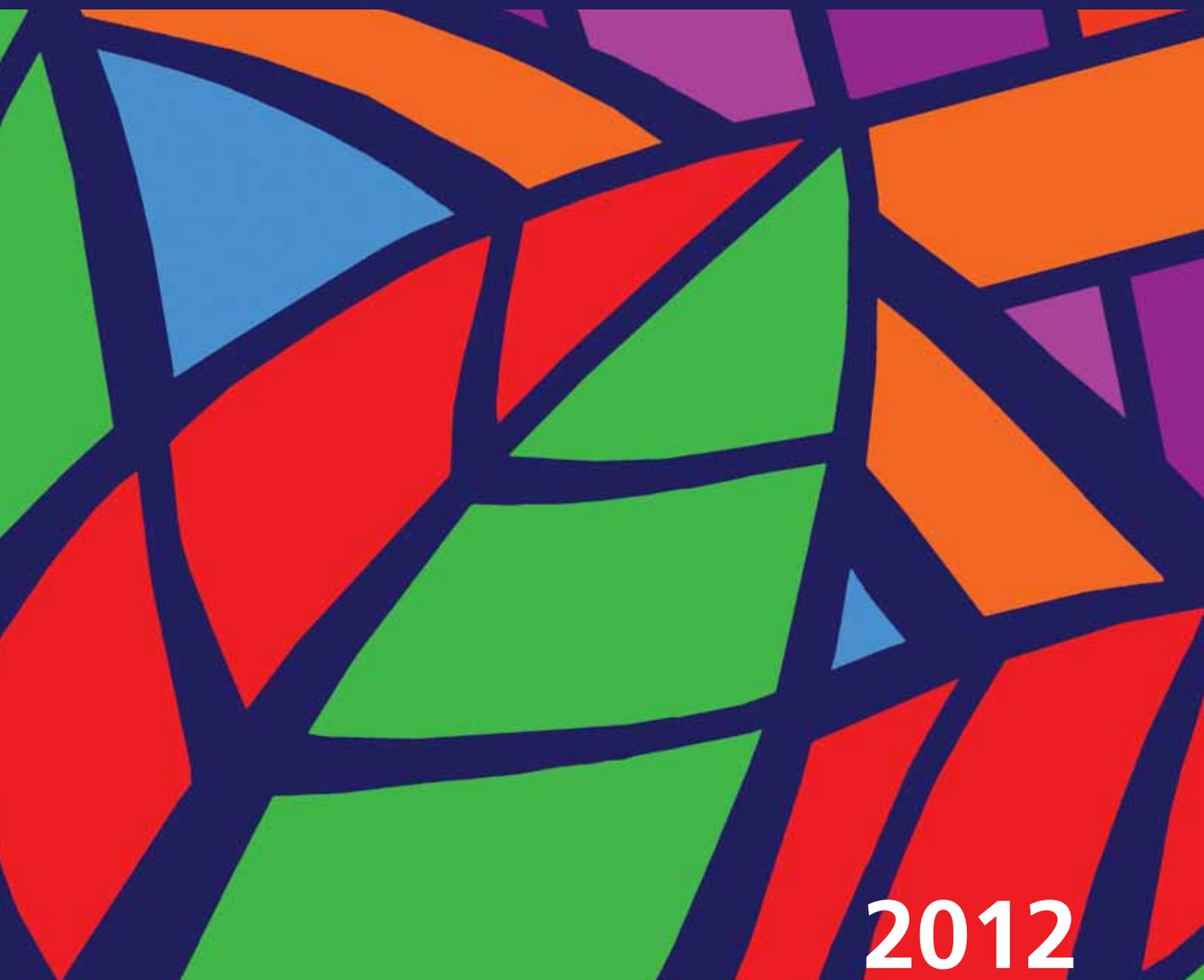


ANTELCO



PUTTING WATER WHERE IT COUNTS!®



2012

Irrigation Equipment Metric Catalogue

www.antelco.com



Irrigation Equipment: Facts To Consider



- Contract a professional irrigation designer; insist on a system to suit your plants and your soil.
- Install efficient micro-irrigation emitters wherever possible.
- Install an irrigation controller with multiple 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.

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| | |
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APPENDIX

Antelco is committed to product development and improvement so specifications may change without notice and without incurring liability. Revised product information is available on the website.

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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



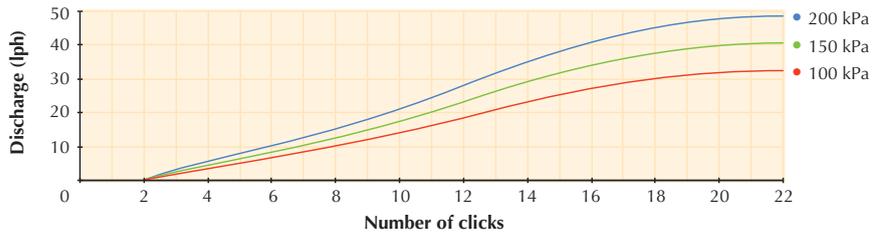
Shrubbler® In-Line Spike 4 mm



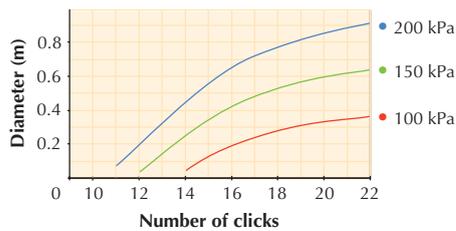
Shrubbler® Thread 1/2"

| 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 |

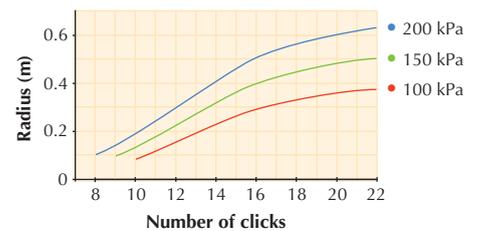
Flow Rate 360° & 180°



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



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

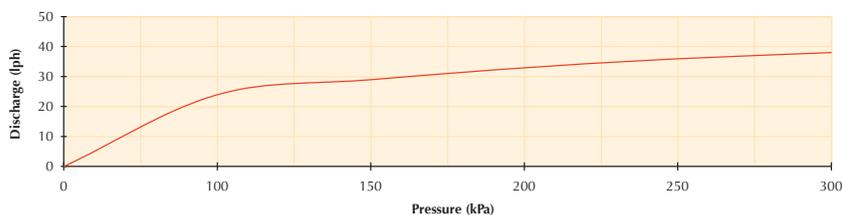
Pots, planter boxes, balcony, patio and landscape applications.



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.

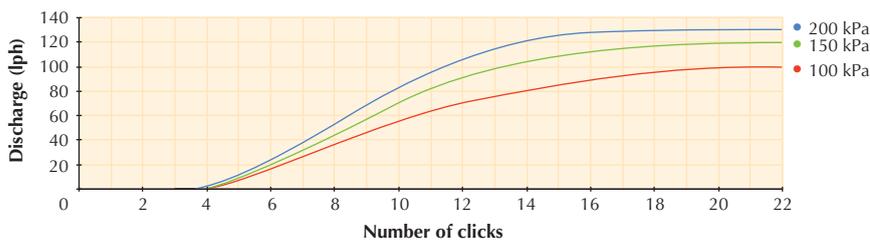
DRIPPERS

| 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 |

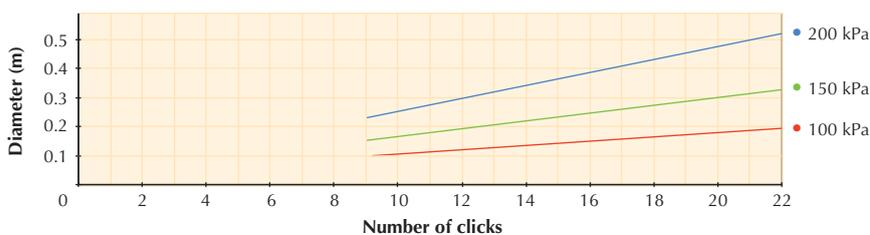


Mini Bubbler Spike 4 mm

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 |

Pinch Drip™ Pressure Compensating



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.

DRIPPERS



Pinch Drip™
PC 2 lph
Barb 4 mm

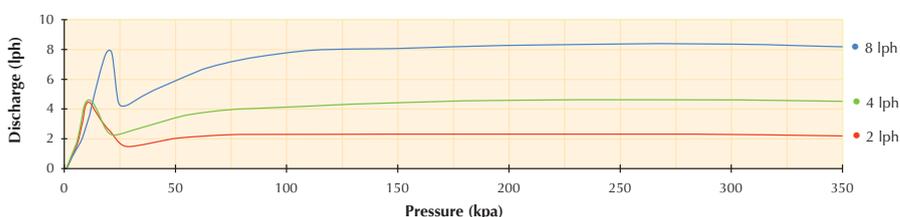
| Performance | DISCHARGE (lph) | | |
|----------------------------|-----------------|-----------|-----------|
| | 2 lph | 4 lph | 8 lph |
| PRESSURE (kPa) | | | |
| 50 | 2.0 | 3.4 | 5.9 |
| 100 | 2.3 | 4.1 | 7.8 |
| 150 | 2.3 | 4.4 | 8.1 |
| 200 | 2.3 | 4.6 | 8.3 |
| 250 | 2.3 | 4.6 | 8.4 |
| 300 |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

* C_v 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

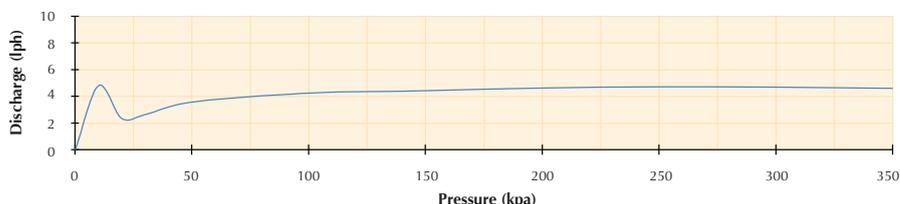
Pots, patios and landscape applications.



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 |

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 | | |



DripPets®
Retail Box



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



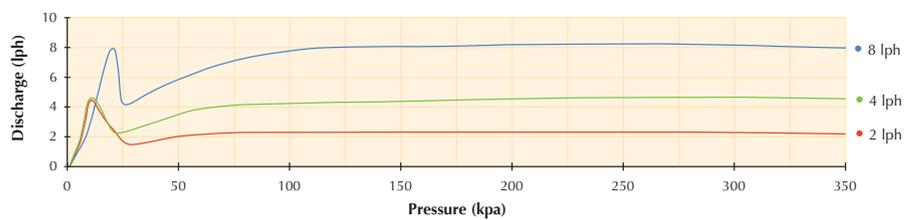
Asta® Drip
PC 8 lph
Spike 4 mm



| Performance | DISCHARGE (lph) | | |
|----------------------------|-----------------|-----------|-----------|
| | 2 lph | 4 lph | 8 lph |
| PRESSURE (kPa) | | | |
| 50 | 2.0 | 3.6 | 5.8 |
| 100 | 2.3 | 4.3 | 7.8 |
| 150 | 2.3 | 4.4 | 8.0 |
| 200 | 2.3 | 4.6 | 8.2 |
| 250 | 2.3 | 4.7 | 8.3 |
| 300 | 2.3 | 4.7 | 8.2 |
| 350 | 2.2 | 4.6 | 8.0 |
| MINIMUM CROSS SECTION (mm) | 0.7 x 0.6 | 0.8 x 0.8 | 1.2 x 0.9 |

* C_v 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

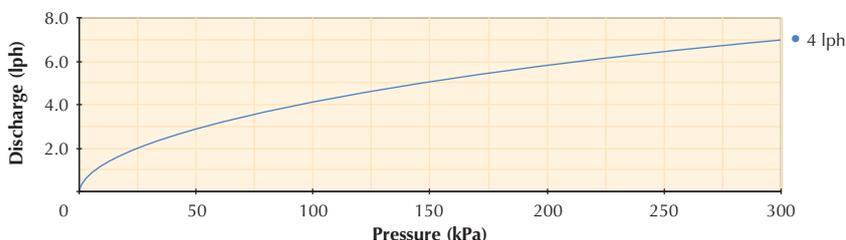


Midi Drip™ Barb 4 mm

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

* C_v 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 PRESSURE (kPa) | DISCHARGE (lph) | | |
|-----------------------------------|-----------------|-----------|-----------|
| | 2 lph | 4 lph | 8 lph |
| 50 | 1.9 | 3.3 | 6.2 |
| 100 | 2.0 | 3.8 | 7.9 |
| 150 | 2.2 | 4.2 | 7.9 |
| 200 | 2.3 | 4.4 | 8.1 |
| 250 | 2.3 | 4.4 | 8.1 |
| 300 | 2.3 | 4.4 | 8.0 |
| 350 | 2.2 | 4.3 | 7.8 |
| MINIMUM CROSS SECTION (mm) | 0.7 x 0.6 | 0.8 x 0.8 | 1.2 x 0.9 |

* C_v 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 | silicone rubber | silicone rubber | silicone rubber |
| | ADAPTOR | | acetal | |
| 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 4mm
Outlet

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

CETA®
PC 8 lph
Barb 4 mm
3 mm or 4mm
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

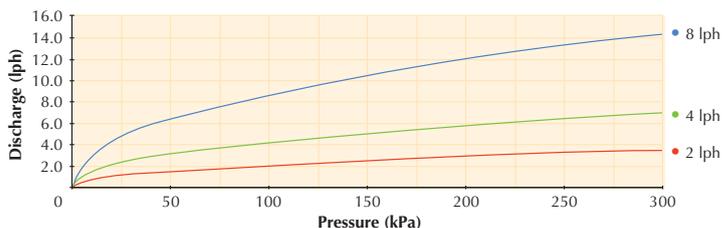


Agri Drip™ Pressure
Compensating Emitter

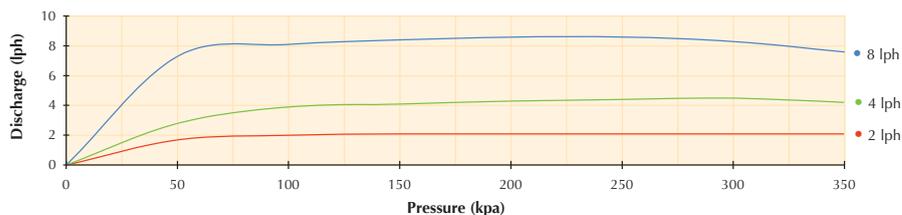
| Performance PRESSURE (kPa) | STANDARD DISCHARGE (lph) | | | PRESSURE (kPa) | COMPENSATING DISCHARGE (lph) | | |
|-----------------------------------|-----------------------------|---------|---------|-------------------|---------------------------------|---------|---------|
| | 2 lph | 4 lph | 8 lph | | 2 lph | 4 lph | 8 lph |
| 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_v for all Agri Drip™ emitters conforms to ISO 9261

Discharge Rate: Standard Drip Emitters



Discharge Rate: Pressure Compensating Drip Emitters



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



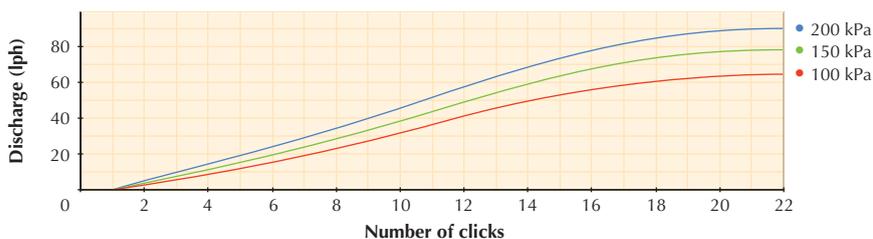
Spectrum™ Barb 4 mm

Spectrum™ Thread 4 mm

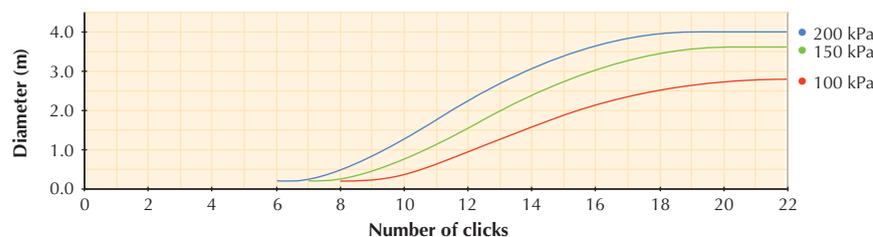


Spectrum™ Thread 1/2"

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



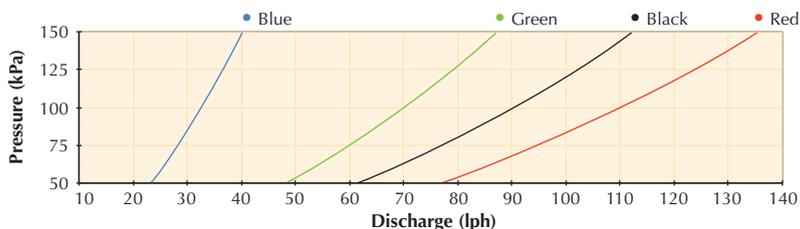
Single Piece Jets 360°

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 | MINIMUM ORDER | STANDARD CARTON | CARTON (kg) |
|-------------|-------------------|---------------|-----------------|-------------|
| FRAME JETS™ | Refer to page 2.4 | 1000 | 6000 | 12.7 |
| DEFLECTOR | 12998 | 100 | 6000 | 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 and Order Codes



| PERFORMANCE | | 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) High | Diameter (m) Low | Order Code | Diameter (m) | Order Code | Diameter (m) |
| Black 0.8 mm | 50 | 16 | 12108 | 3.0 | 2.3 | 3.6 | 12308 | 3.7 | 12508 | 2.3 | 12608 | 2.9 | 3.0 | 12708 | 2.8 | 3.2 | 3.2 | |
| | 100 | 23 | | 3.5 | 3.0 | 5.0 | | 5.2 | | 3.0 | | 3.7 | 3.8 | | 3.9 | 1.4 | 4.4 | |
| | 150 | 29 | | 4.5 | 3.8 | 6.0 | | 6.1 | | 3.2 | | 4.2 | 4.4 | | 4.4 | 1.5 | 5.1 | |
| | 200 | 33 | | 5.2 | 4.3 | 6.5 | | 6.4 | | 3.4 | | 4.8 | 5.1 | | 5.1 | 2.0 | 5.5 | |
| | 250 | 37 | | 5.9 | 4.6 | 7.2 | | 6.7 | | 3.8 | | 5.0 | 5.8 | | 5.8 | 2.0 | 6.1 | |
| | Orange 0.85 mm | 50 | 18 | 12178 | 3.6 | 2.8 | 4.1 | 12378 | 3.9 | 12578 | 2.6 | 12678 | 3.2 | 3.4 | 12778 | 3.1 | 3.0 | 3.4 |
| | | 100 | 26 | | 4.7 | 3.9 | 5.4 | | 5.3 | | 3.4 | | 4.3 | 4.3 | | 4.3 | 2.6 | 4.5 |
| | | 150 | 32 | | 5.6 | 4.5 | 6.0 | | 5.9 | | 3.8 | | 5.0 | 5.1 | | 5.1 | 3.0 | 5.4 |
| | | 200 | 37 | | 5.9 | 5.0 | 6.8 | | 6.5 | | 4.3 | | 5.5 | 5.5 | | 5.5 | 3.4 | 6.1 |
| | Brown 0.9 mm | 50 | 21 | | 3.2 | 2.6 | 4.2 | | 4.2 | | 2.6 | | 3.0 | 3.0 | | 3.2 | 1.8 | 3.6 |
| | | 100 | 30 | 12128 | 4.6 | 3.6 | 6.1 | 12328 | 4.9 | 12528 | 3.5 | 12628 | 3.9 | 3.9 | 12728 | 4.2 | 2.4 | 4.6 |
| | | 150 | 37 | | 5.6 | 4.4 | 6.8 | | 5.6 | | 3.8 | | 4.4 | 4.4 | | 4.9 | 2.7 | 5.4 |
| 200 | | 43 | | 6.1 | 5.0 | 7.4 | | 6.1 | | 4.2 | | 4.9 | 6.0 | | 6.0 | 2.9 | 6.1 | |
| Blue 1.0 mm | 50 | 26 | 12118 | 4.0 | 3.0 | 4.4 | 12318 | 4.3 | 12518 | 3.1 | 12618 | 3.8 | 3.8 | 12718 | 3.5 | 2.3 | 3.9 | |
| | 100 | 37 | | 5.4 | 4.7 | 6.0 | | 6.0 | | 3.8 | | 4.8 | 4.8 | | 4.8 | 2.8 | 5.5 | |
| | 150 | 46 | | 5.7 | 4.7 | 6.7 | | 6.8 | | 4.4 | | 5.7 | 5.5 | | 5.5 | 3.2 | 6.1 | |
| | 200 | 54 | | 7.9 | 6.7 | 8.3 | | 7.5 | | 5.0 | | 6.1 | 6.3 | | 6.3 | 3.5 | 6.8 | |
| Purple 1.1 mm | 50 | 31 | 12168 | 4.4 | 3.4 | 5.3 | 12368 | 4.7 | 12568 | 3.5 | 12668 | 3.9 | 3.9 | 12768 | 3.4 | 2.2 | 4.8 | |
| | 100 | 45 | | 6.5 | 4.7 | 7.1 | | 6.5 | | 5.0 | | 5.4 | 4.4 | | 4.7 | 2.7 | 6.4 | |
| | 150 | 55 | | 7.3 | 5.4 | 7.9 | | 7.5 | | 5.0 | | 6.5 | 5.5 | | 5.5 | 3.5 | 7.4 | |
| | 200 | 65 | | 8.0 | 6.1 | 9.2 | | 8.6 | | 5.7 | | 6.9 | 6.4 | | 6.4 | 3.8 | 8.4 | |
| Grey 1.23 mm | 50 | 37 | 12148 | 5.2 | 4.1 | 5.5 | 12348 | 5.4 | 12548 | 3.7 | 12648 | 4.8 | 4.8 | 12748 | 4.2 | 2.5 | 5.0 | |
| | 100 | 53 | | 7.3 | 5.9 | 7.6 | | 7.4 | | 5.1 | | 6.4 | 5.6 | | 5.6 | 3.7 | 6.8 | |
| | 150 | 65 | | 8.6 | 6.8 | 8.6 | | 8.3 | | 5.6 | | 7.4 | 6.5 | | 6.5 | 4.2 | 8.4 | |
| | 200 | 76 | | 9.4 | 7.7 | 9.5 | | 9.4 | | 6.4 | | 8.2 | 7.3 | | 7.3 | 4.7 | 9.1 | |
| Green 1.3 mm | 50 | 42 | 12138 | 4.9 | 3.8 | 5.4 | 12338 | 5.2 | 12538 | 3.8 | 12638 | 4.5 | 4.5 | 12738 | 3.9 | 3.1 | 5.2 | |
| | 100 | 61 | | 6.5 | 5.3 | 7.1 | | 7.2 | | 5.0 | | 6.1 | 5.0 | | 5.0 | 4.1 | 7.2 | |
| | 150 | 75 | | 7.4 | 6.4 | 8.6 | | 8.2 | | 5.9 | | 7.0 | 6.1 | | 6.1 | 4.8 | 8.5 | |
| | 200 | 87 | | 8.2 | 7.0 | 9.1 | | 8.9 | | 6.6 | | 7.6 | 6.7 | | 6.7 | 5.3 | 9.3 | |
| Red 1.55 mm | 50 | 57 | 12158 | 5.5 | 4.3 | 6.4 | 12358 | 6.4 | 12558 | 4.3 | 12658 | 5.0 | 5.0 | 12758 | 4.2 | 3.7 | 6.0 | |
| | 100 | 84 | | 7.8 | 6.0 | 8.6 | | 7.8 | | 5.7 | | 7.2 | 6.1 | | 6.1 | 4.9 | 8.2 | |
| | 150 | 103 | | 9.6 | 6.9 | 10.0 | | 8.9 | | 6.6 | | 8.7 | 7.1 | | 7.1 | 5.9 | 9.7 | |
| | 200 | 120 | | 11.4 | 8.2 | 11.2 | | 9.8 | | 7.6 | | 9.5 | 8.1 | | 8.1 | 6.5 | 10.9 | |
| 250 | 136 | | 12.4 | 9.3 | 12.3 | | 11.0 | | 8.2 | | 10.0 | 9.1 | | 9.1 | 7.2 | 12.0 | | |



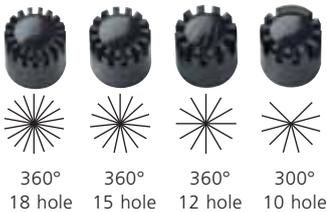
A large combination of flow rates and spray patterns is achievable when the range of caps and bases is assembled into two piece jets.

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.



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 |

Winged Jet Base with 'Quick' Thread



Hexagon Jet Base 10-32 UNF Thread



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.

SPRAYS



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.



Vari-Jet™
180° fan
10-32 UNF Thread

| Cap Colour Options | | | BLACK | BLACK | BLACK | BLACK |
|------------------------------------|----------------|------------|--------------|---------|------------|---------|
| | | | RED | | BLUE | |
| Performance | | | | | | |
| *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 | Yellow 10-32 UNF | Red | 13245 | 50 | 80 | 11.3 |
| 180° fan | Yellow 10-32 UNF | Blue | 13225 | 50 | 80 | 11.3 |
| 90° fan | Yellow 10-32 UNF | Black | 13215 | 50 | 80 | 11.3 |
| Mist | Yellow 10-32 UNF | Black | 13295 | 50 | 80 | 11.7 |
| 360° x 18 hole | Black 10-32 UNF | Black | 13145 | 50 | 80 | 11.3 |
| 180° fan | Black 10-32 UNF | Black | 13125 | 50 | 80 | 11.3 |
| 90° fan | Black 10-32 UNF | Black | 13115 | 50 | 80 | 11.3 |
| Mist | Black 10-32 UNF | Black | 13195 | 50 | 80 | 11.7 |

Specifications

| DIMENSIONS ASSEMBLED | | UV STABILISED MATERIAL | BASE/CONNECTION TYPE |
|--|-------|------------------------|--------------------------------------|
| HEIGHT | 32 mm | CAP acetal | Inlet: 10-32 UNF THREAD 4 mm |
| WIDTH | 22 mm | BASE acetal | 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



Vari-Jet™ Spike
180° fan



Asta® Stake Winged™
Micro Spray
Assembly

Asta® Stake Vari-Jet™
Assembly

| Performance | | | 360° x 18 | 180° | 90° |
|--------------------------------------|----------------|------------|--------------|------------|---------|
| 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

| 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 |



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

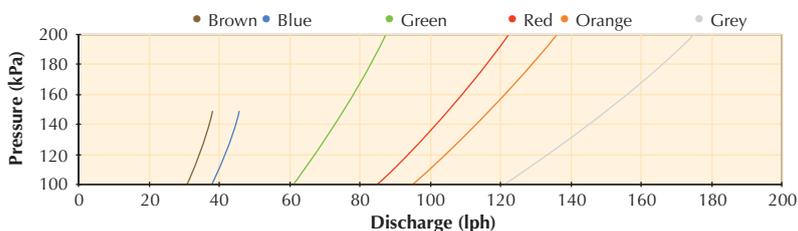


Inverted Rotor Spray™
10-32 UNF Thread



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® Stake Rotor Spray™ Assembly

Asta® 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.

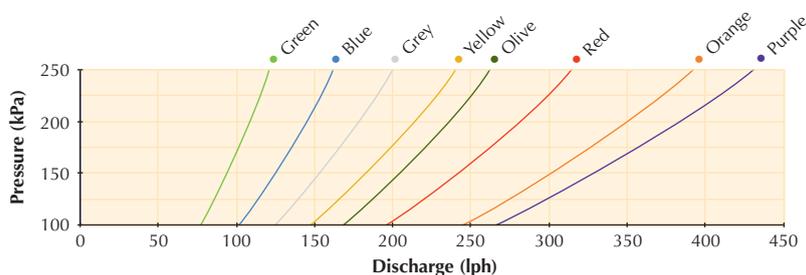
Features

- '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™

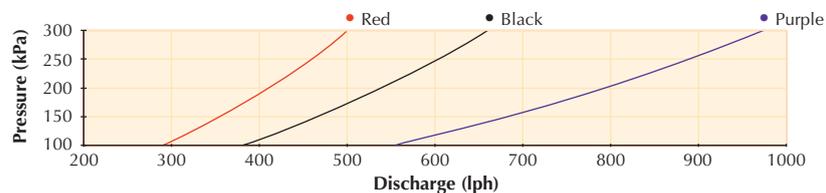


This product has been independently tested by the Australian Irrigation Technology Centre, report No A95033.

| 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 | |



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

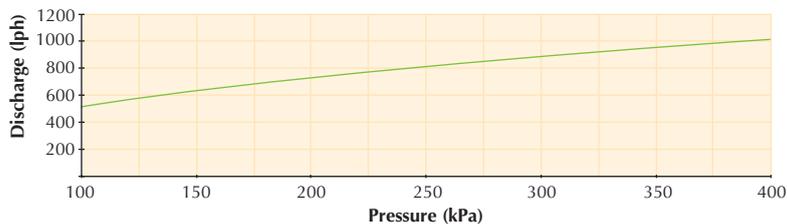
Home and landscaped gardens, and medium to large lawns.



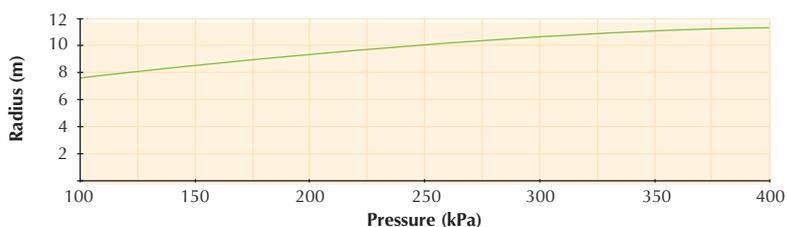
GS1 Gear Drive Sprinkler

| 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 | 5 | 1 | 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 tapered 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 tapered fittings.
- UV stabilised materials for long life.

Applications

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

Micro Mate™ Drippers Taper #6

| 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 Taper #6

| 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 Taper #6

| 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 Taper #6

| 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 |



Micro Mate™ Tapered Fittings



Micro Mate™ tapered 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 tapered emitters.
- UV stabilised materials for long life.

Applications

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

Micro Mate™ 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" NPTF 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 |



TAPERED



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.



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" BSWM thread



Adaptor 'Quick' thread



Joiner barb x barb hypodermic



Joiner



Tee



Cross



Elbow



Goof Plugs (rack of 10)



Key Punch™



Pocket Punch



Punch 'n' Cut

Adaptors and Joiners

| TYPE | ORDER CODE | PACK QUANTITY | PACKS PER CARTON | CARTON (kg) |
|--|------------|---------------|------------------|-------------|
| ADAPTOR 4.0 mm (F) x 1/2" FNPT thread | 41015 | 25 | 80 | 7.6 |
| ADAPTOR 4.0 mm (F) x 1/2" MNPT thread | 41075 | 25 | TBA | TBA |
| ADAPTOR 4.0 mm (F) x 3/8" BSWM thread | 41025 | 100 | 130 | 10.6 |
| ADAPTOR 4.0 mm 'Quick' thread x thread | 40925 | 100 | 260 | 14.4 |
| ADAPTOR 4.0 mm barb x thread | 40945 | 100 | 280 | 15.6 |
| ADAPTOR 4.5 mm barb x thread | 40995 | 100 | 250 | 15.3 |
| JOINER 4.0 mm barb | 40145 | 100 | 245 | 14.0 |
| JOINER 4.5 mm barb | 40195 | 100 | 240 | 17.0 |
| JOINER 4.0 mm barb x barb hypodermic | 40935 | 100 | 245 | 14.0 |

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 | TBA | TBA | TBA |
| PUNCH 'n' Cut | 51098 | TBA | TBA | TBA |

Take-Off Fittings



Antelco Take-Off Fittings are an improved method of connecting low pressure irrigation tubes and driplines to polyethylene tubes and PVC mainlines.

Features

- Easy to install, reducing both time and cost of installation.
- Innovative Xpando® (Registered Design) Take-Off Adaptor with collapsible barb prevents pull-out and reduces grommet damage during the installation process.
- Capo® Top Hat 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 Adaptor



Capo® Rubber Grommet



Take-Off Joiner



Take-Off Elbow
10 mm x 13 mm



Take-Off Elbow
8 mm x 13 mm

Xpando® Take-Off Adaptors

| TYPE | ORDER CODE | PACK QUANTITY | PACKS PER CARTON | CARTON (kg) |
|--------------------------------------|------------|---------------|------------------|-------------|
| 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 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 |

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 ELBOW 10 mm x 13 mm | 46415 | 25 | 90 | 12.1 |
| TAKE-OFF ELBOW 8 mm x 13 mm | 46425 | 25 | 100 | 12.4 |

Installation Instructions - Xpando® Take-Off Fittings

| TYPE | GROMMET SIZE | HOLE SAW SIZE | MINIMUM PVC ID SIZE | POLYETHYLENE TUBE ID SIZE |
|--------------------------------------|--------------|---------------|---------------------|---------------------------|
| XPANDO® 13 mm inlet x 13 mm take-off | 13 mm | 16 mm | 40 mm | 13 mm |
| XPANDO® 13 mm inlet x 14 mm take-off | 13 mm | 16 mm | 40 mm | 14 mm |
| XPANDO® 13 mm inlet x 15 mm take-off | 13 mm | 16 mm | 40 mm | 15 mm |
| XPANDO® 16 mm inlet x 16 mm take-off | 16 mm | 19 mm | 50 mm | 16 mm |
| XPANDO® 16 mm inlet x 18 mm take-off | 16 mm | 19 mm | 50 mm | 18 mm |
| XPANDO® 19 mm inlet x 19 mm take-off | 19 mm | 22 mm | 50 mm | 19 mm |
| XPANDO® 19 mm inlet x 21 mm take-off | 19 mm | 22 mm | 50 mm | 21 mm |
| XPANDO® 19 mm inlet x 25 mm take-off | 19 mm | 22 mm | 50 mm | 25 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 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 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 Joiner

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 | TBA | TBA |
| DB REDUCING JOINER 19 mm x 15 mm | 47125 | 25 | 50 | 9.9 |
| 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 Elbow

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 Elbow

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

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 | TBA | TBA |
| 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 | TBA | TBA |

DB Fittings



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 | 48 | 10.3 |
| 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 | TBA | TBA |
| 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 | TBA | TBA |
| DB REDUCING TEE 19 mm line x 14 mm branch | 47755 | 25 | TBA | TBA |
| DB REDUCING TEE 25 mm line x 13 mm branch | 47585 | 25 | TBA | TBA |
| DB REDUCING TEE 25 mm line x 14 mm branch | 47695 | 25 | TBA | TBA |

DB End Plugs



DB End Plug

| TYPE | ORDER CODE | PACK QUANTITY | PACKS PER CARTON | CARTON (kg) |
|-------------------|------------|---------------|------------------|-------------|
| 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 | - | 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 5.5 & 5.8 for Ratchet Clamp & Green Back® Valve info

Joiners, Elbows & Tees



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



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



Snap-On
Tap Adaptor



Snap-On
Connector Barb



Snap-On
Connector
Thread 3/4"



Snap-On Joiner



Washer



UV35+
'O'-Ring™



Nut and Tail



Blank Nut

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 |

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 Joiner

| TYPE | ORDER CODE | PACK QUANTITY | PACKS PER CARTON | CARTON (kg) |
|-----------------------------|------------|---------------|------------------|-------------|
| SNAP-ON JOINER x 13 mm barb | 45455 | 25 | 100 | 8.9 |

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 |

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 | 32 | 9.5 |
| NUT AND TAIL with Washer 3/4" BSPF x 14 mm | 44065 | 25 | 32 | 9.5 |
| 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 |



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 |



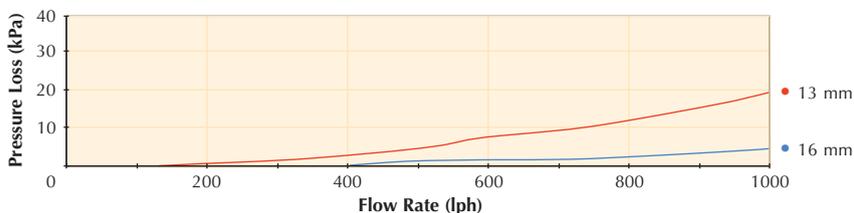
In-Line Filter

Snap-On Filter

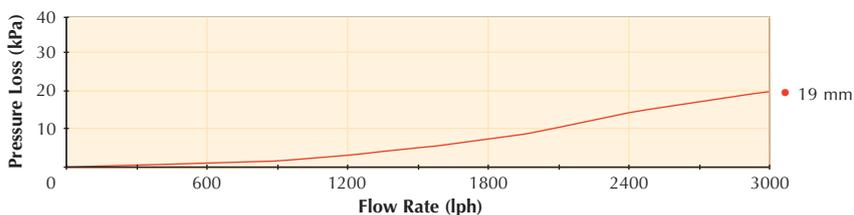


In-Line Filter screen detail

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 20 mm (Shank OD 20.5 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 20 mm (Shank OD 20.5 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 20 mm | 25 mm |
|-------------------------|--|--|---|
| HEIGHT | 40 mm | 54 mm | 71 mm |
| LENGTH | 81 mm | 100 mm | 124 mm |
| WIDTH | 28 mm | 40 mm | 53 mm |
| WEIGHT (approx) | 18 g | 41 g | 81 g |
| UV STABILISED MATERIALS | BODY acetal STEM HDPE COVER acetal | BODY acetal STEM HDPE 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® cap for standard irrigation applications.
- Purple Back® cap for recycled water applications.
- UV stabilised materials for long life.

Applications

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

Threaded Green Back® Valve 1/2" MNPT



Threaded Green Back® Valve 1/2" MNPT

| TYPE | PART NUMBER | PACK QUANTITY | PACKS PER CARTON | CARTON (kg) |
|--|-------------|---------------|------------------|-------------|
| GREEN BACK® VALVE 13 mm barb x 1/2" MNPT | 49005 | 20 | 22 | 9.8 |
| GREEN BACK® VALVE 14 mm barb x 1/2" MNPT | 49015 | 20 | 22 | 9.9 |
| GREEN BACK® VALVE 15 mm barb x 1/2" MNPT | 49025 | 20 | 22 | 9.8 |
| GREEN BACK® VALVE 16 mm barb x 1/2" MNPT | 49035 | 20 | 22 | 10.3 |

Threaded Purple Back® Valve 1/2" MNPT



Threaded Purple Back® Valve 1/2" MNPT

| TYPE | PART NUMBER | PACK QUANTITY | PACKS PER CARTON | CARTON (kg) |
|---|-------------|---------------|------------------|-------------|
| PURPLE BACK® VALVE 13 mm barb x 1/2" MNPT | 49105 | 20 | 22 | 9.8 |
| PURPLE BACK® VALVE 14 mm barb x 1/2" MNPT | 49115 | 20 | 22 | 9.9 |
| PURPLE BACK® VALVE 15 mm barb x 1/2" MNPT | 49125 | 20 | 22 | 9.8 |
| PURPLE BACK® VALVE 16 mm barb x 1/2" MNPT | 49135 | 20 | 22 | 10.3 |

Threaded Green Back® Valve 3/4" BSPM



Threaded Green Back® Valve 3/4" BSPM

| TYPE | ORDER CODE | PACK QUANTITY | PACKS PER CARTON | CARTON (kg) |
|--|------------|---------------|------------------|-------------|
| GREEN BACK® VALVE 13 mm barb x 3/4" BSPM | 46605 | 20 | 22 | 10.4 |
| GREEN BACK® VALVE 14 mm barb x 3/4" BSPM | 46675 | 20 | 22 | 10.6 |
| GREEN BACK® VALVE 15 mm barb x 3/4" BSPM | 46655 | 20 | 22 | 10.5 |
| GREEN BACK® VALVE 16 mm barb x 3/4" BSPM | 46615 | 20 | 21 | 10.9 |

Threaded Purple Back® Valve 3/4" BSPM



Threaded Purple Back® Valve 3/4" BSPM

| TYPE | ORDER CODE | PACK QUANTITY | PACKS PER CARTON | CARTON (kg) |
|---|------------|---------------|------------------|-------------|
| PURPLE BACK® VALVE 13 mm barb x 3/4" BSPM | 46705 | 20 | 22 | 10.4 |
| PURPLE BACK® VALVE 14 mm barb x 3/4" BSPM | 46775 | 20 | 22 | 10.6 |
| PURPLE BACK® VALVE 15 mm barb x 3/4" BSPM | 46755 | 20 | 22 | 10.5 |
| PURPLE BACK® VALVE 16 mm barb x 3/4" BSPM | 46715 | 20 | 21 | 10.9 |

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

| DIMENSIONS ASSEMBLED | 1/2" MNPT | 3/4" BSPM |
|-------------------------|--|--|
| HEIGHT | 41 mm | 44 mm |
| LENGTH | 81 mm | 81 mm |
| WIDTH | 28 mm | 28 mm |
| WEIGHT (APPROX) | 21 g | 22 g |
| UV STABILISED MATERIALS | BODY acetal STEM HDPE COVER acetal | BODY acetal STEM HDPE 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

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 |



Collar Pipe Stake™ Assembly

Stake Adaptor

Rod Stake Adaptor™

Jumbo Stake™ Assembly 320 mm



Micro Stake 320 mm

Jet Stake 320 mm

Micro Stake with 4 mm off-take tube



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 | 9.6 |
| 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.

Shortages or Damaged Goods

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

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Risk and Title

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

Limit of Liability

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

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ANTELCO



PUTTING WATER WHERE IT COUNTS!®

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