</b>	250	61	4.4		
	300	61	4.3		
	350	62	4.2		
	100	91	4.4		
	150	95	4.8	0.6	1.3
	200	90	4.8		
	250	85	4.7		
	300	86	4.6		
	350	87	4.6		



Rotor Rain® Assemblies come pre-built with Take-Off Adaptor, tubing, stake and Rotor Rain® sprinkler.

**Features**

- Fully assembled saving on installation time.
- Take-Off Adaptor has easy insert barb.
- Incorporates 600 mm flexible tubing.
- Robust stake for anchoring Rotor Rain® sprinkler.
- Optional Pressure Compensating Adaptor to maintain consistent flow rate. If flexible tube is cut the same flow rate is maintained, avoiding washouts and water wastage.

**Applications**

*Orchard and row crop applications for under tree watering.*

SPRINKLERS



Rotor Rain® Assembled on Stake with 600 mm Tube & Adaptor



PC Flow Adaptor

**Ordering Information - Rotor Rain® Assembled on Stake w/600 mm Tube & Adaptor**

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

**Ordering Information - Rotor Rain® PC Assembled on Stake w/600 mm Tube & Adaptor**

PC Adaptor Colour (Nominal Flow)	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
PC (30 lph) Orange, with Brown Nozzle	43925	10	TBA	TBA
PC (48 lph) Blue, with Blue Nozzle	43915	10	TBA	TBA
PC (62 lph) Green, with Olive Nozzle	43985	10	TBA	TBA
PC (90 lph) Red, with Red Nozzle	43955	10	TBA	TBA

*\* Refer to page 26 for performance information*

**Ordering Information - PC Flow Adaptor only**

Nozzle Size & Colour	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
PC Flow Adaptor (30 lph) Orange	41575	25	TBA	TBA
PC Flow Adaptor (48 lph) Blue	41515	25	TBA	TBA
PC Flow Adaptor (62 lph) Green	41535	25	TBA	TBA
PC Flow Adaptor (90 lph) Red	41555	25	TBA	TBA



Rotor Rain® PC Assembled on Stake with 600 mm Tube & Adaptor

# Rotor Max™ Midi Sprinklers



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

## Features

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

## Applications

Greenhouses, vegetable row crops and under tree watering. Inverted Rotor Max™ is ideal for over-head watering in glasshouse, nursery and shade house applications. The 0° trajectory sprinkler is also suited to standard upright operation, excellent for under foliage or wind affected locations.

## Performance Chart

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

## Ordering Information - Rotor Max™ 3/8" BSPM

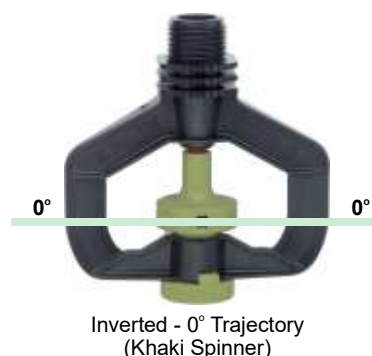
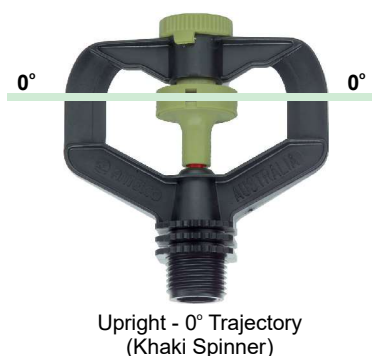
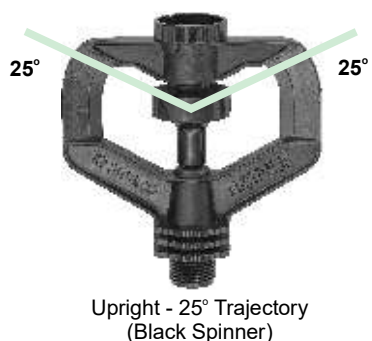
Nozzle Size & Colour	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
2.0 mm Yellow	21175	20	10	8.0
2.4 mm Green	21185	20	10	8.0
2.8 mm Red	21155	20	10	8.0
3.2 mm Black	21105	20	10	8.0
3.8 mm Purple	21165	20	10	8.0

## Ordering Information - Rotor Max™ 1/2" BSPM

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

## Specifications

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



Rotor Max™ 3/8" Stake Range

10mm CODE: **40515**

13mm CODE: **40535**

\*Refer to page 46 for stake information



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

## Features

- Low pressure bubbler with large droplet size.
- Low operating pressure range ideal for recycled water sump pumps.
- Robust stake with hammer point for inserting into soil.
- Bubbler Assembly with 2.3 mm diameter nozzle size to reduce clogging.
- Spray Assembly with 2.8 mm diameter nozzle size to reduce clogging.
- 400 mm flexible off-take tubing with easy insert hypodermic adaptor.
- Purple (lilac) coloured components for easy identification of recycled water.

## Applications

*Trees, shrubs and ground covers in mulched areas.*

## Performance

Pressure (kPa)	ReuZit® Bubbler Assembly		ReuZit® Spray Assembly	
	Tested at 0.2 m above ground		Tested at 0.2 m above ground	
	Flow (lph)	Diameter (m)	Flow (lph)	Diameter (m)
30	73	0.6	150	1.3
40	85	0.7	170	1.4
50	97	0.8	195	1.7
60	107	0.9	215	2.2
70	117	1.0	230	2.6
80	124	1.0	245	2.6
90	133	1.1	260	2.6
100	141	1.1	270	2.6

## Ordering Information - ReuZit® Bubbler Assembly with Stake, 400 mm Tube & Adaptor

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
ReuZit® Bubbler Assembly	42005	10	15	7.3

## Ordering Information - ReuZit® Spray Assembly with Stake, 400 mm Tube & Adaptor

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
ReuZit® Spray Assembly	40595	10	10	5.4

## Specifications

DIMENSIONS ASSEMBLED		Bubbler Assembly	Spray Assembly
HEIGHT		343 mm	364 mm
WIDTH		52 mm	51 mm
DEPTH		28 mm	28 mm
WEIGHT (approx.)		46 g	53 g
UV STABILISED MATERIAL	FRAME	acetal	acetal
	NOZZLE	acetal	acetal
	DEFLECTOR	acetal	-
	SPRINKLER ADAPTOR	-	polypropylene
	STAKE	polypropylene	polypropylene
	TUBE	PVC	PVC
JOINER		acetal	acetal
BASE/CONNECTION TYPE: Inlet		BARB 4 mm	BARB 4 mm

ReuZit® Bubbler Assembly with Stake, 400 mm Tube & Adaptor

ReuZit® Spray Assembly Stake, 400 mm Tube & Adaptor



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

## Features

- Low pressure sprinkler with large droplet size.
- Low operating pressure range ideal for recycled water sump pumps.
- Robust stake with hammer point for inserting into soil.
- Large 3.8 mm diameter nozzle size to reduce risk of clogging.
- 13 mm barbed take-off to suit low density poly tubing.
- Purple (lilac) coloured components for easy identification of recycled water.

## Applications

Localised watering of trees and shrubs on mulched areas.

## Performance Chart

Pressure (kPa)	ReuZit® Sprinkler	
	Tested at 0.2 m above ground	
	Flow (lph)	Diameter (m)
30	275	2.6
40	335	3.1
50	380	3.4
60	420	3.9
70	455	4.3
80	490	4.5
90	520	4.6
100	550	4.7

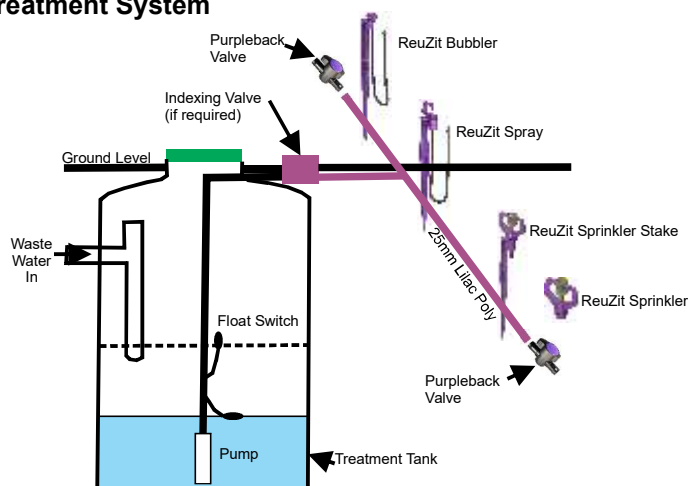
## Ordering Information - ReuZit® Sprinkler

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Sprinkler Assembly with Stake 13 mm Inlet	40585	10	8	5.4
Sprinkler 1/2" BSPM	21575	10	20	6.4

## Specifications

DIMENSIONS ASSEMBLED		Sprinkler Assembly	Sprinkler 1/2" BSPM
HEIGHT		407 mm	96 mm
WIDTH		90 mm	90 mm
DEPTH		31 mm	-
WEIGHT (approx.)		59 g	38 g
UV STABILISED MATERIALS	FRAME	polypropylene	polypropylene
	NOZZLE	acetal	acetal
	SPINNER	acetal	acetal
	STAKE	polypropylene	-
	ADAPTOR	polypropylene	-
BASE/CONNECTION TYPE: Inlet		BARB 13 mm	THREAD 1/2" BSPM

## Typical Aerobic Treatment System



ReuZit® Sprinkler Assembly with Stake 13 mm inlet



ReuZit® Sprinkler 1/2" BSPM



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

## Features

- Simple on-off operation and straight through flow.
- Operating pressure range up to 300 kPa.
- Green Back® cap for standard irrigation applications.
- Purple Back® cap for recycled water applications.
- UV stabilised materials for long life.

## Applications

Secondary zone water diversion and flow control. Always install as an in-line valve with tubes connected to both inlet and outlet.

## Ordering Information - Green Back® Valves

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Green Back® Valve 13 mm (Shank OD 12.6 mm)	45505	20	25	9.4
Green Back® Valve 14 mm (Shank OD 14.0 mm)	45575	20	25	9.6
Green Back® Valve 15 mm (Shank OD 14.6 mm)	45555	20	25	9.5
Green Back® Valve 16 mm (Shank OD 15.7 mm)	45515	20	24	9.9
Green Back® Valve 18 mm (Shank OD 17.6 mm)	45565	20	10	10.2
Green Back® Valve 19 mm (Shank OD 19.0 mm)	45525	20	10	10.3
Green Back® Valve 21 mm (Shank OD 20.8 mm)	45535	20	10	10.5
Green Back® Valve 25 mm (Shank OD 25.0 mm)	45545	20	4	7.1



Green Back® Valve

## Ordering Information - Purple Back® Valves

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Purple Back® Valve 13 mm (Shank OD 12.6 mm)	46505	20	25	9.4
Purple Back® Valve 14 mm (Shank OD 14.0 mm)	46575	20	25	9.6
Purple Back® Valve 15 mm (Shank OD 14.6 mm)	46555	20	25	9.5
Purple Back® Valve 16 mm (Shank OD 15.7 mm)	46515	20	24	9.9
Purple Back® Valve 18 mm (Shank OD 17.6 mm)	46565	20	10	10.2
Purple Back® Valve 19 mm (Shank OD 19.0 mm)	46525	20	10	10.3
Purple Back® Valve 21 mm (Shank OD 20.8 mm)	46535	20	10	10.5
Purple Back® Valve 25 mm (Shank OD 25.0 mm)	46545	20	4	7.1



Purple Back® Valve

## Specifications - Green Back® and Purple Back® Valves

Dimensions Assembled		13mm, 14mm 15mm, 16 mm	18mm, 19mm 21 mm	25 mm
HEIGHT		40 mm	60 mm	71 mm
LENGTH		81 mm	100 mm	124 mm
WIDTH		28 mm	41 mm	53 mm
WEIGHT (approx.)		18 g	49 g (18, 19 mm) 50 g (21 mm)	81 g
UV STABILISED MATERIALS	BODY STEM COVER SEAL	acetal polypropylene acetal -	acetal polypropylene acetal silicone rubber	acetal polypropylene acetal -
BASE/CONNECTION TYPE		BARB	BARB	BARB

## Specifications - Threaded Valves 1/2" MNPT & 3/4" BSPM (refer page 32)

Dimensions Assembled		1/2" MNPT	3/4" BSPM	
			13mm, 14mm, 15mm, 16 mm	18mm, 19mm, 21 mm
HEIGHT		41 mm	44 mm	60 mm
LENGTH		81 mm	81 mm	103 mm
WIDTH		28 mm	28 mm	41 mm
WEIGHT (approx.)		21 g	22 g	53 g (18, 19 mm) 54 g (21 mm)
UV STABILISED MATERIALS	BODY STEM COVER SEAL	BODY: acetal STEM: polypropylene COVER: acetal -	BODY: acetal STEM: polypropylene COVER: acetal -	BODY: acetal STEM: polypropylene COVER: acetal silicone rubber
BASE/CONNECTION TYPE		1/2" MNPT x Barb	3/4" BSPM x Barb	



Threaded flow control valves for low pressure irrigation.

## Features

- 3/4" BSPM threaded inlet or 1/2" MNPT threaded inlet.
- Simple on-off operation and straight through flow.
- Operating pressure range up to 300 kPa.
- Green Back® cap for standard irrigation applications.
- Purple Back® cap for recycled water applications.
- UV stabilised materials for long life.

## Applications

Irrigation from rain tanks, non-pressurised containers or where 1/2" MNPT or 3/4" BSPM threaded connection is required.

## Ordering Information - Threaded Green Back® Valve 1/2" MNPT

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Green Back® Valve 13mm Barb x 1/2" MNPT	49005	20	22	9.8
Green Back® Valve 14mm Barb x 1/2" MNPT	49015	20	22	9.9
Green Back® Valve 15mm Barb x 1/2" MNPT	49025	20	22	9.8
Green Back® Valve 16mm Barb x 1/2" MNPT	49035	20	22	10.3



Threaded Green Back® Valve  
1/2" MNPT

## Ordering Information - Threaded Purple Back® Valve 1/2" MNPT

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Purple Back® Valve 13mm Barb x 1/2" MNPT	49105	20	22	9.8
Purple Back® Valve 14mm Barb x 1/2" MNPT	49115	20	22	9.9
Purple Back® Valve 15mm Barb x 1/2" MNPT	49125	20	22	9.8
Purple Back® Valve 16mm Barb x 1/2" MNPT	49135	20	22	10.3



Threaded Purple Back® Valve  
1/2" MNPT

## Ordering Information - Threaded Green Back® Valve 3/4" BSPM

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Green Back® Valve 13mm Barb x 3/4" BSPM	46605	20	22	10.4
Green Back® Valve 14mm Barb x 3/4" BSPM	46675	20	22	10.6
Green Back® Valve 15mm Barb x 3/4" BSPM	46655	20	22	10.5
Green Back® Valve 16mm Barb x 3/4" BSPM	46615	20	21	10.9
Green Back® Valve 18mm Barb x 3/4" BSPM	46685	20	9	10.2
Green Back® Valve 19mm Barb x 3/4" BSPM	46695	20	9	10.2
Green Back® Valve 21mm Barb x 3/4" BSPM	46595	20	9	10.3



Threaded Green Back® Valve  
3/4" BSPM

## Ordering Information - Threaded Purple Back® Valve 3/4" BSPM

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Purple Back® Valve 13mm Barb x 3/4" BSPM	46705	20	22	10.4
Purple Back® Valve 14mm Barb x 3/4" BSPM	46775	20	22	10.6
Purple Back® Valve 15mm Barb x 3/4" BSPM	46755	20	22	10.5
Purple Back® Valve 16mm Barb x 3/4" BSPM	46715	20	21	10.9
Purple Back® Valve 18mm Barb x 3/4" BSPM	46785	20	9	10.2
Purple Back® Valve 19mm Barb x 3/4" BSPM	46795	20	9	10.2
Purple Back® Valve 21mm Barb x 3/4" BSPM	46805	20	9	10.3



Threaded Purple Back® Valve  
3/4" BSPM





A compact valve box with 4 internal solenoid valves that connect to either a 24Vac or 9Vdc Latching irrigation controller. Installation is uncomplicated and the eZyvalve® 4 provides a trouble free way to distribute water to a micro irrigation system.

## Features

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

## Applications

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

## Performance Chart

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



eZyvalve® 4 - 24Vac



eZyvalve® 4 - 9Vdc Latching



Braided Hose



## Ordering Information - eZyvalve® 4

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

## Ordering Information - Accessories

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Braided Hose 1000 mm x 3/4" BSPF	90603	1	40	16.1
Tap Adaptor 1" BSPF x 3/4" BSPM	45825	25	30	12.0

## Specifications

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

## Operating Specifications

FLOW RANGE	1 lpm - 30 lpm
PRESSURE RANGE - 24 Vac	20 kPa - 1250 kPa
PRESSURE RANGE - 9 Vdc	20 kPa - 750 kPa
AMBIENT TEMPERATURE	2° C - 60° C
ELECTRICAL - 24 Vac	24 Vac, inrush current 320 mA, holding current 260 mA at 50 Hz
ELECTRICAL - 9 Vdc Latch	9 Vdc, inrush current 1200 mA



# Pressure Regulators



Designed for low-flow micro irrigation systems. Pressure Regulators stabilise the outlet pressure, optimising dripper and spray performance.

## Features

- Inlet pressure range: 0 - 700 kPa.
- Operating flow: 0.4 - 30 lpm.
- Two outlet pressure options: 100 kPa or 175 kPa.
- 3/4" BSPF inlet x 3/4" BSPM outlet.
- High strength, chemically resistant ABS construction for durability.

## Applications

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

## Ordering Information - Pressure Regulators

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

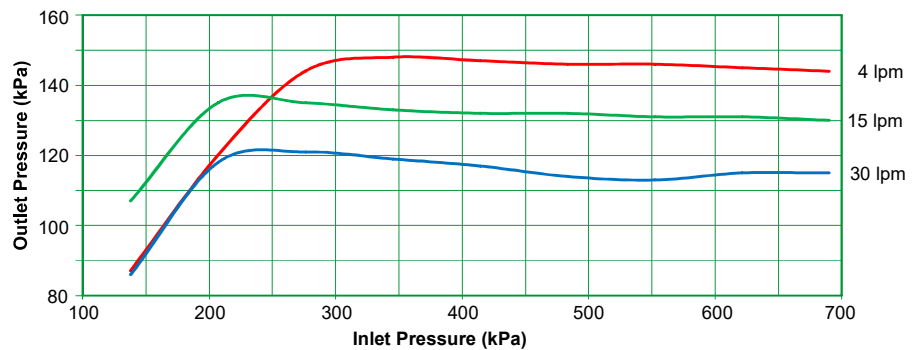


Pressure Regulator  
100 kPa

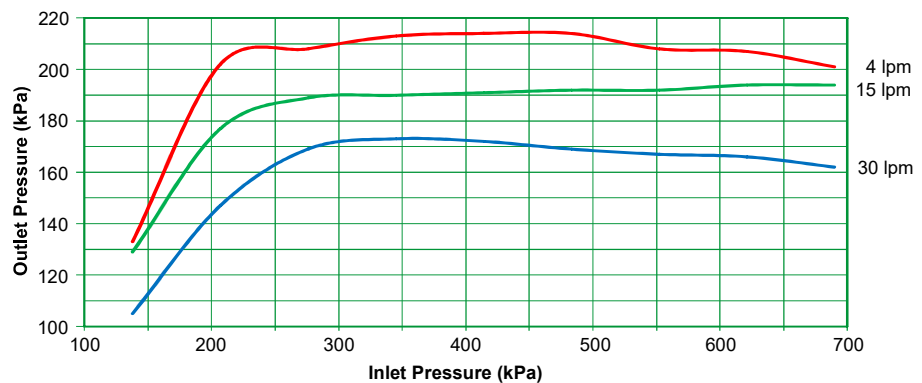


Pressure Regulator  
175 kPa

## Performance Chart - 100 kPa



## Performance Chart - 175 kPa



## Specifications

Dimensions		Operation	Connection Type	
LENGTH	68 mm	OUTLET PRESSURE	100 kPa or 175 kPa	Inlet Base 3/4" BSPF
WIDTH	34 mm	FLOW RANGE	0.4 - 30 lpm	Outlet Base 3/4" BSPM
WEIGHT (approx.)	31 g			

• 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.

# Installation Tools



A range of tools to assist in the installation of micro irrigation systems.

## Features

- Key Punch™ creates holes in tubing for inserting emitters. The hexagonal base assists in assembling jets.
- 2 in 1 Punch and Cutter is designed for cutting CVT and LDPE tubing up to 19 mm (21 mm O.D.) and punching holes into tubing for emitters and fittings.
- 2 in 1 Punch and Cutter comes pre-packaged in ready-to-hang retail pack.

## Applications

For micro irrigation systems.

## Ordering Information - Installation Tools

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Key Punch™	42315	25	50	12.1
2 in 1 Punch & Cutter	42375	1	20	1.9



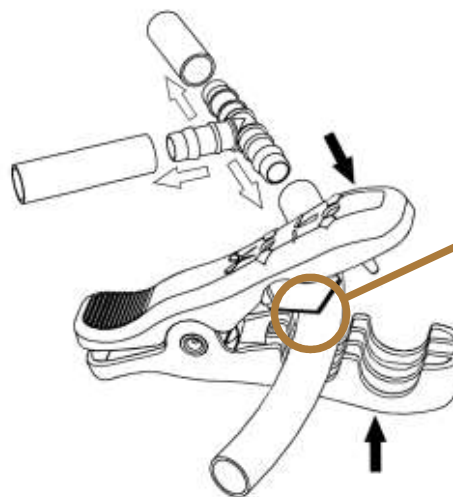
Key Punch™



2 in 1 Punch & Cutter

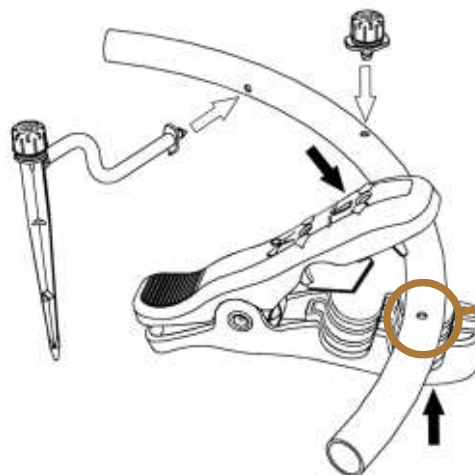


2 in 1 Punch & Cutter  
Retail Packaging



2 in 1 Punch & Cutter

Easily cuts low density poly pipe and vinyl tubing up to 22 mm O.D.



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

# Micro Fittings



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

## Features

- Single Barb configurations for connecting to micro or supply tubing.
- "Quick" thread or 10-32 UNF Thread for connecting to rigid risers.
- A range of adaptors to suit various configurations.
- Goof Plugs to repair wrongly punched holes.
- Vari-Flow™ Valves simple on-off operation controls water flow in irrigation systems.

## Applications

Home gardens, landscaping and glasshouses.

## Ordering Information - Adaptors and Joiners



Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Adaptor 4.0 mm (F) x 1/2" FNPT Thread	41015	25	80	7.6
Adaptor 4.0 mm (F) x 1/2" MNPT Thread	41075	25	90	7.3
Adaptor 4.0 mm (F) x 3/8" BSWM Thread	41025	100	130	10.6
Adaptor 4.0 mm 'Quick' Thread x Thread	40925	100	260	14.4
Adaptor 4.0 mm Barb x Thread	40945	100	280	15.6
Adaptor 4.5 mm Barb x Thread	40995	100	250	15.3
Joiner 4.0 mm Barb	40145	100	245	14.0
Joiner 4.5 mm Barb	40195	100	240	17.0
Joiner 4.0 mm Barb x Barb hypodermic	40935	100	245	14.0



## Ordering Information - Elbows, Tees and Crosses

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Elbow 4.0 mm Barb	40245	50	490	14.0
Elbow 4.5 mm Barb	40295	50	420	13.5
Tidy-Bow™ Clip On Elbow	45345	50	120	10.1
Tee 4.0 mm Barb	40345	50	315	11.8
Tee 4.5 mm Barb	40395	50	300	13.0
Cross 4.0 mm Barb	40445	50	240	11.1
Cross 4.5 mm Barb	40495	50	220	12.1

## Ordering Information - Goof (Repair) Plugs

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

## Ordering Information - Vari-Flow™ Valve

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

## Specifications - Vari-Flow™ Valve

Dimensions Assembled		4.5 mm Barb	4.0 mm Thread
HEIGHT		21 mm	21 mm
LENGTH		40 mm	40 mm
WIDTH		15 mm	15 mm
WEIGHT (approx.)		2.5 g	2.5 g
UV STABILISED MATERIALS	BODY	acetal	acetal
	KNOB	HDPE	HDPE
BASE/CONNECTION TYPE		Barb 4.5 mm	10-32 UNF Thread 4 mm



# Take-Off Fittings

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

## Features

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

## Applications

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

## Ordering Information - Take-Off Fittings

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Take-off Joiner 10 mm x 13 mm	46405	25	120	11.4
Take-off Joiner 10 mm x 14 mm	46395	25	108	11.3
Take-off Elbow 10 mm x 13 mm	46415	25	90	12.1
Take-off Elbow 10 mm x 14 mm	46435	25	80	12.0
Take-off Elbow 8 mm x 13 mm	46425	25	100	12.4



Take-off Joiner  
10 mm x 13 mm



Take-off Joiner  
10 mm x 14 mm



Take-off Elbow  
10 mm x 13 mm

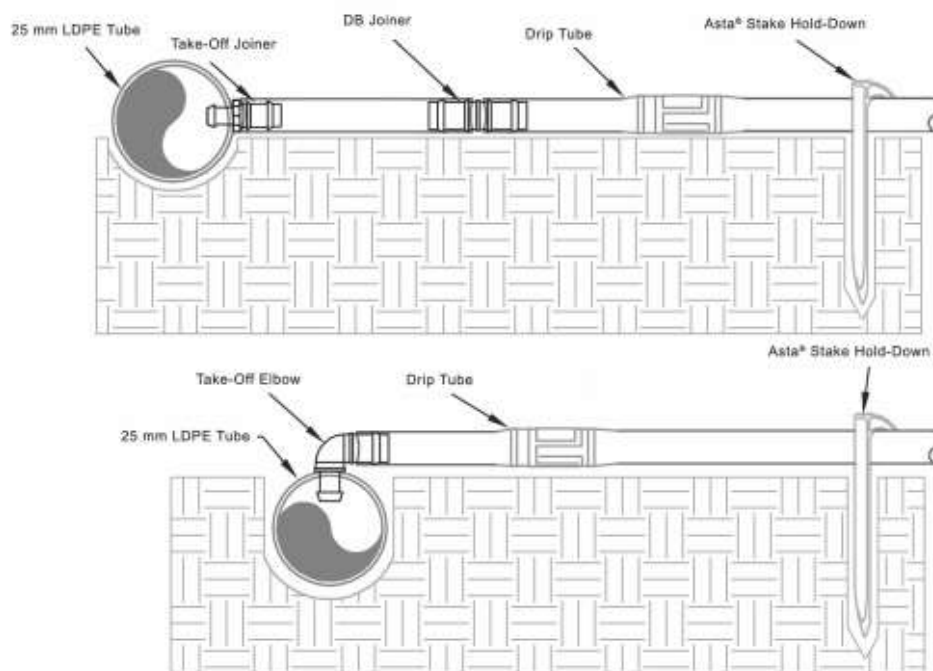


Take-off Elbow  
10 mm x 14 mm

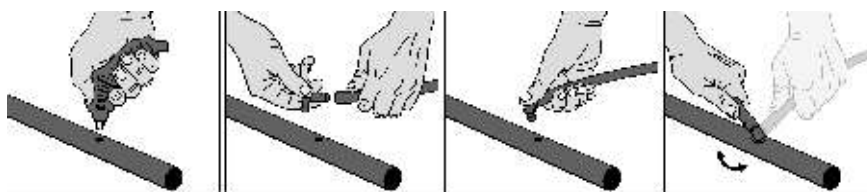


Take-off Elbow  
8 mm x 13 mm

## Applications



## Installation



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



# Xpando® Take-Off Fittings



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

## Features

- Easy to install, reducing both time and cost of installation.
- Innovative Xpando® Take-Off Adaptor with collapsible barb prevents pullout and reduces grommet damage during the installation process.
- Capo® Grommet with internal step combines with Xpando® interference barb to hold off-take firmly in place.
- UV stabilised materials for long life.

## Applications

*Agricultural, horticultural, vineyard and landscape applications.*

## Ordering Information - Xpando® Take-Off Adaptors



Xpando® Take-Off Adaptor

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Xpando® 10 mm inlet x 14 mm Take-Off	45875	25	65	9.8
Xpando® 10 mm inlet x 15 mm Take-Off	45885	25	56	9.3
Xpando® 13 mm inlet x 13 mm Take-Off	45605	25	60	8.7
Xpando® 13 mm inlet x 14 mm Take-Off	45595	25	60	9.5
Xpando® 13 mm inlet x 15 mm Take-Off	45615	25	48	8.2
Xpando® 16 mm inlet x 16 mm Take-Off	45635	25	35	8.8
Xpando® 16 mm inlet x 18 mm Take-Off	45585	25	32	8.3
Xpando® 19 mm inlet x 19 mm Take-Off	45665	25	26	9.4
Xpando® 19 mm inlet x 21 mm Take-Off	45675	25	24	8.3
Xpando® 19 mm inlet x 25 mm Take-Off	45685	25	18	8.0

## Ordering Information - Capo® Rubber Grommets



Capo® Rubber Grommet

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Capo® Rubber Grommet 10 mm	45725	100	40	12.7
Capo® Rubber Grommet 13 mm	45735	100	40	10.6
Capo® Rubber Grommet 16 mm	45745	100	24	9.6
Capo® Rubber Grommet 19 mm	45755	100	18	10.4

## Ordering Information - Xpando® Drill Bits



Drill Bit for Xpando®

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



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



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

## Features

- End Sleeves and Plugs used to terminate tube ends.
- Directors adapt tubes to valves and female fittings.
- Saddle clamps used to secure tubing.
- Compatible with Australian and International tube sizes.
- UV stabilised materials for long life.

## Applications

*Directors connect to threaded fittings, End Plugs terminate irrigation supply, Saddles and Clips secure irrigation tubes.*

**NEW** 32 mm Fittings



Director



End Plug



End Sleeve



Cross 13 mm



Saddle Clip



Saddle Clamp

## Ordering Information - Directors

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

## Ordering Information - End Plugs

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
End Plug 13 mm	44555	25	110	7.2
End Plug 19 mm	44565	25	50	7.0
End Plug 25 mm	44575	25	24	7.0
End Plug 32 mm <b>NEW</b>	44585	25	16	5.7

## Ordering Information - End Sleeve

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

## Ordering Information - Cross

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Cross 13 mm	44635	25	26	4.2

## Ordering Information - Saddle Clips

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

## Ordering Information - Saddle Clamps

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

# Joiners, Elbows and Tees



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

## Features

- Tapered entry on all barbed fittings for ease of installation.
- Range includes common Australian and International tube sizes.
- UV stabilised materials for long life.

## Applications

Home gardens, landscaping and commercially installed irrigation systems.

**NEW** 32 mm Fittings

## Ordering Information - Joiners

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Joiner 13 mm	44705	25	90	6.9
Joiner 15 mm	46005	25	60	6.6
Joiner 18 mm	46015	25	50	7.1
Joiner 19 mm	44715	25	40	6.1
Joiner 21 mm	46025	25	36	5.9
Joiner 25 mm	44735	25	20	6.3
Joiner 32 mm <b>NEW</b>	44745	25	10	4.7
Reducing Joiner 16 mm x 15 mm	46055	25	60	7.2
Reducing Joiner 19 mm x 13 mm	44805	25	50	6.2
Reducing Joiner 19 mm x 15 mm	46065	25	50	6.6
Reducing Joiner 19 mm x 18 mm	46075	25	44	6.3
Reducing Joiner 21 mm x 19 mm	46085	25	40	5.9
Reducing Joiner 25 mm x 13 mm	44765	25	32	6.8
Reducing Joiner 25 mm x 19 mm	44775	25	26	5.9
Reducing Joiner 32 mm x 25 mm <b>NEW</b>	46095	25	12	4.6



Joiner



Reducing Joiner



Elbow



Threaded Elbow Male

## Ordering Information - Elbows

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Elbow 13 mm	44835	25	75	6.6
Elbow 19 mm	44865	25	36	5.6
Elbow 25 mm	44875	25	14	5.8
Elbow 32 mm <b>NEW</b>	44825	25	8	5.1
Threaded Elbow 13 x 1/2" BSPF	44955	25	28	8.5
Threaded Elbow 19 x 1/2" BSPF	44965	25	24	7.7
Threaded Elbow 25 x 1/2" BSPF	44975	25	16	6.7
Threaded Elbow 13 x 1/2" BSPM	44885	25	34	6.4
Threaded Elbow 19 x 1/2" BSPM	44905	25	36	5.8
Threaded Elbow 19 x 3/4" BSPM	44915	25	25	5.6
Threaded Elbow 25 x 1/2" BSPM	44925	25	17	6.2
Threaded Elbow 25 x 3/4" BSPM	44935	25	14	6.2
Threaded Corner Elbow 19 x 1/2" BSPM	45005	25	16	8.7
Reducing Elbow 16 x 15 mm	46155	25	50	7.3
Reducing Elbow 19 x 15 mm	46165	25	36	6.0
Reducing Elbow 19 x 18 mm	46175	25	35	6.3
Reducing Elbow 21 x 19 mm	46185	25	30	5.9

## Ordering Information - Tees

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Tee 13 mm	45035	25	48	6.3
Tee 19 mm	45065	25	22	5.3
Tee 25 mm	45075	25	8	4.9
Tee 32 mm <b>NEW</b>	45085	25	4	3.7
Reducing Tee 19 mm line x 13 mm branch	45105	25	24	5.2
Reducing Tee 21 mm line x 19 mm branch	46255	25	18	5.4
Reducing Tee 25 mm line x 13 mm branch	45115	25	11	5.3
Reducing Tee 25 mm line x 19 mm branch	45125	25	10	5.3
Reducing Tee 32 mm line x 25 mm branch <b>NEW</b>	45135	25	5	4.0
Threaded Tee 13 mm line x 1/2" BSPF branch	45155	25	18	6.9
Threaded Tee 19 mm line x 1/2" BSPF branch	45165	25	15	6.3
Threaded Tee 25 mm line x 1/2" BSPF branch	45175	25	10	5.8
Threaded Tee 13 mm line x 1/2" BSPM branch	45185	25	25	6.5
Threaded Tee 19 mm line x 1/2" BSPM branch	45205	25	22	5.2
Threaded Tee 19 mm line x 3/4" BSPM branch	45215	25	16	4.6
Threaded Tee 25 mm line x 1/2" BSPM branch	45225	25	10	5.4
Threaded Tee 25 mm line x 3/4" BSPM branch	45235	25	9	5.4
Increasing Tee 15 mm line x 16 mm branch	46305	25	27	7.1
Increasing Tee 15 mm line x 19 mm branch	46315	25	24	5.8
Increasing Tee 18 mm line x 19 mm branch	46325	25	20	5.5



Tee



Threaded Tee Male

# Ratchet Clamps



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

## Features

- Smooth edges allow assembly by hand.
- Range of sizes to suit most low density poly (LDPE) tube connections.
- Sharp serrated teeth provide secure lock and firmly hold tube to fitting.
- Can be twisted and unclamped if required.
- Also suitable for dripline tubing.

## Applications



Home gardens and landscaping applications.



Ratchet Clamp

## Ordering Information - Ratchet Clamps

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
13 mm Ratchet Clamp #15	44305	100	50	12.4
Ratchet Clamp #17	44345	100	45	11.2
16 mm Ratchet Clamp #18	44335	100	45	11.2
Ratchet Clamp #20	44295	100	40	11.1
19 mm Ratchet Clamp #22	44315	100	35	10.6
Ratchet Clamp #23	44285	100	32	10.6
25 mm Ratchet Clamp #28	44325	100	16	10.0

	Suits I.D. Poly Tube	Tube O.D. Range	Suits O.D. Dripline
 #15	13 mm	15 - 16 mm	15 mm
 #17	14 mm	16 - 18 mm	16 - 17 mm
 #18	16 mm	17 - 19 mm	18 mm
 #20	18 mm	19 - 21 mm	20 mm
 #22	19 mm	21 - 23 mm	22 mm
 #23	21 mm	22 - 24 mm	23 mm
 #28	25 mm	27 - 30 mm	27 mm

\*New - Improved ratcheting action and ability to fit to a trellis wire



# Filters



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

## Features

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

## Applications

For low pressure micro irrigation systems.

**NEW** 25 mm Filter

## Ordering Information - In-line Filters 80 mesh Screen

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

## Ordering Information - Snap-On Filters 80 mesh Screen

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Snap-On Filter 13 mm barb	44405	25	10	9.5
Snap-On Filter 14 mm barb	44435	25	10	9.5
Snap-On Filter 16 mm barb	44415	25	8	9.7
Snap-On Filter 19 mm barb	44425	25	6	8.5



In-Line Filter

Snap-On Filter



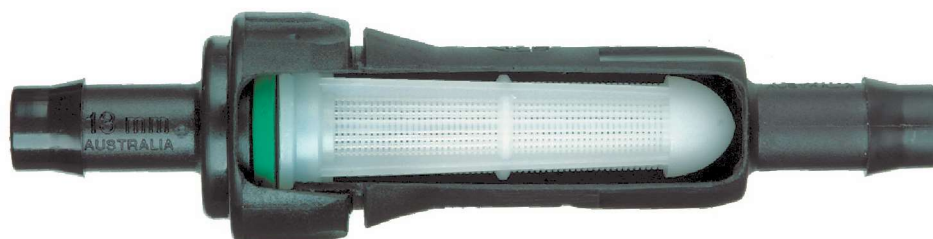
In-Line Filter 25 mm

## Specifications - In-Line Filter

Dimensions Assembled	13, 14 16 mm	19 mm	Material	Base/Connection type
LENGTH	132 mm	175 mm	TAIL Inlet: acetal	Inlet: Barb 13, 14, 16, 19mm
WIDTH	33 mm	40 mm	BODY Filter & Nut: polyprop.	Outlet: Barb 13, 14, 16, 19mm
WEIGHT (approx)	28 g	43 g	WASHER: rubber	
			SCREEN: HDPE	

## Specifications - Snap-On Filter

Dimensions Assembled	13, 14 16 mm	19 mm	Material	Base/Connection Type
LENGTH	134 mm	175 mm	BODY Snap-On Inlet: acetal	Inlet: Snap-On Connector
WIDTH	33 mm	40 mm	BODY Filter & Sleeve Snap-On: polyprop.	Outlet: barb 13, 14, 16, 19mm
WEIGHT (approx)	35 g	51 g	WASHER: TPV	
			SCREEN: HDPE	



In-Line Filter  
cut away detail

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

- Double barb for increased retention.
- Sharp-edged barbs create leak-proof seal.
- Increased strength and superior quality.
- Heat, chemical and wear resistant.
- Engineering grade UV stabilised Acetal plastic for long life.

## Applications

Low pressure micro irrigation systems.

## Ordering Information - DB Joiners

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
13 mm	47005	25	90	11.0
14 mm (suits 16 O.D. tube)	47015	25	72	10.2
15 mm (suits 17 O.D. tube)	46975	25	64	10.2
16 mm	47025	25	56	9.5
17 mm (suits 20 O.D. tube)	47815	25	50	9.9
18 mm (suits 20 O.D. tube)	47035	25	50	9.8
19 mm	46985	25	40	8.8
21 mm (suits 22/23 O.D. tube)	47045	25	34	8.6
25 mm	46995	25	20	7.2



DB Joiner

## Ordering Information - DB Reducing Joiners

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
13 mm x 14 mm I.D. (suits 16 O.D. Dripline)	47845	25	72	9.8
16 mm x 14 mm I.D. (suits 16 O.D. Dripline)	47075	25	60	9.7
18 mm x 14 mm I.D. (suits 16 O.D. Dripline)	47085	25	56	10.2
19 mm x 13 mm	47055	25	54	9.9
19 mm x 14 mm I.D. (suits 16 O.D. Dripline)	47095	25	50	9.4
19 mm x 15 mm I.D. (suits 17 O.D. Dripline)	47125	25	50	9.9
19 mm x 17 mm I.D. (suits 20 O.D. Dripline)	47855	25	45	9.4
19 mm x 18 mm I.D. (suits 20 O.D. Dripline)	47155	25	40	8.5
19 mm x 21 mm I.D. (suits 22/23 O.D. Dripline)	47185	25	36	8.8
25 mm x 13 mm	47065	25	32	8.7
25 mm x 14 mm I.D. (suits 16 O.D. Dripline)	47105	25	32	8.6
25 mm x 15 mm I.D. (suits 17 O.D. Dripline)	47135	25	28	8.0
25 mm x 16 mm	47145	25	28	8.1
25 mm x 18 mm I.D. (suits 20 O.D. Dripline)	47175	25	26	7.8
25 mm x 19 mm	47195	25	26	7.9
25 mm x 21 mm I.D. (suits 22/23 O.D. Dripline)	46965	25	24	7.7



DB Reducing Joiner



DB Elbow



DB Reducing Elbow

## Ordering Information - DB Elbows

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
13 mm	47205	25	75	10.9
14 mm (suits 16 O.D. Dripline)	47215	25	54	9.8
15 mm (suits 17 O.D. Dripline)	47375	25	50	9.6
16 mm	47225	25	42	8.9
18 mm (suits 20 O.D. Dripline)	47235	25	36	9.2
19 mm	47265	25	32	8.7
21 mm (suits 22/23 O.D. Dripline)	47245	25	24	7.9
25 mm	47255	25	14	6.7

## Ordering Information - DB Reducing Elbows

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



The DB Fittings™ range can be confidently installed without clamps when matched to quality low pressure poly (LDPE) tubing with corresponding dimensions (refer to the tubing manufacturer for confirmation of suitability or test under field conditions).

**Operating pressures up to 300 kPa.**

Size options:

- 13 mm - Suits nominal 13 mm I.D. tube
- 14 mm - Suits nominal 14 mm I.D. and 16 mm O.D. tube (Dripline)
- 15 mm - Suits nominal 15 mm I.D. and 17 mm O.D. tube (Dripline)
- 16 mm - Suits nominal 16 mm I.D. and 18 mm O.D. tube (Dripline)
- 18 mm - Suits nominal 18 mm I.D. and 20 mm O.D. tube (Dripline)
- 19 mm - Suits nominal 19 mm I.D. tube
- 21 mm - Suits nominal 21 mm I.D. and 23 mm O.D. tube (Dripline)
- 25 mm - Suits nominal 25 mm I.D. tube and 27 mm O.D. tube (Dripline)

## Ordering Information - DB Tees



DB Tee

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

## Ordering Information - DB Increasing Tees



DB Increasing Tee

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

## Ordering Information - DB Reducing Tees



DB Reducing Tee

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
13 mm line x 4 mm branch	47765	25	56	10.1
14 mm (16 O.D. Dripline) x 4 mm branch	47465	25	48	9.4
19 mm line x 13 mm branch	47535	25	22	8.0
19 mm line x 14 mm branch (suits 16 O.D. Dripline)	47755	25	22	8.2
21 mm (22/23 O.D. Dripline) x 19 mm branch	47555	25	16	7.2
25 mm line x 13 mm branch	47585	25	13	7.3
25 mm line x 14 mm branch (suits 16 O.D. Dripline)	47695	25	13	7.4

## Ordering Information - DB Director 1/2" MNPT



DB Director

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

## Ordering Information - DB End Plugs



DB End Plug

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
13 mm	47685	25	120	12.4
14 mm (suits 16 O.D. tube)	47615	25	100	11.7
16 mm	47625	25	72	10.2
18 mm (suits 20 O.D. tube)	47635	25	60	9.9
19 mm	47665	25	56	10.3
21 mm (suits 22/23 O.D. tube)	47645	25	40	8.4





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

## Features

- Asta® Stakes suitable for plasticised PVC and polyethylene tubing and Rigid Risers (6.9 mm O.D.).
- Asta® Hold-Down Stake locates and secures polyethylene tubing (up to 22 mm O.D.).
- Asta® Stake Assemblies suitable for most micro spray and micro sprinkler installations with 4 mm threaded inlets.
- UV stabilised materials for long life.

## Applications

*Asta® Stakes for rigid riser stability; Asta® Hold-Down Stake for securing drip and micro irrigation systems; Asta® Stake Assemblies for home gardens and landscape applications.*



## Ordering Information - Asta® Stakes

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

## Ordering Information - Asta® Stake Adaptor

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

## Ordering Information - Asta® Stake Assemblies

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

## Ordering Information - Asta® Clip Stake

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

## Ordering Information - Asta® Hold-Down Stake

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

## Ordering Information - Rigid Risers

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
200 mm with 'Quick' thread adaptor fitted	43125	100	26	12.6
300 mm with 'Quick' thread adaptor fitted	43135	100	18	13.8
450 mm with 'Quick' thread adaptor fitted	43145	100	11	12.8

## Ordering Information - Micro Stakes

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Micro Stake 4 mm barb inlet	40825	25	8	5.9
Micro Stake with 400 mm tube and Adaptor	40835	25	6	6.0
Micro Stake with 500 mm tube and Adaptor	40784	25	6	8.0
Micro Stake with 600 mm tube and Adaptor	40705	25	6	TBA



# Mini Sprinkler Stakes



Quality Stakes and adaptors for accurate, secure sprinkler placement.

## Features

- Three inlet connection adaptors available for use with Jumbo Stake™ and Collar Pipe Stake™.
- Collar Pipe Stake™ Adaptor for use with 26.7 mm OD PVC pipe.
- Rod Stake Adaptor for use with 5 mm OD steel or fibreglass rod.
- Stake Adaptor available with 5 mm, 10 mm and 13 mm connections.
- UV stabilised materials for long life.

## Applications

*Jumbo Stake™, Collar Pipe Stake™ assemblies, Stake Adaptors and Rod Stake Adaptors are all compatible with Rotor Rain® 3/8" BSPM threaded products.*

## Jumbo Stake™ Assembly with Adaptor to suit 3/8" BSPM Products

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Jumbo Stake™ with 5 mm barb Adaptor	40555	170	1	6.7
Jumbo Stake™ with 10 mm barb Adaptor	40515	170	1	6.7
Jumbo Stake™ with 13 mm barb Adaptor	40535	170	1	6.8
Jumbo Stake™ with 600 mm tube & Adaptor	40675	TBA	TBA	TBA

## Collar Pipe Stake™ Assembly with Adaptor to suit 3/8" BSPM Products

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Collar Pipe Stake™ with 5 mm barb Adaptor	40655	50	10	5.5
Collar Pipe Stake™ with 10 mm barb Adaptor	40615	50	10	6.0
Collar Pipe Stake™ with 13 mm barb Adaptor	40635	50	10	6.2

## Stake Adaptor to suit 3/8" BSPM Products

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Stake Adaptor 5 mm x 3/8" BSPF	40755	50	40	6.8
Stake Adaptor 10 mm x 3/8" BSPF	40715	50	34	6.7
Stake Adaptor 13 mm x 3/8" BSPF	40735	50	34	7.0

## Rod Stake Adaptors to suit 3/8" BSPM Products

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Rod Stake Adaptor 5 mm x 3/8" BSPF	40815	50	35	7.1
Rod Stake Adaptor 10 mm x 3/8" BSPF	40855	50	24	5.7

Jumbo Stake™ Assembly

NEW

Jumbo Stake™ Assembly with 600 mm Tube and Adaptor



Collar Pipe Stake™ Assembly



Stake Adaptor



Rod Stake Adaptor

# Tap Fittings

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

## Features

- Simple to use ergonomic design.
- Silicone UV35+ 'O'-Ring™ to resist ultra violet degradation.
- Tap Adaptor suits snap-on connections.
- UV stabilised materials for long life.

## Applications

Home gardens and landscaping applications.



Snap-On Tap Adaptor

Tap Adaptor Reducing Bush



Tap Adaptor BSPF x BSPM

Snap-On Connector Barb

Snap-On Connector Thread 3/4"



Snap-On Joiner



Washer

UV 35+ 'O'-Ring™



Nut and Tail

Blank Nut

## Ordering Information - Snap-On Tap Adaptors

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Snap-On Tap Adaptor 3/4" BSPF	45775	25	38	10.0
Snap-On Tap Adaptor 1" BSPF	45785	25	30	9.8
Tap Adaptor Reducing Bush 1" BSPM x 3/4" BSPF	45815	25	44	9.3
Tap Adaptor 1" BSPF x 3/4" BSPM	45825	25	30	12.0

## Ordering Information - Snap-On Connectors

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Snap-On Connector x 13 mm barb	45465	25	35	12.2
Snap-On Connector x 16 mm barb	45475	25	32	12.0
Snap-On Connector x 19 mm barb	45485	25	28	10.9
Snap-On Connector x 3/4" BSPF	44455	25	25	12.9

## Ordering Information - Snap-On Joiners

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

## Ordering Information - Washers & UV35+ 'O'-Ring™

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Washer suits 3/4" Nut&Tail, Snap-On Tap Adaptor	44075	100	115	9.5
Washer suits 1" Nut&Tail, Snap-On Tap Adaptor	44085	100	70	8.7
UV35+ 'O' Ring™	45865	100	300	10.7

## Ordering Information - Nuts and Tails

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

## Ordering Information - Blank Nuts

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

**NEW**

# Xpando® Director



## NEW PRODUCT RELEASE

A new addition to the already successful Xpando® Take-Off range, this Take-Off Director is ideal for connecting threaded sprinkler risers to rigid sprinkler lateral pipework.

### Instructions

Simply drill a hole in the sprinkler lateral with the Xpando® Drill Bit, insert the Capo® Rubber Grommet, screw the Xpando Director® into the riser and then insert into the Capo® Rubber Grommet.



Xpando® Director  
1/2" BSPM x 19 mm Take-Off



Capo® Rubber Grommet 19 mm

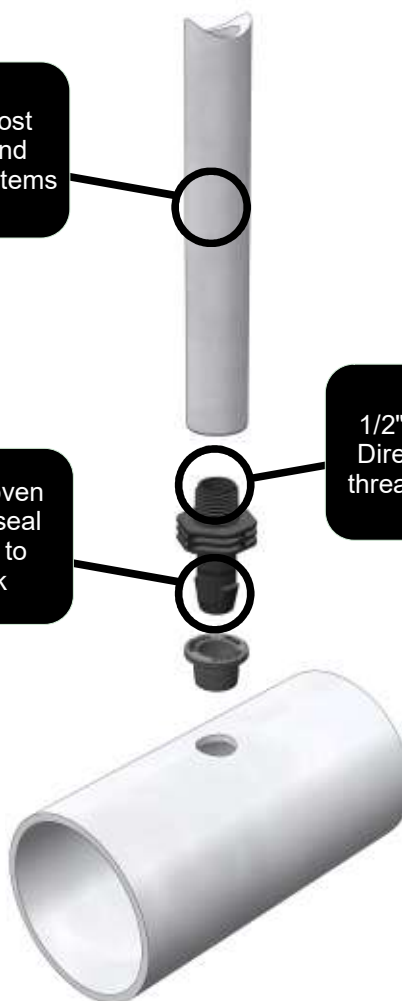


22 mm Drill Bit for 19 mm Xpando®

Can connect to most threaded uPVC and rigid HDPE pipe systems

Easy to install, proven Xpando® positive seal proof connection to lateral pipework

1/2" BSPM Threaded Director to connect to threaded sprinkler riser



### Ordering Information - Xpando® Director

Type	Order Code	Pack Quantity	Packs per Carton	Carton (kg)
Xpando® Director 1/2" BSPM x 19 mm Take-Off	45985	25	26	9.8
Capo® Rubber Grommet 19 mm	45755	100	18	10.4
22 mm Drill Bit for 19 mm Xpando®	45865	1	36	TBA

Xpando® Director	Nom. Pipe Size (min. ID)	Min. Wall Thickness	Max. Wall Thickness	Capo® Grommet	Hole Size Grommet
Xpando® Director 19 mm	50 mm	1.5 mm	6.0 mm	19 mm	22 mm

FITTINGS



## Check out our new look website...

For all the latest product information, videos, how-to guides and general irrigation information, visit our new website at [www.antelco.com](http://www.antelco.com)



## Finding a distributor is just a click away...

Check out our new website for a distributor near you.

### DISTRIBUTORS



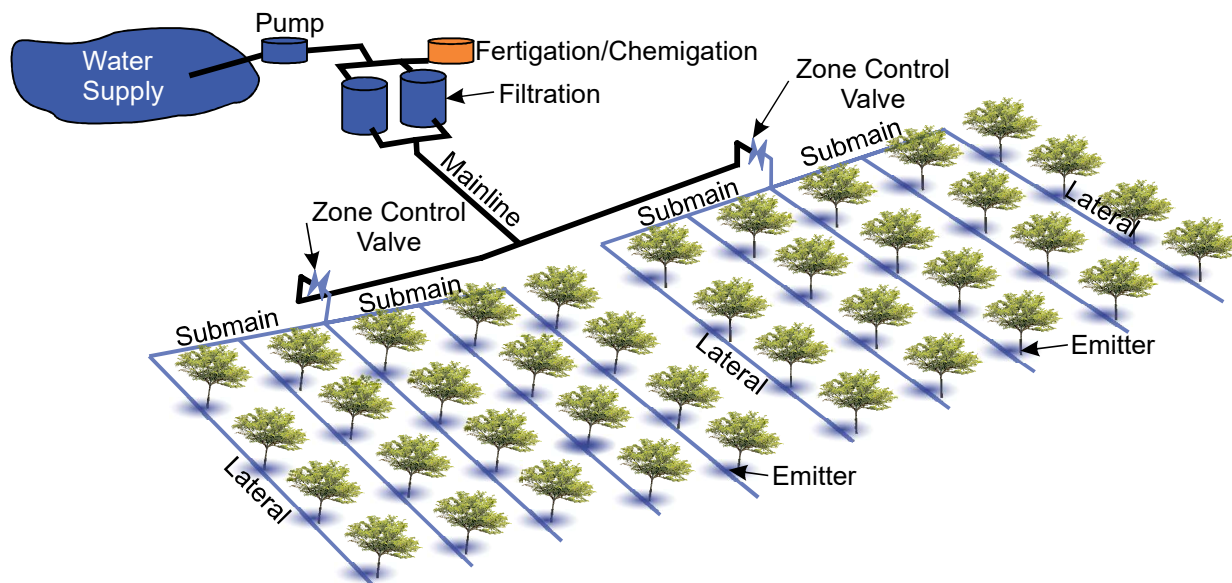
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DISTANCE (KM)



## Typical Agricultural Micro Irrigation System



A typical agricultural micro irrigation system features the following core elements:

- **Water Supply** - The water supply can be an open water source such as a River, Channel, Dam or Tank or a ground water supply such as a Bore or a Well.
- **Pump** - The pump provides the energy for the system to operate. Pump selection needs to consider the operating pressure of the micro emitters, pipe friction losses, elevation differences, valves and fittings losses, filtration losses and allow some contingencies for system inefficiencies and system ageing. A good pump selection will ensure that the pump operating efficiencies are at their peak.
- **Fertigation/Chemigation** - The fertigation system allows for the application of soluble fertilizers to be delivered through the micro irrigation system. This can be a very effective method of applying fertilizers as micro irrigation systems can have application efficiencies of up to 90%. Chemigation is the method of applying system cleansing agents such as chlorine and acid injection to clean and flush contaminants out of the system.
- **Filtration** - An essential element of a micro irrigation system a filtration system is required for removing particulate matter from the water supply. In open water situations organic matter is usually present and a good method of filtration is the use of media filtration, whereas with ground water situations there is usually more inorganic material and disc and screen filters are often used. Filters require regular backwashing and cleaning which can sometimes be automated. Filters also require regular preventative maintenance to keep them operating in peak condition. It is important to get the right filtration system for your micro irrigation system and we would recommend seeking the assistance of a certified irrigation designer for advice.
- **Mainline** - The mainline pipework transfers the water from the Water supply to the Zone control valves. The pipe is usually uPVC or PE (Polyethylene) piping systems sized to suit the demand situation. Good design practice is to have water velocities in the mainline pipework system to be less than 1.5 m/s. Changes in direction of pipework in mainlines should also be thrust blocked (anchored with concrete).
- **Zone Control Valves** - The zone control valve turns on and off the zone of emitters. These valves can be simple manual on off valves or fully automated solenoid operated valves. To provide constant pressure to the zone these valves can often incorporate a pressure regulator which can be set to a set downstream pressure. Air vacuum relief valves are also often included at these zone control valve points.
- **Submain** - The submain is the pipework that supplies the lateral pipework. It is usually either uPVC or PE Piping system. Xpando® Take offs are often used for connecting the Submain pipework to the Lateral pipework.
- **Lateral** - The lateral pipework is usually low density polyethylene (LDPE) tubing and runs along the row.
- **Emitters** - The micro emitters can be drippers, sprays or mini sprinklers and are placed to water in the root zone of the crop.
- **Flushing points** - a good micro irrigation system will incorporate flushing points at the end of the submains and the laterals. These points can be opened periodically to flush out any accumulated sediments.



## Prices and GST

Prices set out in the Antelco Australian Bulk Price List are list prices excluding GST. Prices may change without notice and customers may confirm prices at the time of ordering. Antelco tax invoices show GST for each line item, total GST and a final total including GST.

## Payment and trading terms

Payment can be made by cash, cheque, VISA or MasterCard, or by bank transfer (contact Antelco Pty Ltd for bank details). Credit customers must pay within thirty (30) days of the end of the month appearing on the invoice, or otherwise as agreed in writing.

## Orders

Orders should be faxed or e-mailed to Antelco Head Office, Murray Bridge, South Australia.

Customers may contact the Antelco Sales Department with special orders. They will be advised whether their order can be satisfied, together with pricing and anticipated delivery time.

A minimum order handling fee of \$20.00 (GST inclusive) will apply to orders with a total value of goods of less than \$120.00 (GST inclusive).

## Urgent (Air Cargo) Orders

Orders for shipment by air must be received before 10.00 am to be despatched the same day, and charges will apply. Airbags are best restricted to three or five kilograms.

## Freight and Insurance

All prices are ex works Murray Bridge South Australia. Delivery from Antelco Murray Bridge is at the customer's expense. Goods are despatched uninsured and at customers risk. Customers acknowledge that delivery insurance is their responsibility.

## Receipt of Goods

Ordered goods should be opened promptly on receipt and checked against the enclosed packing slip. should be signed. If correct, the consignment note. If any item is missing and not marked as being "back ordered", immediately advise Antelco.

## Back Orders

Back orders are treated as new orders. Back orders are invoiced when they are despatched. Customers should advise Antelco if they do not want any items back ordered or if they want back orders cancelled. Antelco will cancel a back order if it has not been despatched.

## Shortages or Damaged Goods

Claims for shortages or errors on orders despatched will not be recognized after seven (7) days from the date of delivery. If goods are received damaged or the delivery is incomplete as per the packing slip, record details on the delivery note and advise the carrier and Antelco Pty Ltd immediately.

## Force Majeure

If by reason of any fact, circumstance, matter or thing beyond its reasonable control, Antelco Pty Ltd is unable to perform in whole or in part any obligation under these Conditions of Sale then Antelco Pty Ltd is relieved of that obligation to the extent and for the period that it is so unable to perform and is not liable to the customer in respect of such inability.

## Returns

Goods will be accepted for return only if prior approval has been obtained from Antelco Pty Ltd. The goods must be undamaged, unsoiled and in a saleable condition. All returned goods must include a copy of the original invoice and packing slip. Goods that are approved for return after thirty (30) days from the date of delivery are subject to a 15% restocking charge. Freight cost and risk will remain the responsibility of the customer.

## Product Design

Antelco Pty Ltd reserves the right to re-design its products and thereby cause changes to the specifications, without notice and without incurring any liability.

## Compatibility

Antelco Pty Ltd is a manufacturer of irrigation products which are designed for use in outdoor irrigation applications only and low pressure systems where the operating pressure at the product does not exceed 300 kPa. Decisions on the use of Antelco products in any other situation remain the responsibility of the customer. If there is uncertainty as to the particular use of the product, the customer or end-user should test its suitability for that application.

## Risk and Title

Risk of loss or damage to the goods, passes to the customer at the time of despatch from the Antelco Pty Ltd warehouse.

Notwithstanding that the risk of the goods may pass to the customer, Antelco Pty Ltd retains all legal and equitable rights of ownership of the goods until payment has been made in full (including interest and any other charges associated with the supply of the goods). The customer shall store and protect the goods separately to identify them as the property of Antelco Pty Ltd until paid in full. The customer may sell the goods in the ordinary course of business, but any monies received for the sale of the goods must be held for the benefit of Antelco Pty Ltd. If the customer fails to pay the debt, Antelco Pty Ltd reserves the right to enter the premises where the goods are located, seize the goods in which ownership has not passed, and sell them to recover the amount of debt owed, without being liable for damages.

## Limit of Liability

In the event of a breach of these Conditions of Sale or of any implied warranties, whether statutory or otherwise, or arising out of or in relation to the sale of Antelco products, Antelco's liability is limited to the repair or replacement of defective goods. In no event will such a breach give rise to any liability for punitive damages, loss of profits or expected future business, damage to reputation or goodwill, loss of any order or contract or any consequential or indirect loss or damage arising from any cause whatsoever.

## Warranty

In addition to any statutory warranty and subject to these Conditions of Sale, Antelco Pty Ltd warrants that its products are of merchantable quality, free from defects or faults, and are fit for the purpose for which they were manufactured or supplied. At its option and in its sole discretion, Antelco Pty Ltd will repair or replace goods found to be defective in workmanship or materials within twelve (12) months of the date of purchase. The customer will be responsible for delivering products to be repaired to Antelco Pty Ltd.

## Applicable Law

All matters for determination between Antelco Pty Ltd and the customer shall be determined by a court of competent jurisdiction in the State of South Australia according to the laws of South Australia.

## Prices

All prices set out in the Antelco Export Price List are in Australian dollars and are ex works, Murray Bridge, South Australia, Australia. Prices may change without notice and customers may confirm prices at the time of ordering.

## Payment

Payment is required prior to despatch and may be made by VISA or MasterCard or by electronic funds transfer (contact Antelco Pty Ltd for bank details). Any fees and charges associated with the payment method are to be borne by the customer.

## Orders

Orders should be faxed or e-mailed to Antelco Head Office, Murray Bridge, South Australia.

Orders will be accepted and invoiced at the prices in effect at the date of shipment. Antelco Pty Ltd reserves the right to change prices without notice.

## Freight and Insurance

In addition to sea or air freight costs, customers will be charged for transport and any associated costs for delivery to an international departure point.

Goods are despatched uninsured and at the risk of customers who acknowledge that delivery insurance is their responsibility. Antelco can obtain insurance for customers on request.

## Packaging

All goods are packaged in export cartons in accordance with Antelco standard practice.

## Shortages or Damaged Goods

Claims for shortages or errors on orders despatched will not be recognized after seven (7) days from the date of delivery. If goods are received damaged or the delivery is incomplete as per the packing slip, record details on the delivery note and advise the carrier and Antelco Pty Ltd immediately.

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## Risk and Title

Risk of loss or damage to the goods passes to the customer and/or the carrier at the time of despatch from Antelco Pty Ltd warehouse at Murray Bridge. Antelco Pty Ltd accepts no liability for goods lost or damaged in transit, and any carrier shall be deemed to be the agent of the customer. Goods held or stored for the customer shall be at the risk and expense of the customer, from the time at which the goods otherwise have been available for collection or despatch. Notwithstanding that the risk of the goods may pass to the customer, Antelco Pty Ltd retains all legal and equitable rights of ownership of the goods until payment has been made in full (including interest and any other charges associated with the supply of the goods).

## Limit of Liability

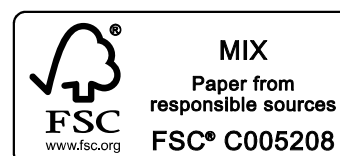
In the event of a breach of these Conditions of Sale or of any implied warranties, whether statutory or otherwise, or arising out of or in relation to the sale of Antelco products, Antelco's liability is limited to the repair or replacement of defective goods. In no event will such a breach give rise to any liability for punitive damages, loss of profits or expected future business, damage to reputation or goodwill, loss of any order or contract or any consequential or indirect loss or damage arising from any cause whatsoever.

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## Applicable Law

All matters for determination between Antelco Pty Ltd and the customer shall be determined by a court of competent jurisdiction in the State of South Australia according to the laws of South Australia.



# ANTELCO



**PUTTING WATER WHERE IT COUNTS !<sup>®</sup>**

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