

# ANTELCO



PUTTING WATER WHERE IT COUNTS!®



## 2014

## Irrigation Equipment Metric Catalogue

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**GRAPHIC**  
PRINT GROUP 



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APPENDIX



# Shrubbler® 360° & 180° Adjustable Flow Patented



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

## Features

- Finger-tip flow control with shut-off option.
- Spike model to anchor Shrubbler® at the plant.
- In-Line Spike model suits 4 mm ID connection tube.
- Barb model for direct attachment to feeder and supply lines.
- 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.



DRIPPERS



Shrubbler® Spike 4 mm

Shrubbler® Barb 4 mm



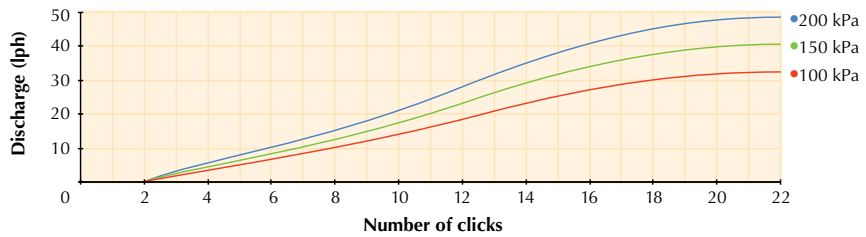
Shrubbler® Thread 4 mm



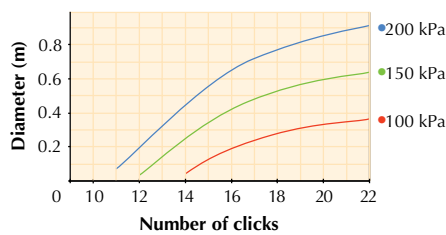
Shrubbler® In-Line Spike 4 mm

Performance			360°	180°
	PRESSURE (kPa)	FLOW (lph)	DIAMETER (m)	RADIUS (m)
fully open (approx. 22 clicks)	100	33	0.4	0.4
	150	41	0.6	0.5
	200	49	0.9	0.6

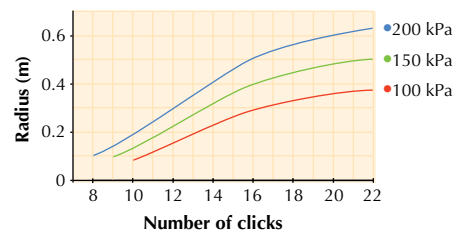
## Flow Rate 360° & 180°



## Diameter of Throw 360°



## Radius of Throw 180°



## Shrubbler® 360°

BASE TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
Barb 4 mm	31445	100	65	11.5
Thread 4 mm	31415	100	65	14.0
Thread 1/2" FNPT	31425	25	70	8.3
Spike	31495	25	40	6.3
In-Line Spike	30995	25	40	6.3

## 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, see page 1.2

# Shrubbler® 360° Pressure Compensating



A Pressure Compensating, fixed diameter drip emitter. Gentle flow action with uniform coverage for all emitters on same supply tube.

## Features


- Patented design.
- Pressure Compensating 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.

## Applications

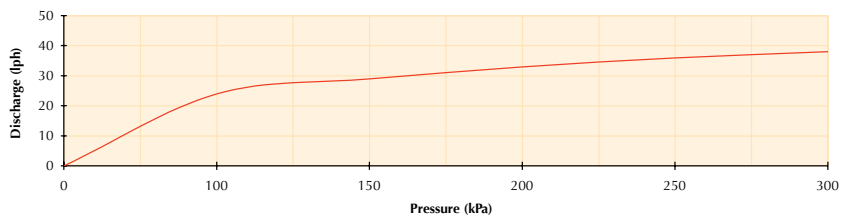
Pots, planter boxes, balcony, patio and landscape applications.



Shrubbler® 360° PC  
Barb 4 mm

Performance			 360°
NORMAL FLOW	PRESSURE (kPa)	FLOW (lph)	DIAMETER (m)
24 lph	100	24	0.3
	150	29	0.4
	200	33	0.4
	250	36	0.4
	300	38	0.4

## Flow Rate 360°



Shrubbler® 360° PC  
Spike 4 mm

## Shrubbler® 360° PC Fixed Flow

BASE TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
Barb 4 mm	31685	100	70	13.1
Spike	31695	25	60	8.7

## 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	5.4g
UV STABILISED MATERIAL	BASE CAP DIAPHRAGM	polypropylene polypropylene silicone	polypropylene polypropylene silicone
BASE/CONNECTION TYPE: Inlet		BARB 4 mm	BARB 4 mm



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 feeder and supply lines.
- 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.

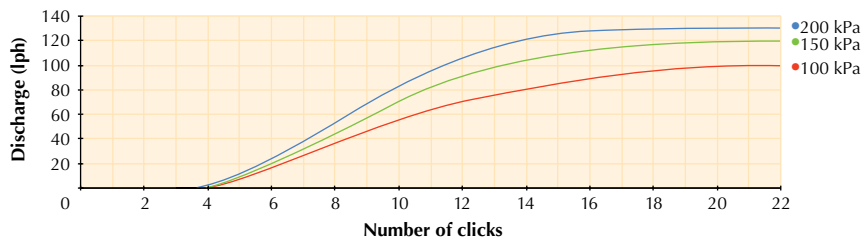


Performance		360°	
	PRESSURE (kPa)	FLOW (lph)	DIAMETER (m)
fully open (approx. 22 clicks)	100	100	0.2
	150	119	0.3
	200	130	0.5

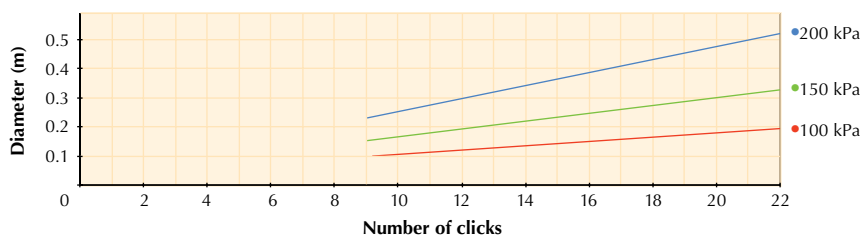


Mini Bubbler Spike 4 mm

### Flow Rate



### Diameter of Throw



Mini Bubbler Barb 4 mm

Mini Bubbler Thread 4 mm

### Mini Bubbler 360°

BASE TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
Barb 4 mm	31745	100	65	11.0
Thread 4 mm	31715	100	65	13.8
Thread 1/2" FNPT	31725	25	70	8.2
Spike	31795	25	40	6.3



Mini Bubbler Thread 1/2"

### Specifications: Shrubber® and Mini Bubbler

DIMENSIONS ASSEMBLED		BARB	THREAD	TAPER	THREAD 1/2"	SPIKE
HEIGHT		23 mm	23 mm	23 mm	34 mm	135 mm
WIDTH		20 mm	20 mm	20 mm	26 mm	42 mm
DEPTH		16 mm	16 mm	16 mm	26 mm	16 mm
WEIGHT (approx)		1.6 g	2.0 g	2.1 g	4.3 g	5.4 g
UV STABILISED MATERIAL	BASE CAP	polypropylene polypropylene	acetal polypropylene	acetal polypropylene	polypropylene polypropylene	polypropylene polypropylene
BASE/CONNECTION TYPE: Inlet		BARB 4 mm	10-32 UNF THREAD 4 mm	TAPER # 6 (Refer Page 4.0)	THREAD 1/2" FNPT	BARB 4 mm



A PC dripper with a turbulent flow path, sealed to maintain pre-set discharge rates and uniformity. Ergonomically designed for easy finger/thumb installation.

### Features

- Registered design.
- Three colour coded flow rates: 2 lph, 4 lph & 8 lph.
- Turbulent flow path and self-flushing action with insect baffle to minimise blockages.
- Inlet barb has built-in filter.
- Outlet suitable for attaching 4 mm micro tube.
- UV stabilised materials for long life.

### Applications

Pots, patios and landscape applications.



Pinch Drip™  
PC 2 lph  
Barb 4 mm

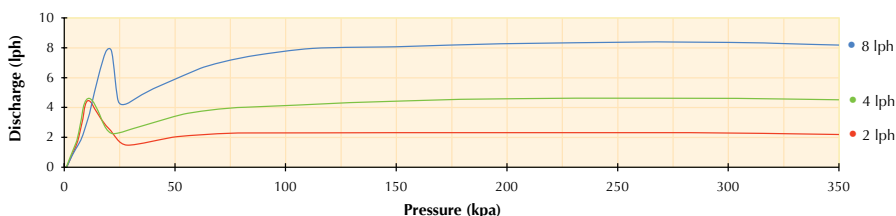
Performance PRESSURE (kPa)	DISCHARGE (lph)		
	2 lph	4 lph	8 lph
50	2.0	3.4	5.9
100	2.3	4.1	7.8
150	2.3	4.4	8.1
200	2.3	4.6	8.3
250	2.3	4.6	8.4
300	2.3	4.6	8.4
350	2.2	4.5	8.2
<b>MINIMUM CROSS SECTION (mm)</b>	0.7 x 0.6	0.8 x 0.8	1.2 x 0.9

\* C<sub>v</sub> for all Pinch Drip™ emitters conforms to ISO 9261



Pinch Drip™  
PC 4 lph  
Barb 4 mm

### Discharge Rate: Pinch Drip™ PC



### Pinch Drip™ PC

NOMINAL FLOW	BASE COLOUR	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
2 lph	Red	30705	100	85	10.1
4 lph	Black	30715	100	85	10.1
8 lph	Green	30725	100	85	10.1



Pinch Drip™  
PC 8 lph  
Barb 4 mm

### Specifications

DIMENSIONS ASSEMBLED		UV STABILISED MATERIAL	BASE/CONNECTION TYPE
HEIGHT	25 mm	CAP polypropylene	Inlet: BARB 4 mm
WIDTH	28 mm	BASE polypropylene	Outlet: SPOUT 4 mm
DEPTH	28 mm	DIAPHRAGM silicone rubber	
WEIGHT (approx)	1.1 g		



A Pressure Compensating dripper disguised as a fun and eye catching feature for your garden.

### Features

- Registered design.
- 4 lph Pressure Compensating.
- Turbulent flow path and self-flushing action with insect baffle to minimise blockages.
- Inlet barb has built-in filter.
- Outlet suitable for attaching 4 mm micro tube.
- UV stabilised materials for long life.
- Retail packaging for promotional counter sales.

### Applications

Pots, patios and landscape applications.



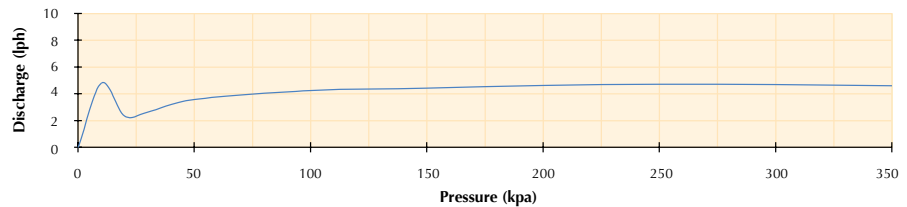
DRIPPERS



DripPets® Frog  
4 lph PC

Performance		4 lph
PRESSURE (kPa)	DISCHARGE (lph)	
50	3.4	
100	4.1	
150	4.4	
200	4.6	
250	4.6	
300	4.6	
350	4.5	

### Discharge Rate: DripPets® PC



DripPets® Ladybug  
4 lph PC

### DripPets® 4 lph Pressure Compensating

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
DripPets® Frog	30815	100	18	8.5
DripPets® Ladybug	30845	100	18	7.4



DripPets®  
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		



A PC spike dripper with turbulent flow path, sealed to maintain pre-set discharge rates and uniformity. A nursery and landscape spike dripper that delivers precise amounts of water direct to the plant root zone.

### Features

- Registered design.
- Three colour coded flow rates: 2 lph, 4 lph & 8 lph.
- Turbulent flow path and self-flushing action with insect baffle to minimise blockages.
- Inlet barb has built-in filter.
- Outlet suitable for attaching 4 mm micro tube.
- UV stabilised materials for long life.

### Applications

Nurseries, shade houses, tree lots and landscape applications.



Asta® Drip  
PC 2 lph  
Spike 4 mm



Asta® Drip  
PC 4 lph  
Spike 4 mm

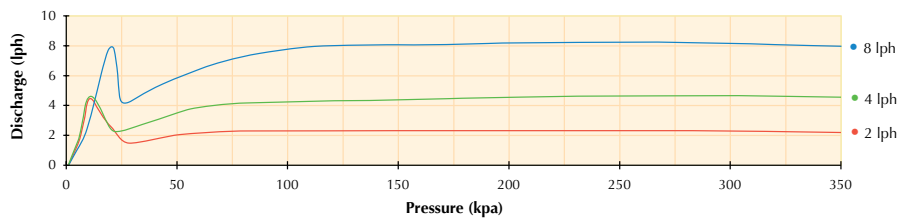


Asta® Drip  
PC 8 lph  
Spike 4 mm

Performance	DISCHARGE (lph)		
	2 lph	4 lph	8 lph
<b>PRESSURE (kPa)</b>			
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
<b>MINIMUM CROSS SECTION (mm)</b>	0.7 x 0.6	0.8 x 0.8	1.2 x 0.9

\* C<sub>v</sub> for all Asta Drip® emitters conforms to ISO 9261

### Discharge Rate: Asta® Drip PC



### Asta® Drip PC

NOMINAL FLOW	BASE COLOUR	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
2 lph	Red	30735	25	50	7.2
4 lph	Black	30745	25	50	7.2
8 lph	Green	30755	25	50	7.2

### 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				



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.



Midi Drip™  
Spike 4 mm

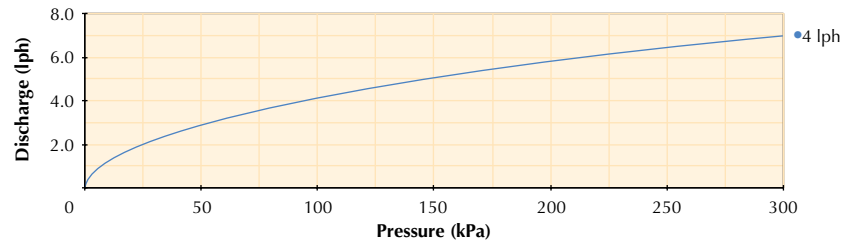


Midi Drip™  
Barb 4 mm

Performance	4 lph
PRESSURE (kPa)	DISCHARGE (lph)
50	2.8
75	3.5
100	4.0
125	4.5
150	4.9
<b>MINIMUM CROSS SECTION (mm)</b>	0.5 x 0.6

\* C<sub>v</sub> for all Midi Drip™ emitters conforms to ISO 9261

### Discharge Rate



### Midi Drip™ Emitters 4 lph

BASE TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
Barb	30145	100	80	12.7
Spike	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		



A turbulent flow, Pressure Compensating dripper available in 3 flows.

### Features

- Take-Apart for easy inspection and cleaning.
- Self-flushing action with insect baffle to minimise blockages.
- PC barbed dripper range: 2 lph, 4 lph and 8 lph with 4 mm spout.
- Also available with 3 mm and 4 mm barb outlets.
- Coloured bases to identify flow rates.
- 4 lph PC Spike and In-Line Spike models to anchor CETA® at the plant.

### Applications

Pots, planter boxes, balcony patio and landscape applications.



CETA®  
PC 4 lph  
Spike 4 mm

CETA®  
PC 4 lph  
In-Line Spike 4 mm

Performance	DISCHARGE (lph)		
	2 lph	4 lph	8 lph
<b>PRESSURE (kPa)</b>			
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
<b>MINIMUM CROSS SECTION (mm)</b>	0.7 x 0.6	0.8 x 0.8	1.2 x 0.9

\* C, for all CETA® PC emitters conforms to ISO 9261

### CETA® PC

NOMINAL FLOW	BASE COLOUR	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
2 lph	Red	30425	100	70	13.3
4 lph	Black	30445	100	70	13.3
8 lph	Green	30485	100	70	13.3

### CETA® PC with 3 mm Barb Outlet

NOMINAL FLOW	BASE COLOUR	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
2 lph	Red	30515	100	60	13.5
4 lph	Black	30525	100	60	13.5
8 lph	Green	30535	100	60	13.5

### CETA® PC with 4 mm Barb Outlet

NOMINAL FLOW	BASE COLOUR	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
2 lph	Red	30545	100	60	13.5
4 lph	Black	30555	100	60	13.5
8 lph	Green	30565	100	60	13.5

### CETA® 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

### Specifications

DIMENSIONS ASSEMBLED		CETA® PC	CETA® PC with 3 mm or 4 mm barb outlet	CETA® PC Spike/In-Line Spike
HEIGHT		25 mm	35 mm	135 mm
WIDTH		20 mm	20 mm	36 mm / 42 mm
DEPTH		16 mm	16 mm	16 mm
WEIGHT (approx)		1.7 g	2.0 g	5.0 g
UV STABILISED MATERIAL	BASE/SPIKE	polypropylene	polypropylene	polypropylene
	CAP	polypropylene	polypropylene	polypropylene
	DIAPHRAGM ADAPTOR	silicone rubber	silicone rubber	silicone rubber
CONNECTION TYPE: Inlet		BARB 4 mm	BARB 4 mm	BARB 4 mm
Outlet		SPOUT 4 mm	BARB 3 mm or 4 mm	SPOUT 4 mm



CETA®  
PC 2 lph  
Barb 4 mm

CETA®  
PC 4 lph  
Barb 4 mm

CETA®  
PC 8 lph  
Barb 4 mm

CETA®  
PC 2 lph  
Barb 4 mm  
3 mm or 4 mm  
Outlet

CETA®  
PC 4 lph  
Barb 4 mm  
3 mm or 4 mm  
Outlet

CETA®  
PC 8 lph  
Barb 4 mm  
3 mm or 4 mm  
Outlet



A turbulent flow path dripper in standard and Pressure Compensating models, sealed to maintain pre-set discharge rates and uniformity.

### Features

- Standard range: 2 lph, 4 lph and 8 lph.
- Pressure Compensating range: 2 lph, 4 lph and 8 lph.
- Positive barb connection to suit 4 mm ID tube.
- UV stabilised materials for long life.
- Resistant to common agricultural chemicals and fertilisers.

### Applications

Horticultural tree and row crops, vineyards and landscape applications.

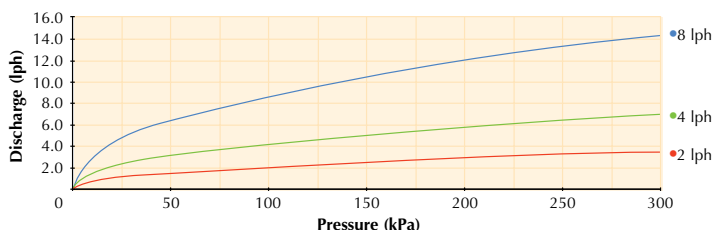


Agri Drip™ Standard Emitter

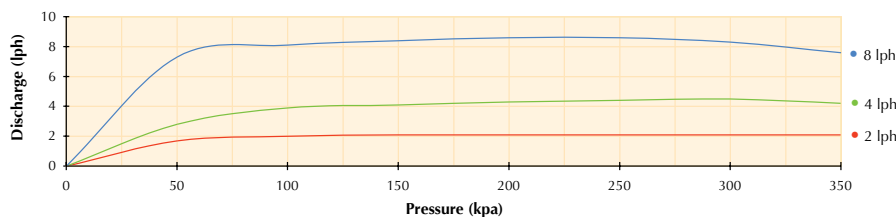
Performance	STANDARD DISCHARGE (lph)			PRESSURE (kPa)	COMPENSATING DISCHARGE (lph)		
	2 lph	4 lph	8 lph		2 lph	4 lph	8 lph
PRESSURE (kPa)							
50	1.4	3.0	6.0	100	2.0	3.9	8.1
75	1.7	3.6	7.4	150	2.1	4.1	8.4
100	2.0	4.1	8.4	200	2.1	4.3	8.6
125	2.2	4.6	9.3	250	2.1	4.4	8.6
150	2.4	5.0	10.2	300	2.1	4.5	8.3
MINIMUM CROSS SECTION (mm)	0.9x0.7	1.3x0.8	1.8x1.1		0.7x0.6	0.8x0.8	0.7x1.0

\* C<sub>v</sub> for all Agri Drip™ emitters conforms to ISO 9261

### Discharge Rate: Standard Drip Emitters



### Discharge Rate: Pressure Compensating Drip Emitters



Agri Drip™ Pressure Compensating Emitter

### Agri Drip™ Standard Drip Emitters

NOMINAL FLOW	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

### Agri Drip™ Pressure Compensating Drip Emitters

NOMINAL 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



This product has been independently tested at 100 kPa by the Australian Irrigation Technology Centre, report No A9013 and A9015 (A904.9.1 for 4 and 8 lph).

### 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		

# Spectrum™ 360° Adjustable Flow



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.
- Barb model for direct attachment to feeder and supply lines.
- Threaded model for installation into Rigid Risers and Asta® 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		360°	
	PRESSURE (kPa)	FLOW (lph)	Diameter (m)
fully open (approx. 22 clicks)	100	64	2.8
	150	78	3.6
	200	90	4.0



Spectrum™ Spike 4mm



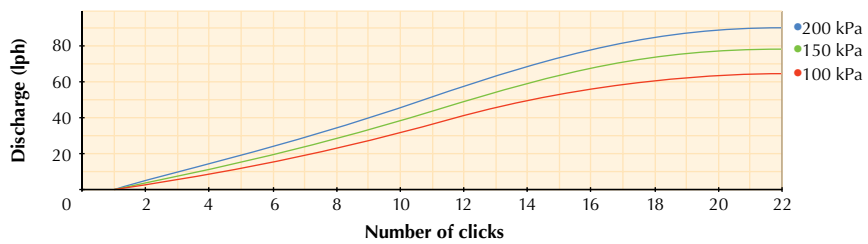
Spectrum™ Barb 4mm

Spectrum™ Thread 4mm

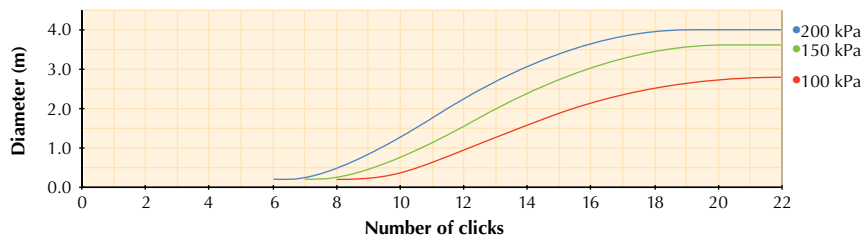


Spectrum™ Thread 1/2"

## Flow Rate



## Diameter of Throw



## 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	6.5

## Specifications

DIMENSIONS ASSEMBLED		BARB	THREAD	TAPER	THREAD 1/2"	SPIKE
HEIGHT		26 mm	26 mm	26 mm	37 mm	137 mm
WIDTH		20 mm	20 mm	20 mm	26 mm	42 mm
DEPTH		16 mm	16 mm	16 mm	26 mm	16 mm
WEIGHT (approx)		1.7 g	2.1 g	2.7 g	4.9 g	5.5 g
UV STABILISED MATERIAL	BASE CAP DEFLECTOR	polypropylene polypropylene acetal	acetal polypropylene acetal	acetal polypropylene acetal	polypropylene polypropylene acetal	polypropylene polypropylene acetal
BASE/CONNECTION TYPE: Inlet		BARB 4 mm	10-32 UNF THREAD 4 mm	TAPER # 6 (Refer Page 4.0)	THREAD 1/2" FNPT	BARB 4 mm



Economical fan spray jet for effective watering.

### Features

- Winged base with 'Quick' thread for rapid and 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.






SPRAYS



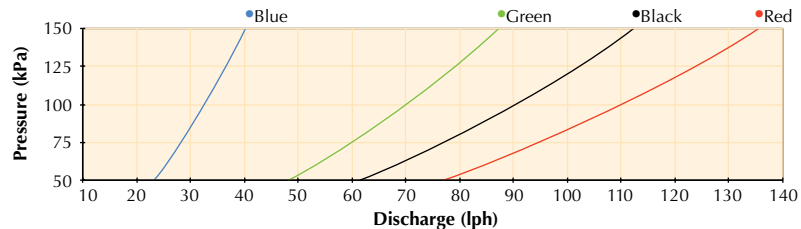
Single Piece Jets 360°

Single Piece Jets 180°

Single Piece Jets 90°

Performance					
COLOUR AND ORIFICE SIZE	PRESSURE (kPa)	FLOW (lph)	DIAMETER (m)	RADIUS (m)	
Blue 1.0 mm	50	25	1.6	0.8	1.1
	100	35	2.0	1.0	1.4
	150	43	2.4	1.2	1.7
Green 1.5 mm	50	48	2.0	1.0	1.3
	100	70	2.4	1.2	1.6
	150	88	2.8	1.5	1.9
Black 1.7 mm	50	62	2.4	1.2	1.6
	100	90	2.8	1.5	1.9
	150	113	3.2	1.8	2.2
Red 1.9 mm	50	77	2.5	1.4	1.8
	100	110	3.0	1.7	2.1
	150	134	3.4	2.0	2.4

### Flow Rate



### Single Piece Jet

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 MATERIALS	BASE/CONNECTION TYPE
HEIGHT 22 mm WIDTH across wings 12 mm WEIGHT (approx) 0.6 g	acetal	Inlet: 'QUICK' THREAD 4 mm



The 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 Black

CFd® Downspray Brown

CFd® Downspray Blue



CFd® Downspray Wire Stake Assembly

Asta® Stake CFd® Downspray Assembly

Performance		360°	
COLOUR AND ORIFICE SIZE	PRESSURE (kPa)	FLOW (lph)	DIAMETER (m)
Black 0.8 mm	50	16	0.6
	100	22	0.6
	150	27	0.5
Brown 0.9 mm	50	20	0.6
	100	29	0.5
	150	35	0.5
Blue 1.0 mm	50	24	0.6
	100	34	0.5
	150	41	0.5

### CFd® Downspray

COLOUR	ORIFICE SIZE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
Black	0.8 mm	19005	100	90	14.4
Brown	0.9 mm	19025	100	90	14.4
Blue	1.0 mm	19015	100	90	14.4

### CFd® Downspray Galvanised Wire Stake Assembly with Shut-Off Clip

COLOUR	TUBE LENGTH	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
Black	914 mm	43705	25	12	9.6
Brown	914 mm	43725	25	12	9.6
Blue	914 mm	43715	25	12	9.6

### Asta® Stake CFd® Downspray Assembly

COLOUR	TUBE LENGTH	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
Blue	300 mm	17515	25	16	11.1
Blue	914 mm	17615	25	10	8.5

### Specifications

DIMENSIONS ASSEMBLED		CFd® DOWNSPRAY	CFd® DOWNSPRAY WIRE STAKE ASSEMBLY	ASTA® STAKE CFd® DOWNSPRAY ASSEMBLY
HEIGHT		34 mm	950 mm	330 mm
WIDTH		25 mm	25 mm	30 mm
DEPTH		8 mm	15 mm	13 mm
WEIGHT (approx)		1.4 g	27.8 g	24.4 g
UV STABILISED MATERIALS	FRAME STAKE ADAPTOR OFF-TAKE TUBE BARB ADAPTOR STAKE	acetal	acetal polypropylene polyethylene acetal galvanised steel	acetal acetal PVC acetal polypropylene
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.
- Wide range of spray patterns and trajectories.
- Colour coded nozzles for flow rate identification.
- 'Quick' thread for easy insertion into tubing.

### Applications

Specifically designed for orchards, vineyards and horticultural crops.



### Frame Jets™ and Deflector

PACKAGING	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
FRAME JETS™	Refer to page 2.4	50	120	12.7
DEFLECTOR	12995	50	120	12.5



Frame Jet™  
210° x 8 Pattern

### Specifications

DIMENSIONS ASSEMBLED		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			



Deflector for  
Frame Jet™



Deflector attached  
to Frame Jet™  
Butterfly Pattern



Due to the comprehensive range of Frame Jets™ all are made to order. Allow two weeks for assembly and despatch. Urgent orders by arrangement.

PERFORMANCE		Pattern		Trajectory		A 360° x 12		B Butterfly		C 210° x 8		E 360° x 22		J 360° x 12		R Rectangular		V 300° x 10	
		Base Colour	Press (kPa)	Flow (lph)	Order Code	Diameter (m) High	Diameter (m) Low	Order Code	Diameter (m)	Order Code	Diameter (m)	Order Code	Diameter (m)	Order Code	Diameter (m) High	Diameter (m) Low	Order Code	Diameter (m)	Order Code
Black 0.8 mm	50	16	12105	3.0	2.3	3.6	12305	3.7	12505	2.3	12605	2.9	12705	2.8	1.4	3.2	12805	3.2	4.4
	100	23		3.8	3.0	5.0		5.2		3.0		3.7		3.9	1.5	4.4		4.4	
	150	29		4.5	3.8	6.0		6.1		3.2		4.2		4.4	1.7	5.1		5.1	
	200	33		5.2	4.3	6.5		6.4		3.4		4.8		5.1	2.0	5.5		5.5	
Orange 0.85 mm	250	37		5.9	4.6	7.2		6.7		3.8		5.0		5.8	2.0	6.1		6.1	
	50	18	12175	3.6	2.8	4.1	12375	3.9	12575	2.6	12675	3.2	12775	3.1	2.0	3.4	12875	3.4	3.4
	100	26		4.7	3.9	5.4		5.3		3.4		4.3		4.3	2.6	4.5		4.5	
	150	32		5.6	4.5	6.0		5.9		3.8		5.0		5.1	3.0	5.4		5.4	
Brown 0.9 mm	200	37		5.9	5.0	6.8		6.5		4.3		5.5		5.5	3.4	6.1		6.1	
	250	42		6.9	5.5	7.6		7.0		4.7		6.0		5.9	3.7	6.5		6.5	
	50	21	12125	3.2	2.6	4.2	12325	3.6	12525	2.6	12625	3.0	12724	3.2	1.8	3.6	12825	3.6	3.6
	100	30		4.6	3.6	6.1		4.9		3.5		3.9		4.2	2.4	4.6		4.6	
Blue 1.0 mm	150	37		5.6	4.4	6.8		5.6		3.8		4.4		4.9	2.7	5.4		5.4	
	200	43		6.1	5.0	7.4		6.1		4.2		4.9		6.0	2.9	6.1		6.1	
	250	48		7.0	6.0	8.1		6.7		4.6		5.3		6.3	3.1	6.6		6.6	
	50	26	12115	4.0	3.0	4.4	12315	4.3	12515	3.1	12615	3.8	12715	3.5	2.3	3.9	12815	3.9	3.9
Purple 1.1 mm	100	37		5.4	4.7	6.0		6.0		3.8		4.8		4.8	2.8	5.5		5.5	
	150	46		5.7	4.7	6.7		6.8		4.4		5.7		5.5	3.2	6.1		6.1	
	200	54		7.9	6.7	8.3		7.5		5.0		6.1		6.3	3.5	6.8		6.8	
	250	60		7.4	6.3	8.6		7.9		5.5		6.5		6.8	3.8	7.5		7.5	
Grey 1.23 mm	50	31	12165	4.4	3.4	5.3	12365	4.7	12565	3.5	12665	3.9	12765	3.4	2.2	4.8	12865	4.8	4.8
	100	45		6.5	4.7	7.1		6.5		4.4		5.4		4.7	2.7	6.4		6.4	
	150	55		7.3	5.4	7.9		7.5		5.0		6.5		5.5	3.5	7.4		7.4	
	200	65		8.0	6.1	9.2		8.6		5.7		6.9		6.4	3.8	8.4		8.4	
Green 1.3 mm	250	73		8.6	6.8	9.9		9.0		6.3		7.4		6.9	4.3	9.1		9.1	
	50	37	12145	5.2	4.1	5.5	12345	5.4	12545	3.7	12645	4.8	12745	4.2	2.5	5.0	12845	5.0	5.0
	100	53		7.3	5.9	7.6		7.4		5.1		6.4		5.6	3.7	6.8		6.8	
	150	65		8.6	6.8	8.6		8.3		5.6		7.4		6.5	4.2	8.4		8.4	
Red 1.55 mm	200	76		9.4	7.7	9.5		9.4		6.4		8.2		7.3	4.7	9.1		9.1	
	250	85		10.3	8.5	10.1		10.4		6.8		8.9		7.7	5.0	10.0		10.0	
	50	42	12135	4.9	3.8	5.4	12335	5.2	12535	3.8	12635	4.5	12735	3.9	3.1	5.2	12835	5.2	5.2
	100	61		6.5	5.3	7.1		7.1		5.0		6.1		5.0	4.1	7.2		7.2	
Red 1.55 mm	150	75		7.4	6.4	8.6		8.2		5.9		7.0		6.1	4.8	8.5		8.5	
	200	87		8.2	7.0	9.5		9.1		6.6		7.6		6.7	5.3	9.3		9.3	
	250	98		9.0	7.8	10.8		10.2		7.3		8.1		7.4	5.7	10.3		10.3	
	50	57	12155	5.5	4.3	6.4	12355	5.6	12555	4.3	12655	5.0	12755	4.2	3.7	6.0	12855	6.0	6.0
Red 1.55 mm	100	84		7.8	6.0	8.6		7.8		5.7		7.2		6.1	4.9	8.2		8.2	
	150	103		9.6	6.9	10.0		8.9		6.6		8.7		7.1	5.9	9.7		9.7	
	200	120		11.4	8.2	11.2		9.8		7.6		9.5		8.1	6.5	10.9		10.9	
	250	136		12.4	9.3	12.3		11.0		8.2		10.0		9.1	7.2	12.0		12.0	



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

### Features

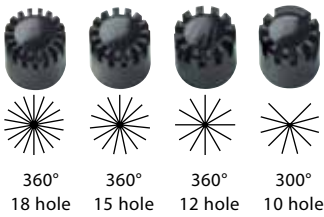
- Caps available in eight spray patterns.
- Eight colour coded bases to identify flow rate.
- Jet assemblies made to order.
- Caps and bases can be ordered separately.

### Applications

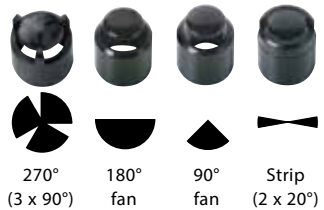
Assemblies suit garden bed watering and landscaped areas.



SPRAYS



360° 18 hole    360° 15 hole    360° 12 hole    300° 10 hole



270° (3 x 90°) fan    180° fan    90° fan    Strip (2 x 20°)

Winged Jet Base with 'Quick' Thread



0.8 mm    0.9 mm    1.0 mm



1.3 mm    1.5 mm

Hexagon Jet Base 10-32 UNF Thread



1.8 mm    2.0 mm    2.3 mm

### Spray Caps

SPRAY PATTERN	CAP COLOUR	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
360° x 18 hole	Black	10845	100	500	15.1
360° x 15 hole	Black	10855	100	500	15.1
360° x 12 hole	Black	10865	100	500	15.1
300° x 10 hole	Black	10875	100	500	15.1
270° (3 x 90°)	Black	10835	100	500	15.1
180° fan	Black	10825	100	500	15.1
90° fan	Black	10815	100	500	15.1
Strip (2 x 20°)	Black	10885	100	500	15.1

### Jet Bases

COLOUR	BASE		ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
	ORIFICE SIZE	TYPE				
Black	0.8 mm	Winged	10705	100	310	17.2
Brown	0.9 mm	Winged	10725	100	310	17.2
Blue	1.0 mm	Winged	10715	100	310	17.2
Green	1.3 mm	Winged	10735	100	310	17.2
Red	1.5 mm	Winged	10755	100	310	17.2
Orange	1.8 mm	Hexagon	10975	100	350	17.1
Grey	2.0 mm	Hexagon	10945	100	350	17.1
White	2.3 mm	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	10-32 UNF THREAD 4 mm

Dimensions vary slightly depending on cap selected

### Specifications: Micro Spray Jets: Winged & Tapered (Refer to page 2.6 & 4.0)

DIMENSIONS ASSEMBLED		BASE WINGED	BASE TAPER
HEIGHT		23 mm	21 mm
WIDTH		across wings 12.5 mm	across flats 8 mm
WEIGHT (approx)		0.7 g	0.8 g
UV STABILISED MATERIALS	BASE CAP	acetal acetal	acetal acetal
BASE/CONNECTION TYPE: Inlet		'QUICK' THREAD 4 mm	TAPER # 6

Dimensions vary slightly depending on selected base and cap assembly

# Micro Spray Jets: Winged



Two piece jets with precise watering patterns. Winged base for easy hand installation. Effective performance at low pressure (100 kPa).

## Features

- Nine optional 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.



360° x 18 hole

180° fan



90° fan

Strip Spray  
(2 x 20°)



Mist Jet

360° x 18 hole



180° fan

90° fan

Performance											
*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 COLOUR & ORIFICE SIZE	PRESS. (kPa)	FLOW (lph)	DIAMETER (m)						RADIUS (m)		DIAMETER (m)
Black 0.8 mm	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	
Brown 0.9 mm	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	
Blue 1.0 mm	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	
Green 1.3 mm	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	
Red 1.5 mm	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	
Orange 1.8 mm	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	
Grey 2.0 mm	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	
White 2.3 mm	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	
Yellow 0.36 mm	50	13									1.0
	100	18									0.8
	150	22									0.9
	200	25									0.8
	250	28									0.8

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

## Micro Spray Jet: Winged

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 Jet	Yellow	Black	14995	100	220	18.6
360° x 18 hole	Green	Black	14435	100	220	17.8
180° fan	Green	Black	14235	100	220	17.8
90° fan	Green	Black	14135	100	220	17.8

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 - 1,000 Assemblies.



Valve adjusts flow and coverage.

### Features

- Choice of spray patterns.
- Threaded for installation on Rigid Risers.
- UV stabilised materials for long life.

### Applications

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



SPRAYS



Vari-Jet™  
180° fan  
10-32 UNF Thread

Cap Colour Options			BLACK	BLACK	BLACK	BLACK
			RED		BLUE	
<b>Performance</b>						
*Minimum Opening Size			0.5 mm	1.2 mm	1.5 mm	1.5 mm
BASE COLOUR OPTIONS & ORIFICE SIZE	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
Yellow or Black max 0.36 mm	250	0 - 130	0 - 7.2		0 - 3.4	0 - 3.3
	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		

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

### Vari-Jet™



Vari-Jet™  
180° fan  
10-32 UNF Thread

SPRAY PATTERN	BASE COLOUR TYPE	CAP COLOUR	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
360° x 18 hole 180° fan 90° fan Mist	Yellow 10-32 UNF	Red	13245	50	80	11.3
	Yellow 10-32 UNF	Blue	13225	50	80	11.3
	Yellow 10-32 UNF	Black	13215	50	80	11.3
	Yellow 10-32 UNF	Black	13295	50	80	11.7
360° x 18 hole 180° fan 90° fan Mist	Black 10-32 UNF	Black	13145	50	80	11.3
	Black 10-32 UNF	Black	13125	50	80	11.3
	Black 10-32 UNF	Black	13115	50	80	11.3
	Black 10-32 UNF	Black	13195	50	80	11.7

### Specifications

DIMENSIONS ASSEMBLED		UV STABILISED MATERIAL	BASE/CONNECTION TYPE
HEIGHT	32 mm	CAP acetal	Inlet: 10-32 UNF THREAD 4 mm
WIDTH	22 mm	BASE acetal	Inlet: TAPER # 6 (Refer to Page 4.0)
WEIGHT (approx)	2.3 g	KNOB HDPE	
Dimensions vary slightly depending on selected base and cap assembly			

# Micro Spray Assemblies



Pre-assembled to save on installation time. Vari-Jet™ models have flow control to adjust radius of throw and reduce flow. Effective performance at low pressure (100 kPa).

### 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.
- Asta® Stake assembly with 290 mm off-take tube on 300 mm stake.
- UV stabilised materials for long life.

### Applications

Home and landscaped gardens.



SPRAYS

Performance					
COLOUR AND ORIFICE SIZE	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.



Vari-Jet™ Spike  
180° fan

### 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

### Asta® Stake Winged Micro Spray Assembly (Refer page 2.6 for performance data)

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

### Asta® Stake Vari-Jet™ Assembly (Refer page 2.7 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	ASTA® STAKE WINGED™ MICRO SPRAY ASSEMBLY	ASTA® STAKE VARI-JET™ 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 ADAPTOR RISER KNOB OFF-TAKE TUBE BASE/CAP	polypropylene polypropylene HDPE - - PVC acetal	polypropylene acetal - - PVC acetal	polypropylene acetal - HDPE PVC acetal
BASE/CONNECTION TYPE: Inlet		BARB 4 mm	BARB 4 mm	BARB 4 mm



Asta® Stake Winged™  
Micro Spray  
Assembly

Asta® Stake Vari-Jet™  
Assembly



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.
- Threaded for installing into Rigid Risers 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.



Rotor Spray™  
10-32 UNF Thread

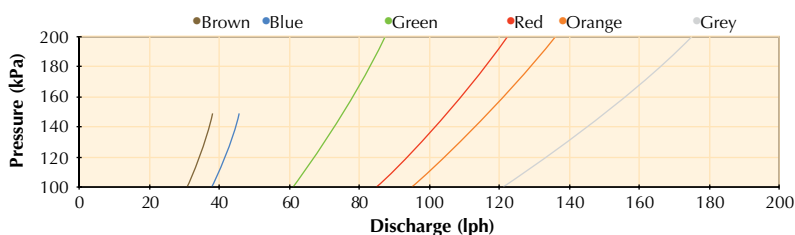


Inverted Rotor Spray™  
10-32 UNF Thread



Vari-Rotor Spray™  
10-32 UNF Thread

### Flow Rate



### Rotor Spray™

COLOUR	BASE		ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
	ORIFICE SIZE	BASE TYPE				
Brown	0.9 mm	10-32 UNF	20025	50	110	12.5
Blue	1.0 mm	10-32 UNF	20015	50	110	12.5
Green	1.3 mm	10-32 UNF	20035	50	110	12.5
Red	1.5 mm	10-32 UNF	20055	50	110	12.5
Orange	1.8 mm	10-32 UNF	20075	50	110	12.5
Grey	2.0 mm	10-32 UNF	20045	50	110	12.5

### Asta® Stake Rotor Spray™ Assembly with 300 mm tube and barb adaptor

COLOUR	BASE		ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
	ORIFICE SIZE	BASE TYPE				
Green	1.3 mm	10-32 UNF	17245	25	16	14.5

### Inverted Rotor Spray™

COLOUR	BASE		ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
	ORIFICE SIZE	BASE TYPE				
Brown	0.9 mm	10-32 UNF	20125	50	110	12.5
Blue	1.0 mm	10-32 UNF	20115	50	110	12.5
Green	1.3 mm	10-32 UNF	20135	50	110	12.5
Red	1.5 mm	10-32 UNF	20155	50	110	12.5

### Vari-Rotor Spray™

COLOUR	BASE		ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
	ORIFICE SIZE	BASE TYPE				
Yellow	1.5 mm	10-32 UNF	20295	25	88	9.6
Black	1.5 mm	10-32 UNF	20205	25	88	9.6

### Asta® Stake Vari-Rotor Spray™ Assembly with 300 mm tube and barb adaptor

COLOUR	BASE		ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
	ORIFICE SIZE	BASE TYPE				
Black	1.5 mm	10-32 UNF	17295	25	13	10.0



This product has been independently tested by the Australian Irrigation Technology Centre, report No A9107.9.2



Asta<sup>®</sup> Stake Rotor Spray™ Assembly



Asta<sup>®</sup> Stake Vari-Rotor Spray™ Assembly

Performance			ROTOR SPRAY™		VARI-ROTOR SPRAY™		INVERTED ROTOR SPRAY™	
			●		●		●	
			Tested 0.2 m above ground		Tested 0.2 m above ground		Tested 0.8 m above ground	Tested 2.0 m above ground
BASE COLOUR & ORIFICE SIZE	PRESS. (kPa)	FLOW (lph)	DIAMETER (m)	STREAM HEIGHT (m)	DIAMETER (m)	STREAM HEIGHT (m)	DIAMETER (m)	DIAMETER (m)
Brown 0.9 mm	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
Blue 1.0 mm	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
Green 1.3 mm	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
Red 1.5 mm	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
Orange 1.8 mm	100	95	6.7	0.3				
	150	117	7.5	0.4				
	200	135	8.4	0.5				
Grey 2.0 mm	100	120	6.8	0.4				
	150	150	7.8	0.4				
	200	175	8.0	0.5				
Yellow max 1.5 mm	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		
Black max 1.5 mm	100	0 - 82			0 - 6.5	0 - 0.4		
	150	0 - 105			0 - 7.5	0 - 0.4		
	200	0 - 123			0 - 8.1	0 - 0.4		

## Specifications

DIMENSIONS ASSEMBLED		ROTOR SPRAY™ and INVERTED ROTOR SPRAY™	ROTOR SPRAY™ and INVERTED ROTOR SPRAY™	VARI-ROTOR SPRAY™
HEIGHT		35 mm	34 mm	45 mm
WIDTH		27 mm	27 mm	27 mm
WEIGHT (approx)		2 g	2.2 g	3.5 g
UV STABILISED MATERIALS	FRAME BASE FLIPPER KNOB	acetal acetal nylon -	acetal acetal nylon -	acetal acetal nylon HDPE
BASE/CONNECTION TYPE: Inlet		10-32 UNF THREAD 4 mm	TAPER # 6 (Refer to Page 4.0)	10-32 UNF THREAD 4 mm





Low trajectory, large droplet mini sprinkler.

### Features

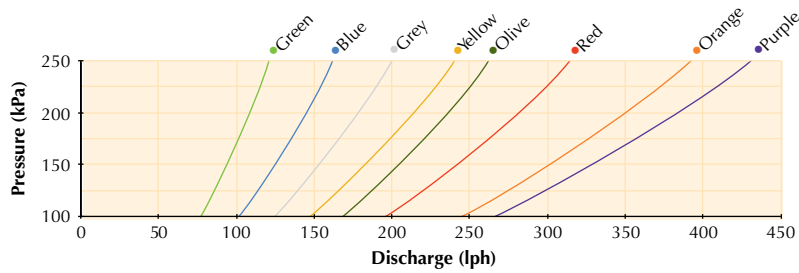
- 'C' Frame design for strength and high distribution uniformity.
- Full flow flipper suspended between two bearings for reliable performance.
- Colour coded nozzles to identify flow rates.
- Break-off spray deflector for close-in watering of immature trees.

### Applications

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



### Flow Rate



Rotor Rain®  
3/8" Thread

### Rotor Rain® 3/8" BSPM

COLOUR	BASE		ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
	ORIFICE SIZE					
Green	1.5 mm		20335	50	28	11.8
Blue	1.7 mm		20315	50	28	11.8
Grey	1.9 mm		20345	50	28	11.8
Yellow	2.0 mm		20395	50	28	11.8
Olive	2.1 mm		20385	50	28	11.8
Red	2.4 mm		20355	50	28	11.8
Orange	2.6 mm		20375	50	28	11.8
Purple	2.8 mm		20365	50	28	11.8



Rotor Rain®  
1/2" Thread

### Rotor Rain® 1/2" MNPT

COLOUR	BASE		ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
	ORIFICE SIZE					
Green	1.5 mm		20535	50	20	11.4
Blue	1.7 mm		20515	50	20	11.4
Grey	1.9 mm		20545	50	20	11.4
Yellow	2.0 mm		20595	50	20	11.4
Olive	2.1 mm		20585	50	20	11.4
Red	2.4 mm		20555	50	20	11.4
Orange	2.6 mm		20575	50	20	11.4
Purple	2.8 mm		20565	50	20	11.4

### Rotor Rain® 3/8" MNPT

COLOUR	BASE		ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
	ORIFICE SIZE					
Green	1.5 mm		20435	50	28	11.8
Blue	1.7 mm		20415	50	28	11.8
Grey	1.9 mm		20445	50	28	11.8
Yellow	2.0 mm		20495	50	28	11.8
Olive	2.1 mm		20485	50	28	11.8
Red	2.4 mm		20455	50	28	11.8
Orange	2.6 mm		20475	50	28	11.8
Purple	2.8 mm		20465	50	28	11.8



This product has been independently tested by the Australian Irrigation Technology Centre, report No A9010.

Rotor Rain® 3/8" BSPM and 1/2" MNPT are standard items with green, blue, grey or red bases. All others assembled to order. Allow two weeks for assembly and despatch. Urgent orders by arrangement.



Rotor Rain®  
3/8" Thread



Rotor Rain®  
1/2" Thread

Performance			●		
			Tested 0.2m above ground		
NOZZLE COLOUR AND ORIFICE SIZE	PRESSURE (kPa)	FLOW (lph)	DIAMETER (m)	STREAM HEIGHT (m)	DEFLECTOR DIAMETER (m)
Green 1.5 mm	100	77	7.8	0.5	2.8
	150	94	8.7	0.5	
	200	110	9.1	0.6	
	250	120	8.5	0.7	
Blue 1.7 mm	100	100	8.6	0.7	2.8
	150	125	9.3	0.7	
	200	145	9.6	0.8	
	250	163	9.3	0.9	
Grey 1.9 mm	100	125	8.9	0.7	2.8
	150	153	10.2	0.8	
	200	178	9.8	0.8	
	250	200	10.0	0.9	
Yellow 2.0 mm	100	147	10.0	0.6	3.0
	150	183	11.0	0.8	
	200	215	11.2	0.9	
	250	240	11.0	1.0	
Olive 2.1 mm	100	168	10.7	0.7	3.0
	150	205	11.6	0.8	
	200	235	11.8	0.9	
	250	265	11.4	0.9	
Red 2.4 mm	100	195	11.0	0.6	3.2
	150	240	12.5	0.9	
	200	280	12.5	1.0	
	250	315	12.1	1.0	
Orange 2.6 mm	100	245	10.9	0.7	3.2
	150	300	11.9	0.8	
	200	350	12.1	0.9	
	250	395	12.0	1.0	
Purple 2.8 mm	100	265	11.2	0.8	4.0
	150	330	12.8	0.9	
	200	385	13.0	1.0	
	250	430	12.4	1.1	

## Specifications

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





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, black coloured spinner.
- Inverted model has a 0° flat trajectory, khaki coloured spinner.
- Suitable for recycled water applications subject to adequate filtration.
- 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.



Rotor Max™

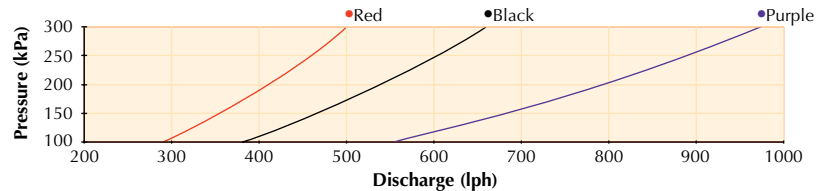


Inverted Rotor Max™

Performance		Inverted Rotor Max™ tested 2m above ground		Rotor Max™ tested 0.2m above ground	
NOZZLE COLOUR	PRESSURE (kPa)	FLOW (lph)	DIAMETER (m)	STREAM HEIGHT (m)	
Red 2.8 mm	100	300	11.0	0.9	
	200	400	13.0	1.2	
	250	460	13.0	1.2	
	300	500	13.0	1.4	
Black 3.2 mm	100	375	11.0	0.9	
	200	540	13.0	1.2	
	250	600	13.0	1.2	
	300	660	14.0	1.3	
Purple 3.8 mm	100	550	11.9	0.7	
	200	775	13.8	1.0	
	250	875	14.0	1.1	
	300	975	13.4	1.2	

\* Stream height is applicable only to the Rotor Max™

### Flow Rate



### Rotor Max™ 3/8" BSPM

NOZZLE		ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
COLOUR	ORIFICE SIZE				
Red	2.8 mm	21155	20	10	8.0
Black	3.2 mm	21105	20	10	8.0
Purple	3.8 mm	21165	20	10	8.0

### Rotor Max™ 1/2" BSPM

NOZZLE		ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
COLOUR	ORIFICE SIZE				
Red	2.8 mm	21055	20	10	6.4
Black	3.2 mm	21005	20	10	6.4
Purple	3.8 mm	21065	20	10	6.4

### Inverted Rotor Max™ 1/2" BSPM

NOZZLE		ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
COLOUR	ORIFICE SIZE				
Red	2.8 mm	21555	20	10	6.4
Black	3.2 mm	21505	20	10	6.4
Purple	3.8 mm	21565	20	10	6.4

### 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	



This product has been independently tested by the Australian Irrigation Technology Centre, report No A95033.



The GS1 is a fully adjustable lawn and garden sprinkler.

### Features

- Full or part circle adjustable spray pattern 15° to 360°.
- Radius adjustable from 7.5 m to 11 m.
- Blue watering arc indicator.
- Built-in filter protects working parts and nozzle.
- Slides easily to relocate.
- Whisper quiet operation.
- Snap-On base connection.
- Supplied in bar-coded retail carton.

### Applications

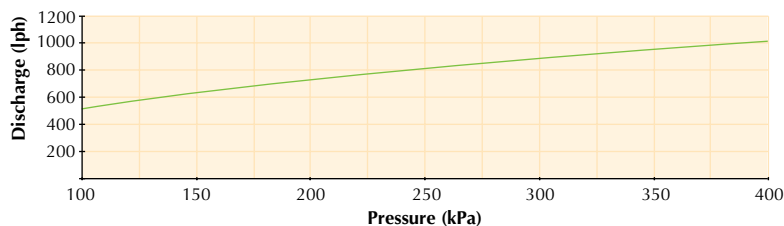
Home and landscaped gardens, and medium to large lawns.



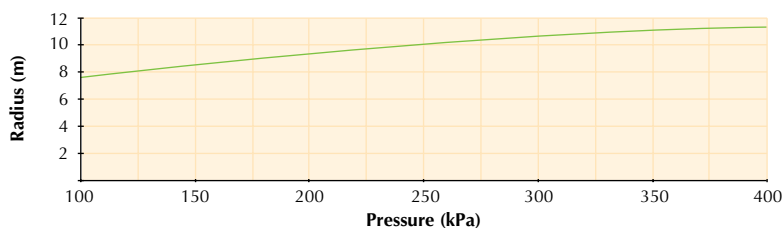
GS1 Gear Drive Sprinkler

Performance			
PRESSURE (kPa)	FLOW (lph)	RADIUS (m)	STREAM HEIGHT (m)
100	520	7.5	1.2
150	620	9.0	1.6
200	730	9.7	1.9
250	810	10.0	2.1
300	880	10.5	2.2
350	960	11.0	2.2
400	1020	11.2	2.3

### Flow Rate



### Radius of Throw



### GS1 Gear Drive Sprinkler

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
GS1 GEAR DRIVE SPRINKLER	17015	1	5	4.4

### Specifications

DIMENSIONS ASSEMBLED		BASE/CONNECTION TYPE
LENGTH	270 mm	Inlet: SNAP-ON
HEIGHT	104 mm	
WIDTH	240 mm	
WEIGHT (approx)	480 g	



Tapered “push-in” base for easy installation and maintenance. Compatible with the range of Antelco press fit fittings. Effective performance at low pressure (100 kPa).

### Features

- Press fit taper connection for fast, easy installation.
- Vari-Jet™ and Vari-Rotor Spray™ can be adjusted to change flows and coverage.
- Asta® Micro Mate™ Stake assemblies for fast and efficient installation.
- Suitable for Antelco’s range of press fit fittings.
- UV stabilised materials for long life.

### Applications

Commercial, horticultural, landscaped gardens, nursery, and greenhouse low pressure (100 kPa) irrigation systems.



PRESS FIT

## Micro Mate™ Drippers Press Fit

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
SHRUBBLER® 360°	31435	100	65	15.3
SHRUBBLER® 180°	31235	100	65	15.3
MINI BUBBLER 360°	31735	100	65	14.8

## Micro Mate™ Sprays Press Fit

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
SPECTRUM™ 360° Taper # 6	32035	50	100	14.6
MICRO SPRAY JET 360° x 18 Red Cap/Blue Base	18945	100	220	19.3
MICRO SPRAY JET 180° fan Blue Cap/Blue Base	18925	100	220	19.3
MICRO SPRAY JET 90° fan Black Cap/Blue Base	18115	100	220	19.3
MICRO SPRAY JET Strip Spray 2 x 20° Black Cap/Blue Base	18815	100	220	19.3
MICRO SPRAY JET 360° x 18 Black Cap/Green Base	18435	100	220	19.3
MICRO SPRAY JET 180° fan Black Cap/Green Base	18235	100	220	19.3
MICRO SPRAY JET 90° fan Black Cap/Green Base	18135	100	220	19.3
VARI-JET™ 360° x 18 Black Cap/Black Base	13175	50	80	12.2
VARI-JET™ 180° Black Cap/Black Base	13165	50	80	12.2
VARI-JET™ 90° Black Cap/Black Base	13155	50	80	12.2

## Micro Mate™ Sprinklers Press Fit

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
ROTOR SPRAY™ 1.0 mm Blue Base	20715	50	110	13.1
ROTOR SPRAY™ 1.3 mm Green Base	20735	50	110	13.1
INVERTED ROTOR SPRAY™ 1.0 mm Blue Base	20815	50	110	13.1
INVERTED ROTOR SPRAY™ 1.3 mm Green Base	20835	50	110	13.1
VARI-ROTOR SPRAY™ 1.5 mm Black Base	20215	25	88	10.1

## Asta® Micro Mate™ Stake Assemblies Press Fit

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
JET ASSEMBLY 360° Red Cap/Blue Base	14065	25	19	13.7
JET ASSEMBLY 180° Blue Cap/Blue Base	14055	25	19	13.7
JET ASSEMBLY 90° Black Cap/Blue Base	14045	25	19	13.7
VARI-JET™ ASSEMBLY 360° Black Cap/Black Base	14025	25	16	12.5
VARI-JET™ ASSEMBLY 180° Black Cap/Black Base	14015	25	16	12.5
VARI-JET™ ASSEMBLY 90° Black Cap/Black Base	14005	25	16	12.5
ASTA® MICRO MATE™ Stake Assembly (F) x Vertical Entry	43675	25	19	13.2



Asta® Micro Mate™ Stake Assembly

Micro Spray Jet Taper # 6



Vari-Rotor Spray™ Taper # 6

Rotor Spray™ Taper # 6

Asta® Micro Mate™ Stake Assembly (no emitter)



Micro Mate™ press fit fittings for easy installation and servicing. Offer a simple way to alter the system to meet changing plant requirements.

### Features

- Press fit taper connection for fast, easy installation.
- Suitable for Antelco's range of press fit emitters.
- UV stabilised materials for long life.

### Applications

Commercial, horticultural, landscape, nursery, home gardens and greenhouse low pressure (100 kPa) irrigation systems.



## Micro Mate™ Press Fit Fittings

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
JOINER 4.5 mm barb (taper series)	40175	100	280	13.9
JOINER Taper # 6 (M)	40185	100	240	15.1
TEE Taper # 6 (F)	40365	50	135	15.6
ELBOW Taper # 6 (F) x Taper # 6 (M)	40265	50	240	17.1
PLUG Taper # 6 (M)	42335	100	350	17.1
ADAPTOR 1/2" FNPT Thread x Taper # 6 (F)	41045	25	75	12.6
ADAPTOR 3/8" BSWM Thread x Taper # 6 (F)	41055	100	130	13.8
ADAPTOR 4.5 mm barb x Taper # 6 (M)	40975	100	240	13.2
ADAPTOR 4.5 mm barb x Taper # 6 (F)	40985	100	120	14.2
STAKE ADAPTOR Taper # 6 (F) x Horizontal Entry	41405	50	120	15.4
STAKE ADAPTOR Taper # 6 (F) x Vertical Entry	41415	50	130	16.3
TUBE ASSEMBLY 300 mm off-take tube Taper # 6 (M)	43655	25	55	10.5
TUBE ASSEMBLY 600 mm off-take tube Taper # 6 (M)	43665	25	26	8.9
ASTA™ MICRO MATE™ STAKE	43625	25	38	15.3





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

## FILTRATION

It is easier to clean a single filter than many emitters. An effective filter which protects downstream components, is an important feature of all irrigation systems.

Four types of filters are used to protect irrigation systems:

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

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

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

**Sand separators** – strictly speaking, these are not filters, but are devices that cause the water to be rotated in the body of the equipment. Centrifugal action forces heavier particles within the water to move to the outside of the stream and then fall to the base of the separator where they are collected and can be removed.

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

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

### Drip Irrigation

Although variable, the dimensions of the smallest pathways in drip emitters are unlikely to be less than 0.6mm. If organic matter is present in the water at high levels, such an emitter will require protection by a 75 micron / 200 mesh filter. If there is only inorganic matter present, a 175 micron / 80 mesh screen will be adequate.

### Jets and Sprayers

Minimum orifice size is generally not less than 0.8mm, in which case a filter with a 100 micron / 140 mesh screen will cope with an organic load in the water. A 250 micron / 60 mesh screen will be adequate if only inorganic material is present.

### Mini Sprinklers

With minimum orifice size around 1.5mm, filter screen size can vary from 175 micron / 80 mesh (organic matter present) to 500 micron / 35 mesh (only inorganic matter present).

If you are uncertain about the quality of your water supply, or the minimum orifice size of your chosen emitter, seek professional advice.



A compact valve box with 4 internal solenoid valves that connect to a 24Vac 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" BSP male threaded inlet and outlet connections.

### Applications

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



eZyvalve 4

Performance	
PRESSURE (kPa)	DISCHARGE (lpm)
50	13
100	18
150	22
200	25
250	28
300	31
350	34

### eZyvalve®4

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
eZyvalve 4 - Valve Box 4 Solenoid Valves 3/4" BSPM 24Vac	16605	1	10	10.1



Braided Hose

### 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



eZyvalve 4 with Braided hose

### Specifications

DIMENSIONS PACKAGED		CONNECTION TYPE	
LENGTH	105 mm	Inlet:	3/4" BSPM tapered
DEPTH	182 mm	Outlet:	3/4" BSPM parallel x 4
WIDTH	182 mm		
WEIGHT (approx)	1075 g		

OPERATING SPECIFICATIONS	
FLOW	1 L/min - 30 L/min
PRESSURE	20 kPa - 1250 kPa
AMBIENT TEMPERATURE	2°C - 60°C
ELECTRICAL	24Vac, inrush current 320 mA, holding current 260 mA at 50 Hz



# Pressure Regulators



Designed for low-flow micro irrigation systems. Pressure Regulators restrict the outlet pressure, optimising emitter 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.



FITTINGS



Pressure Regulator  
100 kPa

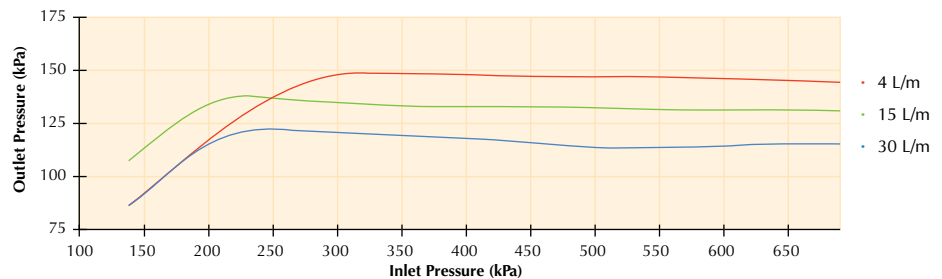


Pressure Regulator  
175 kPa

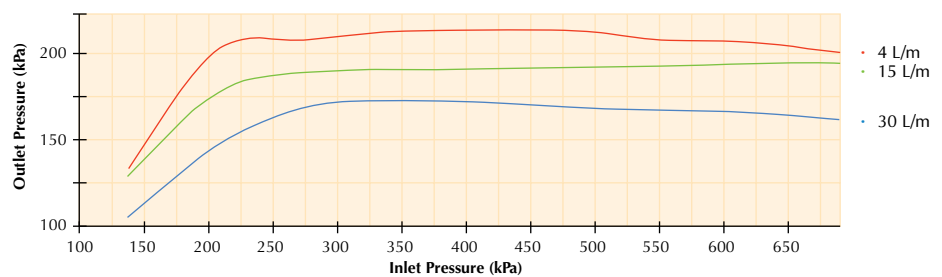
### Pressure Regulators

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

### Flow Rate: Pressure Regulator 100 kPa



### Flow Rate: Pressure Regulator 175 kPa



### Specifications

DIMENSIONS		OPERATION	CONNECTION TYPE
LENGTH	68 mm	OUTLET PRESSURE: 100 kPa or 175 kPa FLOW RANGE TOTAL: 0.4 - 30 lpm	Inlet Base: 3/4" BSPF Outlet Base: 3/4" BSPM
WIDTH	34 mm		
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 vent hole unobstructed.
- Do not use sealing compound (solvent cement). If needed, teflon tape may be used to seal for leaks.



Essential components in low pressure micro irrigation systems. Used in conjunction with standard low pressure tubing.

### Features

- Micro fittings with single barb or 'Quick' thread connection.
- Key Punch™ makes 3 mm hole in tubing. Hexagonal base to install and remove spray jets and interchange their caps.
- Pocket Punch makes 3 mm hole in 13 mm PE tubing, installs and removes emitters.
- Punch 'n' Cut makes 3 mm or 4.5 mm hole into a range of PE tubing sizes, installs and removes emitters, and cuts PE tubing.

### Applications

Home gardens, landscaping, glasshouses and hanging baskets.



### Adaptors and Joiners



Adaptor 4 mm (F) x 1/2" FNPT thread



Adaptor 4 mm (F) x 1/2" MNPT



Adaptor barb x thread



Adaptor 4 mm (F) x 3/8" BSW thread



Joiner barb x barb hypodermic



Joiner



Tee



Cross



Key Punch™



Goof Plugs (rack of 10)



Pocket Punch



Punch 'n' Cut

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" BSW 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

### Elbows, Tees & 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
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

### Goof Plugs

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
GOOF PLUGS (rack of 10)	42325	10	250	7.2

### Punches

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
KEY PUNCH™	42315	25	50	12.1
POCKET PUNCH	50048	1	160	9.4
PUNCH 'n' Cut	51098	1	110	15.9



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 thus 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.



### 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

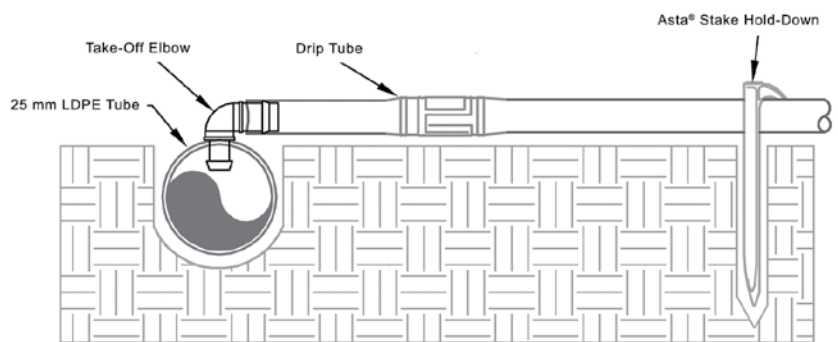
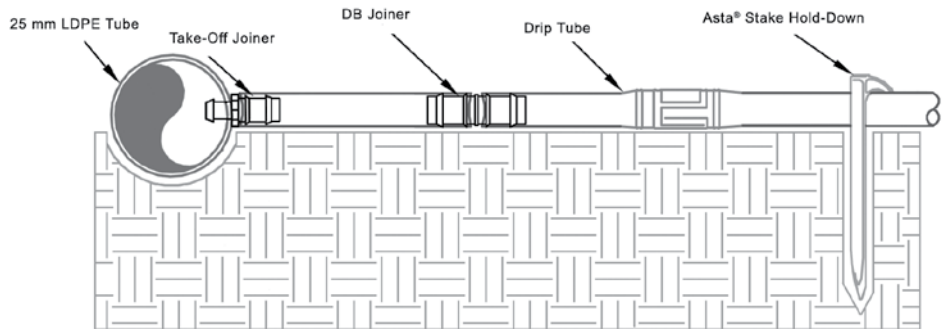


Take-Off Elbow  
10 mm x 14 mm

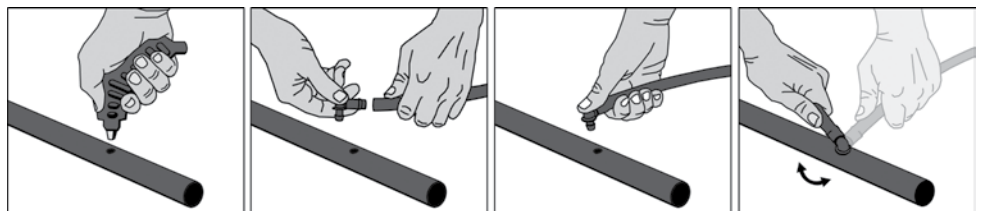


Take-Off Elbow  
8 mm x 13 mm

### 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 Adaptors are an improved method for connecting low pressure irrigation tubes and drip lines from HDPE or 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 pull-out 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.



### Xpando® Take-Off Adaptors



Xpando® Take-Off Adaptor



Capo® Rubber Grommet



Drill Bit for Xpando®

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

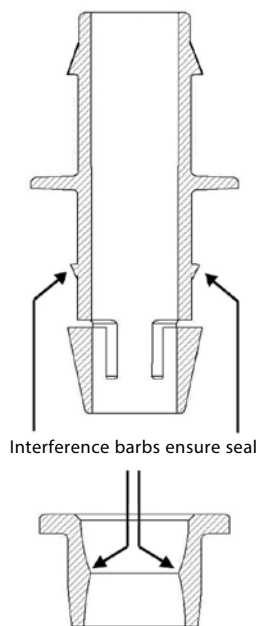
### Capo® Rubber Grommets

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
CAPO® RUBBER GROMMET 10 mm	45725	100	40	12.7
CAPO® RUBBER GROMMET 13 mm	45735	100	40	10.6
CAPO® RUBBER GROMMET 16 mm	45745	100	24	9.6
CAPO® RUBBER GROMMET 19 mm	45755	100	18	10.4







### Xpando® Drill Bits

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
14 mm DRILL BIT for 10 mm XPANDO®	51835	1	TBA	TBA
16 mm DRILL BIT for 13 mm XPANDO®	51845	1	TBA	TBA
19 mm DRILL BIT for 16 mm XPANDO®	51855	1	TBA	TBA
22 mm DRILL BIT for 19 mm XPANDO®	51865	1	TBA	TBA

### Installation Instructions



Interference barbs ensure seal

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 take-off XPANDO® 10 mm x 15 mm take-off	25 mm	1.5 mm	3.6 mm	10 mm (curved)	14 mm
XPANDO® 13 mm x 13 mm take-off XPANDO® 13 mm x 14 mm take-off XPANDO® 13 mm x 15 mm take-off	40 mm	1.5 mm	2.3 mm	13 mm	16 mm
XPANDO® 16 mm x 16 mm take-off XPANDO® 16 mm x 18 mm take-off	50 mm	1.5 mm	3.6 mm	16 mm	19 mm
XPANDO® 19 mm x 19 mm take-off XPANDO® 19 mm x 21 mm take-off XPANDO® 19 mm x 25 mm take-off	50 mm	1.5 mm	6.0 mm	19 mm	22 mm



The DB range of purpose designed quality acetal fittings provide high retention in low pressure poly 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.
- UV stabilised materials for long life.

### Applications

Low pressure micro irrigation systems.



DB Joiner



DB Reducing Joiner



DB Elbow



DB Reducing Elbow



DB Director 1/2" MNPT

### DB Joiners

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
DB JOINER 13 mm	47005	25	90	11.0
DB JOINER 14 mm	47015	25	72	10.2
DB JOINER 15 mm	46975	25	64	10.2
DB JOINER 16 mm	47025	25	56	9.5
DB JOINER 17 mm	47815	25	50	9.9
DB JOINER 18 mm	47035	25	50	9.8
DB JOINER 19 mm	46985	25	40	8.8
DB JOINER 21 mm	47045	25	34	8.6
DB JOINER 25 mm	46995	25	20	7.2

### DB Reducing Joiners

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
DB REDUCING JOINER 16 mm x 14 mm	47075	25	60	9.7
DB REDUCING JOINER 18 mm x 14 mm	47085	25	56	10.2
DB REDUCING JOINER 19 mm x 13 mm	47055	25	54	9.9
DB REDUCING JOINER 19 mm x 15 mm	47125	25	50	9.9
DB REDUCING JOINER 19 mm x 17 mm	47855	25	45	9.4
DB REDUCING JOINER 19 mm x 18 mm	47155	25	40	8.5
DB REDUCING JOINER 25 mm x 13 mm	47065	25	32	8.7
DB REDUCING JOINER 25 mm x 14 mm	47105	25	32	8.6
DB REDUCING JOINER 25 mm x 15 mm	47135	25	28	8.0
DB REDUCING JOINER 25 mm x 16 mm	47145	25	28	8.1
DB REDUCING JOINER 25 mm x 18 mm	47175	25	26	7.8
DB REDUCING JOINER 25 mm x 19 mm	47195	25	26	7.9
DB REDUCING JOINER 25 mm x 21 mm	46965	25	24	7.7

### DB Elbows

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
DB ELBOW 13 mm	47205	25	75	10.9
DB ELBOW 14 mm	47215	25	54	9.8
DB ELBOW 15 mm	47375	25	50	9.6
DB ELBOW 16 mm	47225	25	42	8.9
DB ELBOW 18 mm	47235	25	36	9.2
DB ELBOW 19 mm	47265	25	32	8.7
DB ELBOW 21 mm	47245	25	24	7.9
DB ELBOW 25 mm	47255	25	12	6.7

### DB Reducing Elbows

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
DB REDUCING ELBOW 16 mm x 14 mm	47275	25	48	9.5
DB REDUCING ELBOW 19 mm x 15 mm	47305	25	40	9.4
DB REDUCING ELBOW 19 mm x 18 mm	47325	25	34	8.9

### DB Director 1/2" MNPT

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
DB DIRECTOR 13 mm x 1/2" MNPT	48035	25	58	11.5
DB DIRECTOR 14 mm x 1/2" MNPT	48015	25	56	11.5
DB DIRECTOR 15 mm x 1/2" MNPT	48025	25	50	10.6
DB DIRECTOR 16 mm x 1/2" MNPT	48045	25	50	10.7

The DB range can be confidently installed without clamps when matched to quality low pressure poly tubing with corresponding dimensions (refer to the tubing manufacturer for confirmation of suitability or test under field conditions). Operating pressures should not exceed 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
- 15 mm - Suits nominal 15 mm I.D. and 17 mm O.D. tube
- 16 mm - Suits nominal 16 mm I.D. and 18 mm O.D. tube
- 18 mm - Suits nominal 18 mm I.D. and 20 mm O.D. tube
- 19 mm - Suits nominal 19 mm I.D. tube
- 21 mm - Suits nominal 21 mm I.D. and 23 mm O.D. tube
- 25 mm - Suits nominal 25 mm I.D. tube



### DB Tees



DB Tee

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
DB TEE 13 mm	47405	25	40	8.6
DB TEE 14 mm	47415	25	30	8.1
DB TEE 15 mm	47395	25	28	7.9
DB TEE 16 mm	47425	25	24	7.5
DB TEE 18 mm	47435	25	22	8.1
DB TEE 19 mm	47605	25	18	7.1
DB TEE 21 mm	47445	25	16	7.7
DB TEE 25 mm	47455	25	10	6.8

### DB Increasing Tees



DB Increasing Tee

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
DB INCREASING TEE 14 mm line x 16 mm branch	47475	25	26	7.6
DB INCREASING TEE 14 mm line x 19 mm branch	47485	25	26	8.2
DB INCREASING TEE 15 mm line x 19 mm branch	47505	25	26	8.6
DB INCREASING TEE 18 mm line x 19 mm branch	47525	25	26	7.6

### DB Reducing Tees



DB Reducing Tee

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
DB REDUCING TEE 13 mm line x 4 mm branch	47765	25	56	10.1
DB REDUCING TEE 14 mm line x 4 mm branch	47465	25	48	9.4
DB REDUCING TEE 19 mm line x 13 mm branch	47535	25	22	8.0
DB REDUCING TEE 19 mm line x 14 mm branch	47755	25	22	8.2
DB REDUCING TEE 25 mm line x 13 mm branch	47585	25	13	7.3
DB REDUCING TEE 25 mm line x 14 mm branch	47695	25	13	7.4

### DB End Plugs



DB End Plug

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
DB END PLUG 13 mm	47685	25	120	12.4
DB END PLUG 14 mm	47615	25	100	11.7
DB END PLUG 16 mm	47625	25	72	10.2
DB END PLUG 18 mm	47635	25	60	9.9
DB END PLUG 19 mm	47665	25	56	10.3
DB END PLUG 21 mm	47645	25	40	8.4

### Product Code Selection Guide

TUBE SIZE	JOINER	ELBOW	TEE	END PLUG	RATCHET CLAMP	GREEN BACK VALVE
13 mm I.D. tube	47005	47205	47405	47685	44305	45505
14 mm I.D. tube	47015	47215	47415	47615	44345	45575
15 mm I.D. tube	46975	47375	47395	-	44345	45555
16 mm I.D. tube	47025	47225	47425	47625	44335	45515
18 mm I.D. tube	47035	47235	47435	47635	44295	45565
19 mm I.D. tube	46985	47265	47605	47665	44315	45525
21 mm I.D. tube	47045	47245	47445	47645	44285	45535
25 mm I.D. tube	46995	47255	47455	-	44325	45545

\* Refer to tubing manufacturer for conformation of suitability or test under field conditions

\* Refer to page 5.7 & 6.2 for Ratchet Clamp & Green Back Valve info



A range of polypropylene fittings designed to control, disperse, slow and divert water through a low pressure irrigation system. Used in conjunction with low pressure poly 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 professionally installed irrigation systems.



Joiner



Reducing Joiner



Elbow



Threaded Elbow Male



Tee



Threaded Tee Male

### 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
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

### 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
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 mm 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

### 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
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
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

# Directors, Clamps, End Plugs & Saddles



Used with polyethylene tubing in low pressure irrigation systems.

## Features

- Directors adapt tubes to valves and female fittings.
- Ratchet Clamps with smooth edge require no tools for installation.
- Compatible with Australian and International tube sizes.
- Operating pressure range up to 300 kPa.
- UV stabilised materials for long life.

## Applications

Ratchet Clamps secure polyethylene tube to a wide range of fittings. End Plugs terminate irrigation supply. Saddles and Clips secure irrigation tubes.



## Directors



Director



Ratchet Clamp



End Plug



End Sleeve



Cross 13 mm



Saddle Clip



Saddle Clamp

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
DIRECTOR 13 mm x 1/2" BSPM	45255	25	45	6.5
DIRECTOR 13 mm x 3/4" BSPM	45265	25	35	6.9
DIRECTOR 13 mm x 1" BSPM	45275	25	20	6.9
DIRECTOR 19 mm x 1/2" BSPM	45285	25	40	6.8
DIRECTOR 19 mm x 3/4" BSPM	45295	25	30	6.7
DIRECTOR 19 mm x 1" BSPM	45305	25	18	6.7
DIRECTOR 25 mm x 3/4" BSPM	45325	25	23	7.0
DIRECTOR 25 mm x 1" BSPM	45315	25	15	6.2

## Ratchet Clamps

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
RATCHET CLAMP #15 (tube OD 15 mm - 16 mm)	44305	100	50	12.4
RATCHET CLAMP #17 (tube OD 16 mm - 18 mm)	44345	100	45	11.2
RATCHET CLAMP #18 (tube OD 17 mm - 19 mm)	44335	100	45	11.2
RATCHET CLAMP #20 (tube OD 19 mm - 21 mm)	44295	100	40	11.1
RATCHET CLAMP #22 (tube OD 21 mm - 23 mm)	44315	100	35	10.6
RATCHET CLAMP #23 (tube OD 22 mm - 24 mm)	44285	100	32	10.6
RATCHET CLAMP #28 (tube OD 27 mm - 30 mm)	44325	100	16	10.0

## End Plugs, End Sleeve & Cross

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 SLEEVE 13 mm	44605	25	40	5.4
CROSS 13 mm	44635	25	26	4.2

## Saddle Clips & Saddle Clamps

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 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

FITTINGS



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

### Features

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

### Applications

Home gardens and landscaping applications.



Tap Adaptor Reducing Bush



Tap Adaptor BSPF x BSPM

### 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



Snap-On Tap Adaptor

### 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



Snap-On Connector Barb



Snap-On Connector Thread 3/4"

### Snap-On Joiner

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

### 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



Washer



UV35+ 'O'-Ring™

### 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

### Blank Nuts

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
BLANK NUT 3/4" BSPF with washer	44505	25	50	10.6
BLANK NUT 1" BSPF with washer	44515	25	36	10.3



Nut and Tail



Blank Nut



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

### Features

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

### Applications

For low pressure (up to 300 kPa) micro irrigation systems.



### 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

### 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



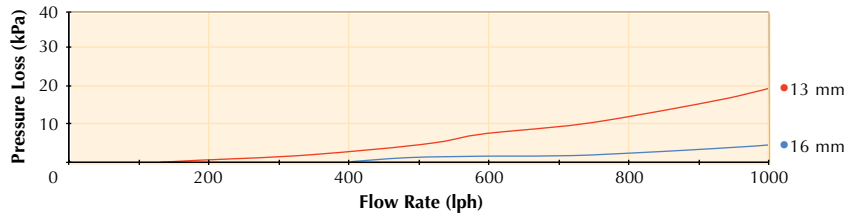
In-Line Filter

Snap-On Filter

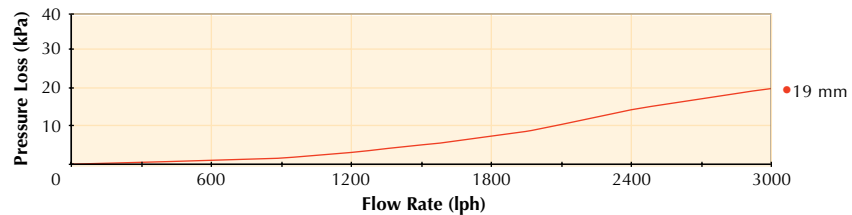


In-Line Filter screen detail

### Pressure Loss: 13 mm and 16 mm Filter



### Pressure Loss: 19 mm Filter



### 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 or 19 mm Outlet: BARB 13, 14, 16 or 19 mm
WIDTH	33 mm	40 mm	BODY Filter & NUT: polyprop.	
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 Outlet: BARB 13, 14, 16 or 19 mm
WIDTH	33 mm	40 mm	BODY Filter & SLEEVE Snap-On: polyprop.	
WEIGHT (approx)	35 g	51 g	WASHER: rubber	
			SCREEN: HDPE	



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



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.



Vari-Flow™  
thread x thread



Vari-Flow™  
barb x barb



Green Back® Valve



Purple Back® Valve

### Vari-Flow™ Valve

TYPE	COLOUR	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
VARI-FLOW™ VALVE barb x barb 4.5 mm	Black	42155	50	90	11.5
VARI-FLOW™ VALVE thread x thread 4.0 mm	Black	42115	50	90	11.5
VARI-FLOW™ VALVE thread x thread 4.0 mm	Green/Yellow	42125	50	90	11.5

### Green Back® Valve

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	8.9
GREEN BACK® VALVE 19 mm (Shank OD 19.0 mm)	45525	20	10	8.7
GREEN BACK® VALVE 21 mm (Shank OD 20.8 mm)	45535	20	10	9.3
GREEN BACK® VALVE 25 mm (Shank OD 25.0 mm)	45545	20	4	7.1

### Purple Back® Valve

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	8.9
PURPLE BACK® VALVE 19 mm (Shank OD 19.0 mm)	46525	20	10	8.7
PURPLE BACK® VALVE 21 mm (Shank OD 20.8 mm)	46535	20	10	9.3
PURPLE BACK® VALVE 25 mm (Shank OD 25.0 mm)	46545	20	4	7.1

### Specifications: Vari-Flow™ Valve

DIMENSIONS ASSEMBLED	4.5 mm	4.0 mm
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 KNOB HDPE	BODY acetal KNOB HDPE
BASE/CONNECTION TYPE	BARB 4.5 mm	10-32 UNF THREAD 4 mm

### Specifications: Green Back® Valve and Purple Back® Valve

DIMENSIONS ASSEMBLED	13 mm, 14 mm 15 mm, 16 mm	18 mm, 19 mm 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, 19mm) 50 g (21mm)	81 g
UV STABILISED MATERIALS	BODY acetal STEM HDPE COVER acetal	BODY acetal STEM polypropylene COVER acetal	BODY acetal STEM polypropylene COVER acetal
BASE/CONNECTION TYPE	BARB	BARB	BARB



Threaded flow control valves for low pressure irrigation.

### Features

- 3/4" BSP Male 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<sup>®</sup> cap for standard irrigation applications.
- Purple Back<sup>®</sup> 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.



### Threaded Green Back<sup>®</sup> Valve 1/2" MNPT



Threaded Green Back<sup>®</sup> Valve 1/2" MNPT

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
GREEN BACK <sup>®</sup> VALVE 13 mm barb x 1/2" MNPT	49005	20	22	9.8
GREEN BACK <sup>®</sup> VALVE 14 mm barb x 1/2" MNPT	49015	20	22	9.9
GREEN BACK <sup>®</sup> VALVE 15 mm barb x 1/2" MNPT	49025	20	22	9.8
GREEN BACK <sup>®</sup> VALVE 16 mm barb x 1/2" MNPT	49035	20	22	10.3

### Threaded Purple Back<sup>®</sup> Valve 1/2" MNPT



Threaded Purple Back<sup>®</sup> Valve 1/2" MNPT

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
PURPLE BACK <sup>®</sup> VALVE 13 mm barb x 1/2" MNPT	49105	20	22	9.8
PURPLE BACK <sup>®</sup> VALVE 14 mm barb x 1/2" MNPT	49115	20	22	9.9
PURPLE BACK <sup>®</sup> VALVE 15 mm barb x 1/2" MNPT	49125	20	22	9.8
PURPLE BACK <sup>®</sup> VALVE 16 mm barb x 1/2" MNPT	49135	20	22	10.3

### Threaded Green Back<sup>®</sup> Valve 3/4" BSPM



Threaded Green Back<sup>®</sup> Valve 3/4" BSPM

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
GREEN BACK <sup>®</sup> VALVE 13 mm barb x 3/4" BSPM	46605	20	22	10.4
GREEN BACK <sup>®</sup> VALVE 14 mm barb x 3/4" BSPM	46675	20	22	10.6
GREEN BACK <sup>®</sup> VALVE 15 mm barb x 3/4" BSPM	46655	20	22	10.5
GREEN BACK <sup>®</sup> VALVE 16 mm barb x 3/4" BSPM	46615	20	21	10.9
GREEN BACK <sup>®</sup> VALVE 18 mm barb x 3/4" BSPM	46685	20	8	9.0
GREEN BACK <sup>®</sup> VALVE 19 mm barb x 3/4" BSPM	46695	20	8	9.0
GREEN BACK <sup>®</sup> VALVE 21 mm barb x 3/4" BSPM	46595	20	8	9.0

### Threaded Purple Back<sup>®</sup> Valve 3/4" BSPM



Threaded Purple Back<sup>®</sup> Valve 3/4" BSPM

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
PURPLE BACK <sup>®</sup> VALVE 13 mm barb x 3/4" BSPM	46705	20	22	10.4
PURPLE BACK <sup>®</sup> VALVE 14 mm barb x 3/4" BSPM	46775	20	22	10.6
PURPLE BACK <sup>®</sup> VALVE 15 mm barb x 3/4" BSPM	46755	20	22	10.5
PURPLE BACK <sup>®</sup> VALVE 16 mm barb x 3/4" BSPM	46715	20	21	10.9
PURPLE BACK <sup>®</sup> VALVE 18 mm barb x 3/4" BSPM	46785	20	8	9.0
PURPLE BACK <sup>®</sup> VALVE 19 mm barb x 3/4" BSPM	46795	20	8	9.0
PURPLE BACK <sup>®</sup> VALVE 21 mm barb x 3/4" BSPM	46805	20	8	9.0

### Specifications: Threaded Valves 1/2" MNPT & 3/4" BSPM

DIMENSIONS ASSEMBLED	1/2" MNPT	3/4" BSPM	
		13 mm, 14 mm, 15 mm, 16 mm	18 mm, 19 mm, 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, 19mm) 54 g (21mm)
UV STABILISED MATERIALS	BODY acetal STEM HDPE COVER acetal	BODY acetal STEM HDPE COVER acetal	BODY acetal STEM polypropylene COVER acetal
BASE/CONNECTION TYPE	1/2" MNPT Thread x Barb	3/4" BSPM Thread x Barb	



## Threaded & Barbed Stakes & Adaptors

Quality fittings for accurate, secure sprinkler placement.

### Features

- Three inlet connection adaptors available for use with Jumbo Stake™ and Collar Pipe Stake™.
- Collar Pipe Stake™ for use with 26.7 mm OD PVC pipe.
- Rod Stake for use with 5 mm OD steel 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™, Stake Adaptors and Rod Stake Adaptor assemblies are all compatible with Rotor Rain™ 3/8" based sprinklers; Micro Stake and Jet Stake are suited to Micro Spray and Rotor Spray™ installations.



FITTINGS



Collar Pipe Stake™ Assembly



Stake Adaptor



Rod Stake Adaptor™



Jumbo Stake™ Assembly 320 mm

Micro Stake 320 mm



Micro Stake with 4 mm off-take tube

Jet Stake 320 mm



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

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
JUMBO STAKE™ 5 mm Adaptor	40555	170	1	6.7
JUMBO STAKE™ 10 mm Adaptor	40515	170	1	6.7
JUMBO STAKE™ 13 mm Adaptor	40535	170	1	6.8

### 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™ 5 mm Adaptor	40655	50	10	5.5
COLLAR PIPE STAKE™ 10 mm Adaptor	40615	50	10	6.0
COLLAR PIPE STAKE™ 13 mm 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 Adaptor™ 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

### Jet Stake

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
JET STAKE – accepts Rigid Riser	40845	200	1	7.2

### Micro Stakes

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
MICRO STAKE 4 mm entry	40825	200	1	5.9
MICRO STAKE with 400 mm off-take tube	40835	100	1	4.0
MICRO STAKE with 500 mm off-take tube	40784	25	4	5.4



## Asta® Stake Registered Design

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

### Features

- Asta® Stakes available in 4 height options.
- Asta® Stakes suitable for plasticised PVC and polyethylene tubing (6.9 mm OD).
- Asta® Stake Hold-Down locates and secures polyethylene tubing (up to 22 mm OD).
- Asta® Stake Assemblies suitable for most micro spray and micro sprinkler installations with 4 mm inlets.
- UV stabilised materials for long life.

### Applications

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



## 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

## Asta® Clip Stake

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
ASTA® CLIP STAKE	43595	25	100	11.5

## Asta® Stake Hold-Down

TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
ASTA® STAKE HOLD-DOWN	43615	25	25	10.0

## Asta® Stake Adaptor

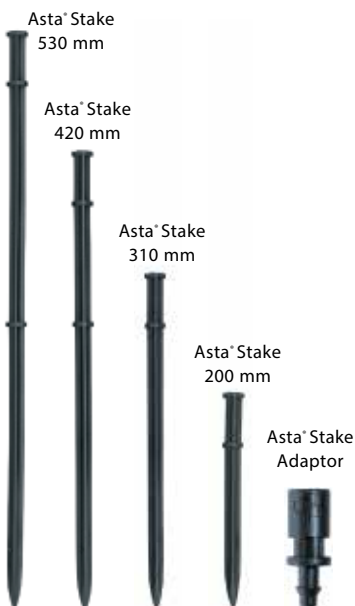
TYPE	ORDER CODE	PACK QUANTITY	PACKS PER CARTON	CARTON (kg)
ASTA® STAKE ADAPTOR 4 mm (F) x 4.5 mm barb	41005	100	120	12.4

## 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	11.0

## 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



## 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 customer's 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. If correct, the consignment note should be signed. 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 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.

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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

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# ANTELCO



PUTTING WATER WHERE IT COUNTS!®

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## Sales, Marketing, Research and Development

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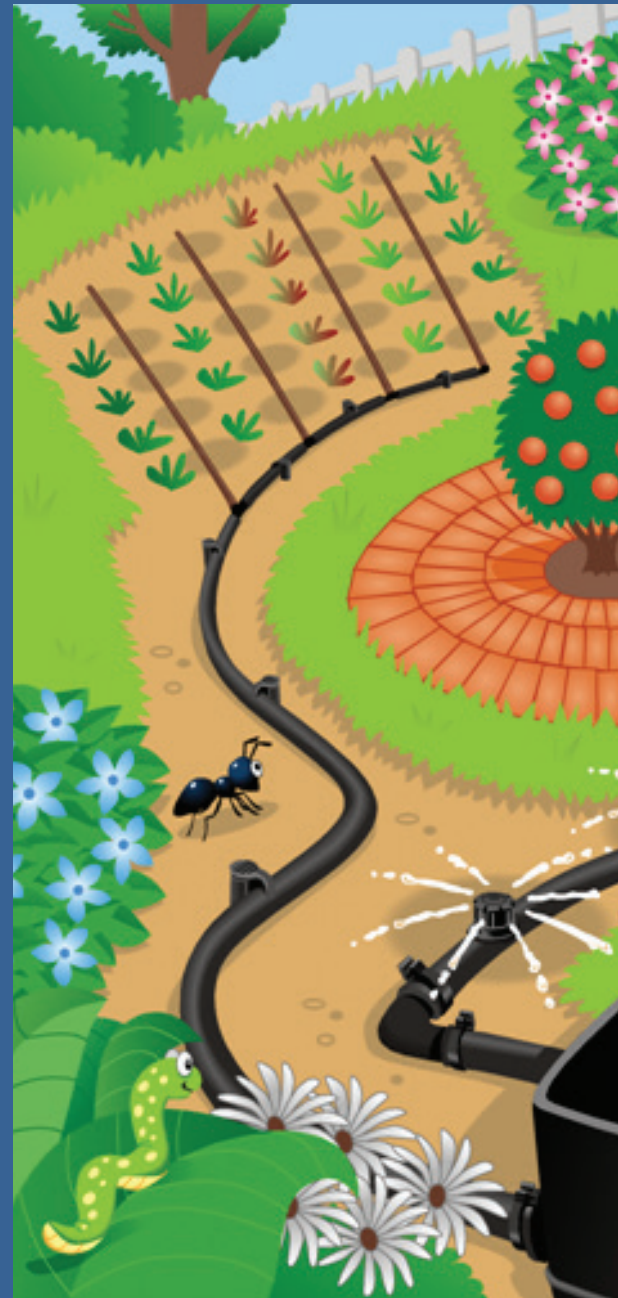
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