

ANTELCO



PUTTING WATER WHERE IT COUNTS!®

2012

Irrigation Equipment USA Catalog

www.antelco.com



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ACCESSORIES



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 0.16" 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 0.16" with adapter

Shrubbler® Barb 0.16"



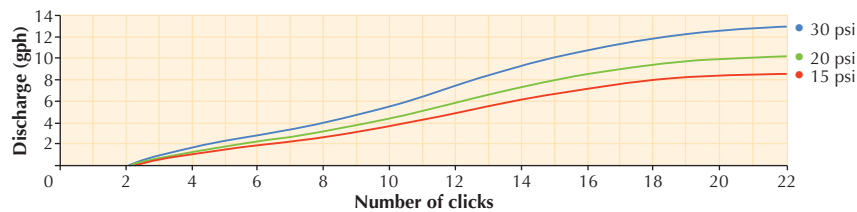
Shrubbler® Thread 10-32 UNF

Shrubbler® Thread 1/2"

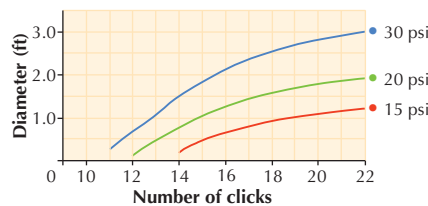
Shrubbler® In-Line Spike 0.16"

Performance			360°	180°
	PRESSURE (psi)	FLOW (gph)	DIAMETER (ft)	RADIUS (ft)
fully open (approx. 22 clicks)	15	8.7	1.2	1.2
	20	10.3	1.9	1.5
	30	13.0	3.0	2.0

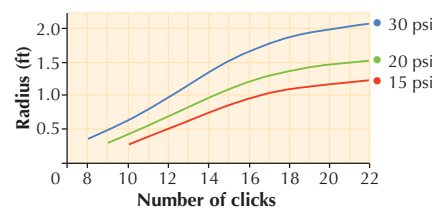
Flow Rate 360° & 180°



Diameter of Throw 360°



Radius of Throw 180°



Shrubbler® 360°

BASE TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
Barb 0.16"	31445	100	50	20.6
Thread 10-32 UNF	31415	100	50	24.6
Thread 1/2" FNPT	31425	25	50	13.8
Spike	31495	25	40	14.4
In-Line Spike	30995	25	40	14.3

Shrubbler® 180°

BASE TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
Barb 0.16"	31245	100	50	20.6
Thread 10-32 UNF	31215	100	50	24.6
Thread 1/2" FNPT	31225	25	50	13.8
Spike	31295	25	40	14.4

* For product specifications see page 1.2

Shrubbler® 360° Pressure Compensating



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

Features


- Patented design.
- Pressure Compensating maintains diameter of throw over a wide range of inlet pressures.
- Take-apart for easy inspection and cleaning.
- Colored cap for easy identification.
- UV stabilized materials for long life.

Applications

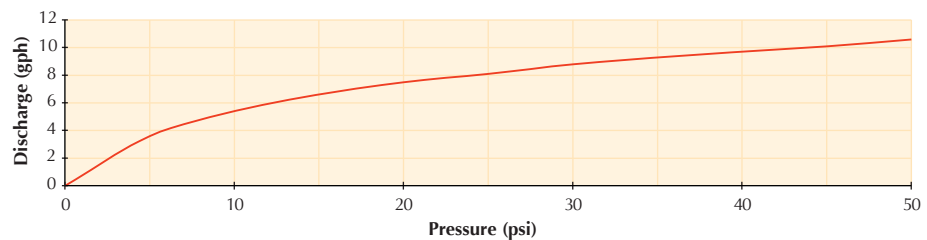
Pots, planter boxes, balcony, patio and landscape applications.



Shrubbler® 360° PC
Barb 0.16"

Performance			 360°
NORMAL FLOW	PRESSURE (psi)	FLOW (gph)	DIAMETER (in)
6 gph	15	6.6	10.2
	20	7.5	11.8
	30	8.8	14.0
	35	9.3	14.6
	40	9.7	15.0

Flow Rate 360°



Shrubbler® 360° PC
Spike 0.16"

Shrubbler® 360° PC Fixed Flow

BASE TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
Barb 0.16"	31685	100	50	20.4
Spike	31695	25	50	15.9

Specifications

DIMENSIONS ASSEMBLED		BARB	SPIKE
HEIGHT		1.0"	5.3"
WIDTH		0.8"	0.6"
DIAMETER		0.6"	1.0"
WEIGHT (approx)		0.06 oz	0.19 oz
UV STABILIZED MATERIAL	BASE CAP DIAPHRAGM	polypropylene polypropylene silicone	polypropylene polypropylene silicone
BASE/CONNECTION TYPE: Inlet		BARB 0.16"	BARB 0.16"



Mini Bubbler 360° Adjustable Flow



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



Mini Bubbler Spike 0.16" with adapter



Mini Bubbler Barb 0.16"



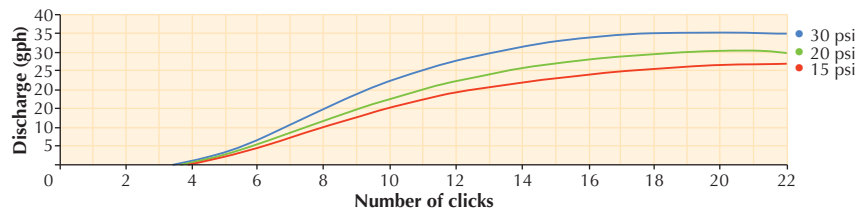
Mini Bubbler Thread 10-32 UNF



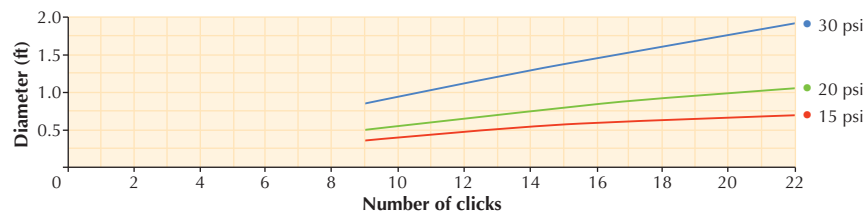
Mini Bubbler Thread 1/2"

Performance		360°	
	PRESSURE (psi)	FLOW (gph)	DIAMETER (ft)
fully open (approx. 22 clicks)	15	27.0	0.69
	20	30.1	1.05
	30	35.0	1.89

Flow Rate



Diameter of Throw



Mini Bubbler 360°

BASE TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
Barb 0.16"	31745	100	50	19.6
Thread 10-32 UNF	31715	100	50	24.0
Thread 1/2" FNPT	31725	25	50	13.7
Spike	31795	25	40	14.7

Specifications: Shrubber® and Mini Bubbler

DIMENSIONS ASSEMBLED		BARB	THREAD	TAPER	THREAD 1/2"	SPIKE
HEIGHT		0.9"	0.9"	0.9"	1.3"	5.3"
WIDTH		0.8"	0.8"	0.8"	1.0"	1.7"
DEPTH		0.6"	0.6"	0.6"	1.0"	0.6"
WEIGHT (approx)		0.06 oz	0.07 oz	0.07 oz	0.15 oz	0.19 oz
UV STABILIZED MATERIAL	BASE CAP	polypropylene polypropylene	acetal polypropylene	acetal polypropylene	polypropylene polypropylene	polypropylene polypropylene
BASE/CONNECTION TYPE: Inlet		BARB 0.16"	10-32 UNF THREAD	TAPER # 6 (Refer Page 4.0)	THREAD 1/2" FNPT	BARB 0.16"

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 color coded flow rates: 1/2 gph, 1 gph & 2 gph.
- Turbulent flow path and self-flushing action with insect baffle to minimize blockages.
- Inlet barb has built-in filter.
- Outlet suitable for attaching 0.16" micro tube.
- UV stabilized materials for long life

Applications

Pots, patios and landscape applications.

DRIPPERS



Pinch Drip™
PC 1/2 gph
Barb 0.16"

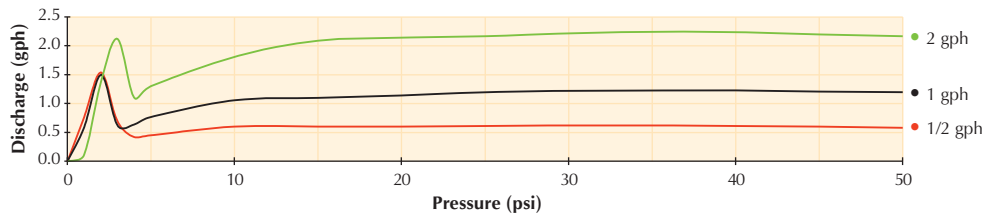
Performance PRESSURE (psi)	DISCHARGE (gph)		
	1/2 gph	1 gph	2 gph
5	0.45	0.77	1.30
10	0.60	1.06	1.81
15	0.60	1.10	2.09
20	0.60	1.14	2.14
25	0.61	1.20	2.17
MINIMUM CROSS SECTION (inch)	0.027 x 0.024	0.031 x 0.031	0.047 x 0.035

* C_v for all Pinch Drip™ emitters conforms to ISO 9261



Pinch Drip™
PC 1 gph
Barb 0.16"

Discharge Rate: Pinch Drip™ PC



Pinch Drip™ PC

NOMINAL FLOW	BASE COLOR	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
1/2 gph	Red	30705	100	50	13.4
1 gph	Black	30715	100	50	13.4
2 gph	Green	30725	100	50	13.4



Pinch Drip™
PC 2 gph
Barb 0.16"

Specifications

DIMENSIONS ASSEMBLED		UV STABILIZED MATERIAL	BASE/CONNECTION TYPE
HEIGHT	1.0"	CAP polypropylene	Inlet: BARB 0.16"
WIDTH	1.1"	BASE polypropylene	Outlet: SPOUT 0.16"
DEPTH	0.6"	DIAPHRAGM silicone rubber	
WEIGHT (approx)	1.2 oz		



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

Features

- Registered design.
- 1 gph Pressure Compensating.
- Turbulent flow path and self-flushing action with insect baffle to minimize blockages.
- Inlet barb has built-in filter.
- Outlet suitable for attaching 0.16" micro tube.
- UV stabilized materials for long life.
- Retail packaging for promotional counter sales.

Applications

Pots, patios and landscape applications.



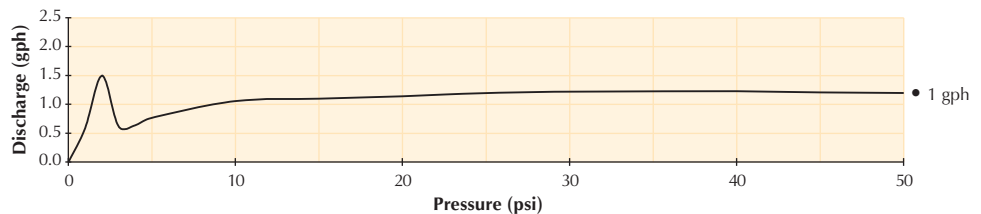
DripPets® Frog
1 gph PC

Performance		1 gph
PRESSURE (psi)	DISCHARGE (gph)	
5	0.77	
10	1.06	
15	1.10	
20	1.14	
25	1.20	



DripPets® Ladybug
1 gph PC

Discharge Rate: DripPets®



DripPets® 1 gph Pressure Compensating

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
DripPets® Frog	30815	100	18	18.6
DripPets® Ladybug	30845	100	18	17.0



DripPets® Frog
Retail Box

Specifications

	DIMENSIONS ASSEMBLED		UV STABILIZED MATERIAL		BASE/CONNECTION TYPE	
	FROG	LADYBUG				
HEIGHT	1.0"	1.0"	CAP	polypropylene	Inlet: BARB	0.16"
DIAMETER	1.2"	1.1"	BASE	polypropylene	Outlet: SPOUT	0.16"
DEPTH	1.4"	1.5"	DIAPHRAGM	silicone rubber		
WEIGHT (approx)	0.13 oz	0.10 oz	COVER - FROG	nylon		
			COVER - LADYBUG	acetal		



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

Features

- Registered design
- Three color coded flow rates: 1/2 gph, 1 gph & 2 gph.
- Turbulent flow path and self-flushing action with insect baffle to minimize blockages.
- Inlet barb has built-in filter.
- Outlet suitable for attaching 0.16" micro tube.
- UV stabilized materials for long life

Applications

Nurseries, shade houses, tree lots and landscape applications.

Performance	DISCHARGE (gph)		
	1/2 gph	1 gph	2 gph
PRESSURE (psi)			
5	0.45	0.79	1.27
10	0.61	1.06	1.77
15	0.62	1.11	2.08
20	0.61	1.14	2.13
25	0.61	1.18	2.14
MINIMUM CROSS SECTION (inch)	0.027 x 0.024	0.031 x 0.031	0.047 x 0.035

* C_v for all Asta Drip® emitters conforms to ISO 9261

Asta® Drip
PC 1/2 gph
Spike 0.16"

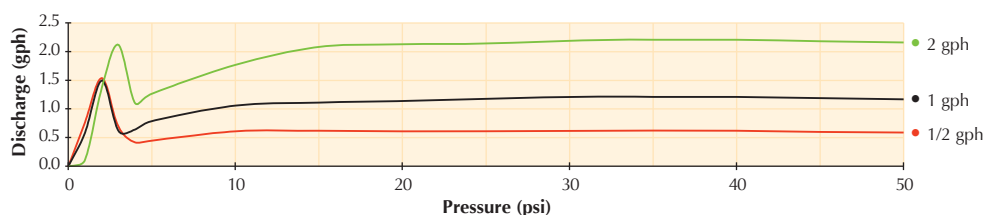


Asta® Drip
PC 1 gph
Spike 0.16"



Asta® Drip
PC 2 gph
Spike 0.16"

Discharge Rate: Asta® Drip PC



Asta® Drip PC

NOMINAL FLOW	BASE COLOR	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
1/2 gph	Red	30735	25	50	15.9
1 gph	Black	30745	25	50	15.9
2 gph	Green	30755	25	50	15.9

Specifications

DIMENSIONS ASSEMBLED		UV STABILIZED MATERIAL		BASE/CONNECTION TYPE	
HEIGHT	5.7"	SPIKE	polypropylene	Inlet: BARB	0.16"
WIDTH	1.3"	BASE	polypropylene	Outlet: SPOUT	0.16"
DEPTH	1.7"	DIAPHRAGM	silicone rubber		
WEIGHT (approx)	0.17 oz				



Midi Drip™ Emitters



1 gph 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.

DRIPPERS



Midi Drip™ Spike 0.16"

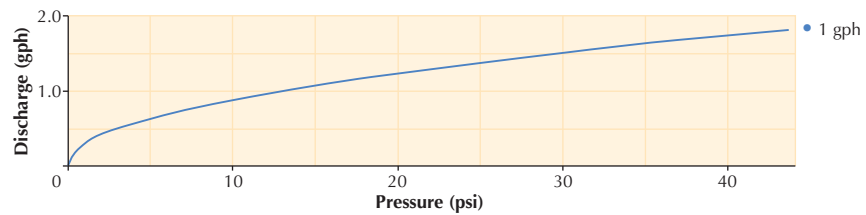


Midi Drip™ Barb 0.16"

Performance		1 gph
PRESSURE (psi)	DISCHARGE (gph)	
5	0.62	
10	0.88	
15	1.07	
20	1.24	
25	1.39	
MINIMUM CROSS SECTION (inch)		0.025 x 0.020

* C_v for all Midi Drip™ emitters conforms to ISO 9261

Discharge Rate



Midi Drip™ Emitters 1 gph Nominal Discharge

BASE TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
Barb	30145	100	50	11.6
Spike	30195	25	50	13.6

Specifications

DIMENSIONS ASSEMBLED	BARB	SPIKE	UV STABILIZED MATERIAL	BASE/CONNECTION TYPE
HEIGHT	0.7"	4.9"	BODY polypropylene	Inlet: BARB 0.16"
LENGTH	1.4"	2.0"	KEY polypropylene	
WIDTH	0.35"	0.35"	SPIKE polypropylene	
WEIGHT (approx)	0.053 oz	0.163 oz		

CETA® Pressure Compensating Drippers



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 minimize blockages.
- PC barbed dripper range: 1/2 gph, 1 gph & 2 gph with 0.16" spout.
- Also available with 0.12" & 0.16" barb outlets.
- Colored bases to identify flow rates.
- 1 gph PC Spike and In-Line Spike models to anchor CETA® at the plant.

Applications

Pots, planter boxes, balcony patio and landscape applications.



CETA®
PC 1 gph
Spike 0.16"

CETA®
PC 1 gph
In-Line Spike 0.16"



CETA®
PC 1/2 gph
Barb 0.16"

CETA®
PC 1 gph
Barb 0.16"

CETA®
PC 2 gph
Barb 0.16"



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

CETA®
PC 1 gph
Barb 0.16"
0.12" or 0.16"
Outlet

CETA®
PC 2 gph
Barb 0.16"
0.12" or 0.16"
Outlet

Performance	DISCHARGE (gph)		
	1/2 gph	1 gph	2 gph
5	0.41	0.76	1.47
10	0.51	0.92	1.80
15	0.54	1.00	2.08
20	0.57	1.07	2.08
25	0.59	1.12	2.11

* C_v for all CETA® PC emitters conforms to ISO 9261

CETA® PC

NOMINAL FLOW	BASE COLOR	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
1/2 gph	Red	30425	100	50	15.6
1 gph	Black	30445	100	50	15.6
2 gph	Green	30485	100	50	15.6

CETA® PC with 0.12" Barb Outlet

NOMINAL FLOW	BASE COLOR	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
1/2 gph	Red	30515	100	50	24.3
1 gph	Black	30525	100	50	24.3
2 gph	Green	30535	100	50	24.3

CETA® PC with 0.16" Barb Outlet

NOMINAL FLOW	BASE COLOR	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
1/2 gph	Red	30545	100	50	24.3
1 gph	Black	30555	100	50	24.3
2 gph	Green	30565	100	50	24.3

CETA® PC 1 gph Spike

BASE TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
Spike	30625	25	40	13.4
In-Line Spike	30655	25	40	14.4

Specifications

DIMENSIONS		CETA® PC	CETA® PC With 0.12" or 0.16" Barb Outlet	CETA® PC Spike/In-Line Spike
HEIGHT		1.0"	1.4"	5.3"
WIDTH		0.8"	0.8"	1.7"/1.4"
DEPTH		0.6"	0.6"	0.6"
WEIGHT (approx)		0.06 oz	0.07 oz	0.18 oz
UV STABILIZED MATERIALS	BASE/SPIKE CAP DIAPHRAGM ADAPTER	polypropylene polypropylene silicone	polypropylene polypropylene silicone acetal	polypropylene polypropylene silicone
CONNECTION TYPE: Inlet Outlet		BARB 0.16" SPOUT 0.16"	BARB 0.16" BARB 0.12" or 0.16"	BARB 0.16" SPOUT 0.16"



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

Features

- Standard range: 1/2 gph, 1 gph and 2 gph.
- Pressure Compensating range: 1/2 gph, 1 gph & 2 gph.
- Positive barb connection to suit 0.16" ID tube.
- UV stabilized materials for long life.
- Resistant to common agricultural chemicals and fertilizers.

Applications

Horticultural tree and row crops, vineyards and landscape applications.



Agri Drip™ Standard Emitter

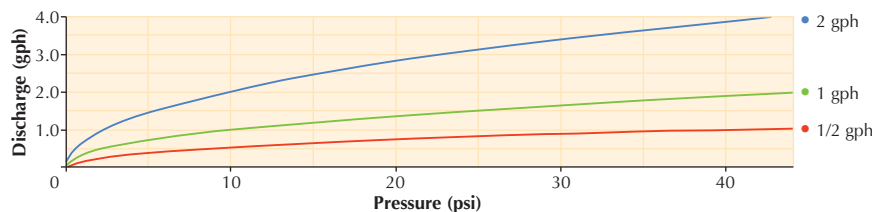


Agri Drip™ Pressure Compensating Emitter

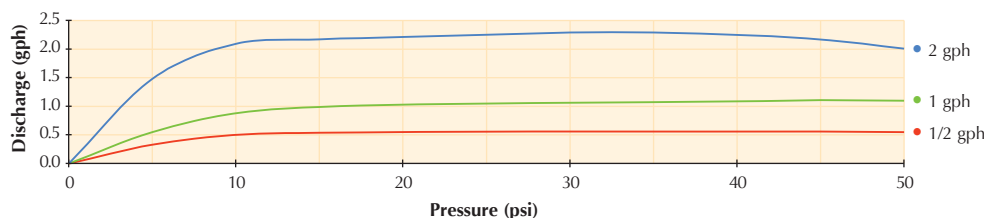
Performance	STANDARD DISCHARGE (gph)			PRESSURE (psi)	COMPENSATING DISCHARGE (gph)		
	1/2 gph	1 gph	2 gph		1/2 gph	1 gph	2 gph
PRESSURE (psi)							
5	0.36	0.70	1.44	15	0.54	0.99	2.17
10	0.50	0.96	2.00	20	0.55	1.03	2.21
15	0.61	1.18	2.42	25	0.56	1.05	2.25
20	0.70	1.35	2.77	35	0.56	1.07	2.29
25	0.78	1.50	3.08	45	0.56	1.11	2.17
MINIMUM CROSS SECTION (inch)	0.035x0.028	0.050x0.032	0.073x0.043		0.027x0.025	0.03x0.03	0.027x0.039

* 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	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
1/2 gph	30225	100	50	14.1
1 gph	30245	100	50	14.1
2 gph	30285	100	50	14.1

Agri Drip™ Pressure Compensating Drip Emitters

NOMINAL FLOW	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
1/2 gph	30325	100	50	14.8
1 gph	30345	100	50	14.8
2 gph	30365	100	50	14.8



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

Specifications

DIMENSIONS ASSEMBLED		UV STABILIZED MATERIAL	BASE/CONNECTION TYPE
HEIGHT	0.9"	BASE polypropylene	Inlet: BARB 0.16"
DIAMETER	0.8"	CAP polypropylene	Outlet: PUSH FIT 0.16"
WEIGHT (approx)	0.039 oz	DISK 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.

SPRAYS



Spectrum™ Spike 0.16" with adapter



Spectrum™ Barb 0.16"

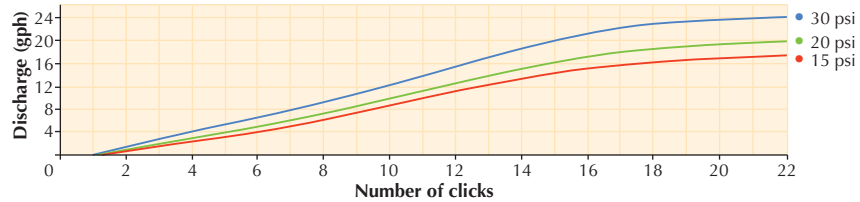
Spectrum™ Thread 10-32 UNF



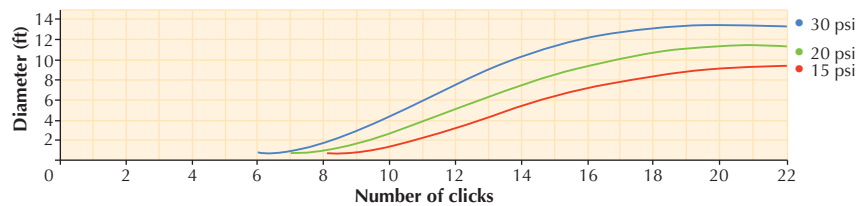
Spectrum™ Thread 1/2"

Performance		360°	
	PRESSURE (psi)	FLOW (gph)	DIAMETER (ft)
fully open (approx. 22 clicks)	15	17.3	9.4
	20	19.8	11.2
	30	24.3	13.3

Flow Rate



Diameter of Throw



Spectrum™ 360°

BASE TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
Barb 0.16"	32045	50	50	13.8
Thread 10-32 UNF	32015	50	50	15.7
Thread 1/2" FNPT	32025	25	50	15.6
Spike	32095	25	40	15.3

Specifications

DIMENSIONS ASSEMBLED		BARB	THREAD	TAPER	THREAD 1/2"	SPIKE
HEIGHT		1.0"	1.0"	1.0"	1.5"	5.3"
WIDTH		0.8"	0.8"	0.8"	1.0"	1.7"
DEPTH		0.6"	0.6"	0.6"	1.0"	0.6"
WEIGHT (approx)		0.06 oz	0.07 oz	0.10 oz	0.17 oz	0.19 oz
UV STABILIZED MATERIAL	BASE CAP DEFLECTOR	polypropylene polypropylene acetal	acetal polypropylene acetal	acetal polypropylene acetal	polypropylene polypropylene acetal	polypropylene polypropylene acetal
BASE/CONNECTION TYPE: Inlet		BARB 0.16"	10-32 UNF THREAD	TAPER # 6 (Refer Page 4.0)	THREAD 1/2" FNPT	BARB 0.16"



Valve adjusts flow and coverage.

Features

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

Applications

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



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

Performance			360° x 18	Mist	180°	90°
*Minimum Opening Size			0.02"	0.05"	0.06"	0.06"
BASE & ORIFICE SIZE	PRESSURE (psi)	FLOW (gph)	DIAMETER OF THROW (ft)		RADIUS OF THROW (ft)	
STANDARD BASE MAX 0.06"	10	0 - 16.7	0 - 18.4		0 - 6.7	0 - 6.4
	15	0 - 21.0	0 - 22.6		0 - 8.1	0 - 8.1
	20	0 - 24.5	0 - 25.7		0 - 9.5	0 - 9.4
	25	0 - 28.0	0 - 26.7		0 - 10.1	0 - 9.8
	30	0 - 31.0	0 - 26.3		0 - 10.6	0 - 10.3
MIST BASE MAX 0.014"	10	0 - 4.0		0 - 3.0		
	15	0 - 5.0		0 - 2.6		
	20	0 - 5.9		0 - 2.9		
	25	0 - 6.6		0 - 2.8		
	30	0 - 7.4		0 - 2.6		

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

Vari-Jet™

SPRAY PATTERN	BASE	CAP COLOR	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
360° x 18 hole	Black 10-32 UNF	Black	13145	50	50	16.2
180° fan	Black 10-32 UNF	Black	13125	50	50	16.2
90° fan	Black 10-32 UNF	Black	13115	50	50	16.0
Mist	Black 10-32 UNF	Black	13195	50	50	16.2



Vari-Jet™
180° fan
10-32 UNF Thread

Specifications

DIMENSIONS ASSEMBLED		UV STABILIZED MATERIAL	BASE/CONNECTION TYPE
HEIGHT	2.0"	CAP acetal	Inlet: 10-32 UNF THREAD
WIDTH	0.9"	BASE acetal	Inlet: TAPER # 6
WEIGHT (approx)	0.14 oz		

Dimensions vary slightly depending on selected base and cap assembly



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

Features

- 45° downspray reduces the effect of wind.
- Gentle spray minimizes damage to delicate plant foliage.
- Galvanized wire stake assembly with 36" tubing.
- Three color coded frames to identify flow rates.
- "Quick" thread for easy insertion into tubing.
- Shut-Off Clip to stop flow.
- UV stabilized for long life.

Applications

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



CfD® Downspray Black

CfD® Downspray Brown

CfD® Downspray Blue



CfD® Downspray Wire Stake Assembly

Performance		360°	
COLOR AND ORIFICE SIZE	PRESSURE (psi)	FLOW (gph)	DIAMETER (in)
Black 0.032"	10	4.8	24
	15	6.0	24
	20	7.2	20
Brown 0.035"	10	6.0	24
	15	7.5	20
	20	8.6	20
Blue 0.039"	10	7.0	24
	15	8.9	20
	20	10.5	20

CfD® Downspray

COLOR	ORIFICE SIZE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
Black	0.032"	19005	100	50	18.1
Brown	0.035"	19025	100	50	18.1
Blue	0.039"	19015	100	50	18.1

CfD® Downspray Galvanized Wire Stake Assembly with Shut-Off Clip

COLOR	TUBE LENGTH	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
Black	36"	54305	25	12	20.1
Brown	36"	54325	25	12	20.1
Blue	36"	54315	25	12	20.1

Specifications

DIMENSIONS ASSEMBLED		CfD® DOWNSPRAY	CfD® DOWNSPRAY WIRE STAKE ASSEMBLY
HEIGHT		1.3"	37.4"
WIDTH		1.0"	1.0"
DEPTH		0.3"	0.6"
WEIGHT (approx)		0.05 oz	1.00 oz
UV STABILIZED MATERIALS	FRAME STAKE ADAPTER OFF-TAKE TUBE BARB ADAPTER STAKE	acetal	acetal polypropylene PEVA acetal galvanized steel
BASE/CONNECTION TYPE: Inlet		QUICK THREAD WITH SEALING BARB 0.16"	BARB 0.16"



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

Features

- Open frame and spray plate.
- No moving parts.
- Wide range of spray patterns and trajectories.
- Color coded nozzles for flow rate identification.
- 'Quick' thread for easy insertion into tubing.

Applications

Specifically designed for orchards, vineyards and horticultural crops.

Frame Jets™ and Deflector

PACKAGING	PART NUMBER	MINIMUM ORDER	STANDARD CARTON	CARTON (lbs)
FRAME JET™	Refer to page 2.4	1000	6000	26.9
DEFLECTOR	12998	1000	6000	27.0



Frame Jet™
210° x 8 Pattern

Specifications

DIMENSIONS ASSEMBLED		UV STABILIZED MATERIAL		BASE/CONNECTION TYPE
HEIGHT	1.26"	FRAME	acetal	Inlet: "QUICK" THREAD 0.16" Optional 10-32 UNF
WIDTH	0.5"	BASE	acetal	
LENGTH	1.04"	DEFLECTOR	acetal	
WEIGHT (approx)	0.065 oz			



Deflector for
Frame Jet™

Due to the comprehensive range of Frame Jets™ all are made to order. Allow two weeks for assembly and dispatch. Urgent orders by arrangement. Optional 10-32 UNF thread available upon request. Smaller quantities may be available upon request.



Deflector attached
to Frame Jet™
Butterfly Pattern



Performance and Order Codes



PERFORMANCE		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 Color	Trajectory	Pressure (psi)	Flow (gph)	Part Number	Diameter (ft)		Part Number	Diameter (ft)		Part Number	Diameter (ft)		Part Number	Diameter (ft)	
					High	Low		Part Number	Diameter (ft)		Part Number	Length		Width	Part Number
Black 0.030"	26° High 12.5° Low	10	4.9	12108	13	10	12308	9	12508	10	12608	11	12708	6	12808
		15	5.9		11	11		13		7					
		20	6.9		12	12		14		8					
		25	7.6		13	13		15		9					
Orange 0.034"	26° High 12.5° Low	10	5.4	12178	15	10	12378	10	12578	12	12678	12	12778	7	12878
		15	6.7		18	11		14		8					
		20	7.7		18	14		16		9					
		25	8.5		19	16		17		10					
Brown 0.035"	26° High 12.5° Low	10	6.1	12128	20	17	12328	14	12528	15	12628	15	12728	7	12828
		15	7.5		17	14		12		9					
		20	8.7		19	15		14		10					
		25	9.7		20	16		15		11					
Blue 0.040"	26° High 12.5° Low	10	7.9	12118	16	13	12318	11	12518	11	12618	13	12718	8	12818
		15	9.9		18	16		13		10					
		20	11.3		20	17		15		11					
		25	12.6		22	19		17		12					
Purple 0.045"	26° High 12.5° Low	10	10.0	12168	18	15	12368	12	12568	12	12668	15	12768	9	12868
		15	12.3		21	17		15		11					
		20	14.3		24	20		17		13					
		25	15.9		26	22		18		14					
Gray 0.048"	26° High 12.5° Low	10	11.4	12148	20	16	12348	14	12548	18	12648	16	12748	10	12848
		15	14.2		24	20		17		12					
		20	16.2		27	22		18		13					
		25	18.2		29	24		20		15					
Green 0.050"	26° High 12.5° Low	10	13.0	12138	20	16	12338	14	12538	14	12638	16	12738	11	12838
		15	16.0		24	20		17		13					
		20	18.5		27	22		19		15					
		25	20.7		29	24		22		16					
Olive 0.059"	26° High 12.5° Low	10	16.7	12188	23	18	12388	17	12588	17	12688	16	12788	12	12888
		15	20.5		28	23		20		15					
		20	23.8		32	26		22		16					
		25	26.9		34	29		24		17					
Red 0.060"	26° High 12.5° Low	10	17.8	12158	21	17	12358	15	12558	18	12658	18	12758	13	12858
		15	21.9		26	21		22		15					
		20	25.2		29	24		21		18					
		25	28.4		31	27		23		19					
30	30.7	34	29	27	25	19									



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

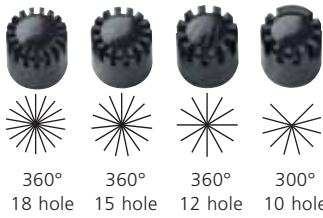
Features

- Caps available in eight spray patterns.
- Eight color coded bases to identify flow rate.
- Jet assemblies made to order.
- Caps and bases can be ordered separately.
- Available in 10-32 Hex and Winged "Quick" thread.

Applications

Assemblies suit garden bed watering and landscaped areas.

SPRAYS



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



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

Hexagon Jet Base 10-32 UNF Thread

Winged Jet Base with "Quick" Thread



0.07"



0.03"

Spray Caps

SPRAY PATTERN	CAP COLOR	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
360° x 18 hole	Black	10845	100	50	3.6
360° x 15 hole	Black	10855	100	50	3.6
360° x 12 hole	Black	10865	100	50	3.6
300° x 10 hole	Black	10875	100	50	3.6
270° (3 x 90°)	Black	10835	100	50	3.6
180° fan	Black	10825	100	50	3.6
90° fan	Black	10815	100	50	3.6
Strip (2 x 20°)	Black	10885	100	50	3.6

Jet Bases

COLOR	BASE		PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
	ORIFICE SIZE	TYPE				
Black	0.03"	Hexagon	10905	100	50	5.6
Brown	0.035"	Hexagon	10925	100	50	5.6
Blue	0.04"	Hexagon	10915	100	50	5.6
Green	0.05"	Hexagon	10935	100	50	5.6
Red	0.06"	Hexagon	10955	100	50	5.6
Orange	0.07"	Hexagon	10975	100	50	5.6
Gray	0.08"	Hexagon	10945	100	50	5.6
White	0.09"	Hexagon	10985	100	50	5.6
Black	0.03"	Winged	10705	100	50	6.5
Brown	0.035"	Winged	10725	100	50	6.5
Blue	0.04"	Winged	10715	100	50	6.5
Green	0.05"	Winged	10735	100	50	6.5
Red	0.06"	Winged	10755	100	50	6.5

Specifications

DIMENSIONS	CAP	BASE WINGED	BASE HEXAGON
HEIGHT	0.35"	0.8"	0.8"
WIDTH	0.32"	across wings 0.5"	across flats 0.5"
WEIGHT (approx)	0.007 oz	0.02 oz	0.02 oz
UV STABILIZED MATERIALS	acetal	acetal	acetal
BASE/CONNECTION TYPE: Inlet		"QUICK" THREAD 0.16"	10-32 UNF THREAD

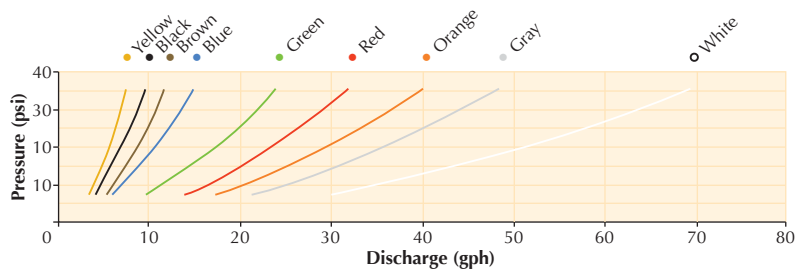
Micro Spray Jets: Performance & Flow Rates



Performance												
*Minimum opening size			0.02"	0.02"	0.03"	0.03"	0.05"	0.05"	0.06"	0.06"	0.05"	
BASE COLOR & ORIFICE SIZE	PRESS. (psi)	FLOW (gph)	DIAMETER (ft)						RADIUS (ft)		DIAMETER (ft)	
			Black 0.03"	10 15 20 25 30	4.7 5.9 6.9 7.8 8.6	10.2 13.4 14.7 15.6 16.4	9.2 10.6 11.5 12.4 14.0	9.5 10.7 12.5 13.7 15.5	5.9 11.0 14.8 17.5 20.0	10.9 11.4 9.2 8.8		10.4 14.1 16.8 18.9 19.9
Brown 0.035"	10 15 20 25 30	6.1 7.5 8.6 9.6 10.5	10.8 13.3 15.1 16.9 18.6	10.2 12.6 14.1 15.0 16.8	9.7 11.3 13.1 15.0 17.6	9.7 13.4 16.4 19.5 22.0	8.5 11.2 10.8 9.8 9.4	11.5 15.5 18.7 21.4 22.5	4.7 6.1 7.6 8.2 8.6	4.8 5.3 5.7 5.9 6.3		
Blue 0.04"	10 15 20 25 30	7.0 8.9 10.5 12.0 13.3	13.4 15.8 18.2 19.6 20.4	10.5 12.6 14.8 17.5 20.9	11.2 14.6 16.4 17.6 23.0	10.9 16.3 21.4 25.3 28.6	12.5 13.3 10.6 11.1 10.6	11.5 15.9 17.7 19.0 19.0	5.2 6.7 7.7 8.5 9.2	5.2 6.0 6.4 6.6 7.0		
Green 0.05"	10 15 20 25 30	11.5 14.5 17.2 19.5 21.5	17.4 21.1 22.5 23.3 23.8	15.8 19.1 20.0 22.1 26.1	13.0 16.7 19.1 20.3 23.5	12.8 18.8 22.5 25.4 26.4	11.0 11.5 12.0 12.1 12.3	15.5 19.3 22.4 25.4 28.3	5.8 7.4 8.4 9.1 9.6	5.7 6.6 7.2 7.8 8.4		
Red 0.06"	10 15 20 25 30	16.3 20.0 23.5 26.0 29.0	18.4 22.6 25.7 26.7 26.3	15.9 20.1 23.6 27.2 29.4	15.6 20.9 26.0 30.5 33.5	16.4 18.1 24.8 32.4 34.5	11.1 12.6 14.0 15.0 15.8	17.8 21.9 27.5 31.8 35.8	6.4 8.1 9.4 9.8 10.8	6.7 8.1 9.5 10.1 10.6		
Orange 0.07"	10 15 20 25 30	20.0 25.0 29.0 33.0 36.5	18.5 22.5 25.6 26.5 25.0	18.6 22.9 27.6 30.6 33.7	20.1 25.4 29.6 32.6 35.8	18.3 24.7 28.2 30.6 33.2	12.8 13.9 14.8 15.7 10.3	19.6 26.9 26.9 32.9 36.1	6.6 8.0 9.0 9.8 10.3	6.8 8.0 8.7 9.7 10.3		
Gray 0.08"	10 15 20 25 30	25.0 31.0 35.5 40.0 44.0	20.1 24.6 25.9 26.0 25.0	19.2 25.4 29.9 33.8 37.0	20.9 27.3 31.6 36.4 39.9	17.6 24.7 28.9 31.4 35.3	13.6 15.2 16.4 17.3 16.7	22.2 31.6 37.8 42.3 43.5	6.8 8.7 9.9 10.5 10.9	6.8 8.3 9.7 10.5 10.9		
White 0.09"	10 15 20 25 30	35.5 44.0 51.0 57.0 63.0	19.4 23.3 23.8 23.4 22.7	19.4 26.7 31.9 36.5 37.8	23.7 30.8 36.5 40.4 43.2	16.1 23.1 29.9 33.3 35.3	14.8 18.0 20.7 23.4 25.8	23.2 30.0 34.5 37.3 39.9	7.7 10.0 11.3 12.1 12.6	7.8 9.3 10.5 12.3 13.2		
Yellow 0.014"	10 15 20 25 30	4.0 4.8 5.6 6.2 6.8										3.0 2.6 2.9 2.8 2.6

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

Flow Rate





Two piece jets with precise watering patterns. Winged base for easy hand installation. Effective performance at low pressure (15 psi).

Features

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

Applications

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

Micro Spray Jets Assembled

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
Assembled Two-Piece Spray Jet	Cap & Base	1000	26	45.9

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



360° x 18 hole



180° fan



90° fan



Strip Spray
(2 x 20°)



360° Mist Jet



360° x 18 hole

Mist Jets Assembled

TYPE	BASE COLOR	CAP COLOR	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
MIST JET – Hexagon Base	Yellow	Black	11995	100	50	8.9
MIST JET – Winged Base	Yellow	Black	14995	100	50	9.5

Specifications

DIMENSIONS ASSEMBLED		BASE WINGED	BASE HEXAGON	BASE HEXAGON
HEIGHT		0.9"	0.8"	0.8"
WIDTH		0.5"	0.3"	0.3"
WEIGHT (approx)		0.025 oz	0.028 oz	0.028 oz
UV STABILIZED MATERIALS	BASE CAP	acetal acetal	acetal acetal	acetal acetal
BASE/CONNECTION TYPE: Inlet		"QUICK" THREAD 0.16"	TAPER # 6 (Refer Page 4.0)	10-32 UNF THREAD
Dimensions vary slightly depending on selected base and cap assembly.				

Single Piece Jets



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 color coded flow rates.

Applications

Home and landscaped gardens and horticultural applications.



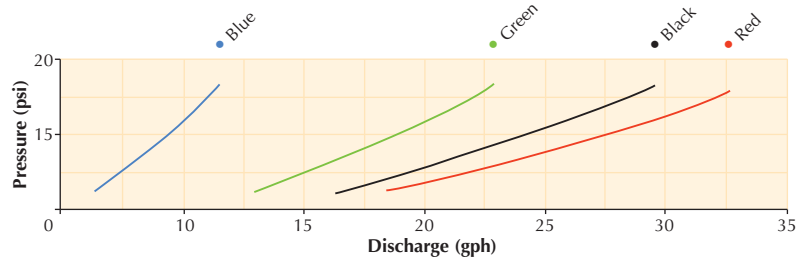
Single Piece Jets
360°

Single Piece Jets
180°

Single Piece Jets
90°

Performance			360°	180°	90°
COLOR AND ORIFICE SIZE	PRESSURE (psi)	FLOW (gph)	DIAMETER (ft)	RADIUS (ft)	
Blue 0.04"	10	7.5	5.7	2.8	4.0
	15	9.5	6.6	3.3	4.6
	20	11.0	7.5	3.8	5.3
Green 0.06"	10	15.0	7.0	3.6	4.6
	15	18.8	7.9	4.1	5.3
	20	21.8	8.9	4.7	6.0
Black 0.067"	10	19.4	8.4	4.3	5.6
	15	24.2	9.3	5.0	6.3
	20	28.2	10.2	5.6	7.0
Red 0.075"	10	21.7	9.0	5.0	6.3
	15	27.4	9.8	5.6	6.9
	20	31.4	10.8	6.3	7.6

Flow Rate



Single Piece Jet

SPRAY PATTERN	COLOR	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
360°	Blue	15445	100	50	7.4
180°	Blue	15425	100	50	7.4
90°	Blue	15415	100	50	7.4
360°	Green	15545	100	50	7.4
180°	Green	15525	100	50	7.4
90°	Green	15515	100	50	7.4
360°	Black	15645	100	50	7.4
180°	Black	15625	100	50	7.4
90°	Black	15615	100	50	7.4
360°	Red	15745	100	50	7.4
180°	Red	15725	100	50	7.4
90°	Red	15715	100	50	7.4

Specifications

DIMENSIONS		UV STABILIZED MATERIALS	BASE/CONNECTION TYPE
HEIGHT	0.87"	acetal	Inlet: "QUICK" THREAD 0.16"
WIDTH across wings	0.5"		
WEIGHT (approx)	0.021 oz		



Rotor Spray™ Mini Sprinklers



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

Features

- 'C' Frame design for strength and high distribution uniformity.
- Full flow flipper suspended between two bearings for reliable performance.
- Inverted model incorporates special khaki colored flipper with dust cover to protect bearing.
- Six color coded nozzles to identify flow rates.
- 10-32 thread for installing into Rigid Risers, tubing & 1/2" threaded adapters.
- UV stabilized materials for long life.

Applications

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

SPRINKLERS



Rotor Spray™
10-32 UNF Thread

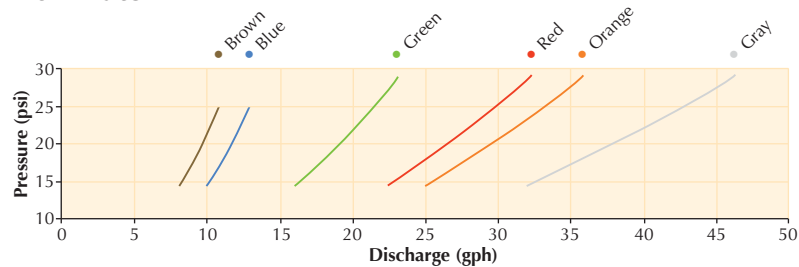


Inverted Rotor Spray™
10-32 UNF Thread



Vari-Rotor Spray™
10-32 UNF Thread

Flow Rate



Rotor Spray™

COLOR	BASE		PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
	ORIFICE SIZE	BASE TYPE				
Brown	0.035"	10-32 UNF	20025	50	50	12.7
Blue	0.04"	10-32 UNF	20015	50	50	12.7
Green	0.05"	10-32 UNF	20035	50	50	12.7
Red	0.06"	10-32 UNF	20055	50	50	12.7
Orange	0.07"	10-32 UNF	20075	50	50	12.7
Gray	0.08"	10-32 UNF	20045	50	50	12.7

Inverted Rotor Spray™

COLOR	BASE		PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
	ORIFICE SIZE	BASE TYPE				
Brown	0.035"	10-32 UNF	20125	50	50	12.7
Blue	0.04"	10-32 UNF	20115	50	50	12.7
Green	0.05"	10-32 UNF	20135	50	50	12.7
Red	0.06"	10-32 UNF	20155	50	50	12.7
Orange	0.07"	10-32 UNF	20175	50	50	12.7
Gray	0.08"	10-32 UNF	20145	50	50	12.7

Vari-Rotor Spray™

COLOR	BASE		PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
	ORIFICE SIZE	BASE TYPE				
Black	0.06" Max	10-32 UNF	20205	25	50	12.2



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



Rotor Spray™
10-32 UNF Thread

Performance			ROTOR SPRAY™		VARI-ROTOR SPRAY™		INVERTED ROTOR SPRAY™	
			●		●		●	
			Tested 0.65 ft above ground		Tested 0.65 ft above ground		Tested 2.6 ft above ground	Tested 6.6 ft above ground
BASE COLOR & ORIFICE SIZE	PRESS. (psi)	FLOW (gph)	DIAMETER (ft)	STREAM HEIGHT (inch)	DIAMETER (ft)	STREAM HEIGHT (inch)	DIAMETER (ft)	DIAMETER (ft)
Brown 0.035"	15	8.1	15	10			13.2	17.9
	20	9.4	17	11			13.8	19.4
	25	10.5	17	13			13.8	20.3
Blue 0.04"	15	9.8	17	11			13.9	18.5
	20	11.7	17	12			14.8	19.4
	25	13.0	17	13			15.7	20.3
Green 0.05"	15	16.8	19	14			13.9	19.1
	20	19.5	21	16			14.8	20.0
	25	22.0	21	21			15.7	20.9
	30	24.0	23	24			16.6	21.8
Red 0.06"	15	22.5	23	21			14.5	20.4
	20	26.5	23	23			15.4	20.8
	25	30.0	27	27			16.0	22.2
	30	33.0	27	28			16.5	24.0
Orange 0.07"	15	27.0	25	16			15.1	21.2
	20	31.5	27	19			15.6	23.0
	25	35.5	29	21			16.3	23.9
	30	39.0	29	24			17.2	24.4
Gray 0.08"	15	32.5	25	18			15.1	21.2
	20	39.0	27	24			15.6	23.0
	25	43.5	29	27			16.3	23.9
	30	48.0	31	28			17.2	24.4
Black max 0.06"	15	0 - 22.0			0 - 23	0 - 21		
	20	0 - 26.0			0 - 23	0 - 23		
	25	0 - 30.0			0 - 27	0 - 27		
	30	0 - 33.0			0 - 27	0 - 28		

Specifications

DIMENSIONS ASSEMBLED		ROTOR SPRAY™ and INVERTED ROTOR SPRAY™	ROTOR SPRAY™ and INVERTED ROTOR SPRAY™	VARI-ROTOR SPRAY™	VARI-ROTOR SPRAY™
HEIGHT		1.4"	1.4"	1.8"	1.8"
WIDTH		1.1"	1.1"	1.1"	1.1"
WEIGHT (approx)		0.07 oz	0.08 oz	0.12 oz	0.13 oz
UV STABILIZED MATERIALS	FRAME	acetal	acetal	acetal	acetal
	BASE	acetal	acetal	acetal	acetal
	FLIPPER	nylon	nylon	nylon	nylon
	KNOB	-	-	HDPE	HDPE
BASE/CONNECTION TYPE: Inlet		10-32 UNF THREAD 0.16"	TAPER # 6 (Refer Page 4.0)	10-32 UNF THREAD 0.16"	TAPER # 6 (Refer Page 4.0)





Rotor Rain® Mini Sprinklers



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.
- Eight color coded nozzles to identify flow rates.
- Rotor can be replaced with break-off spray deflector for close-in watering of immature trees.

Applications

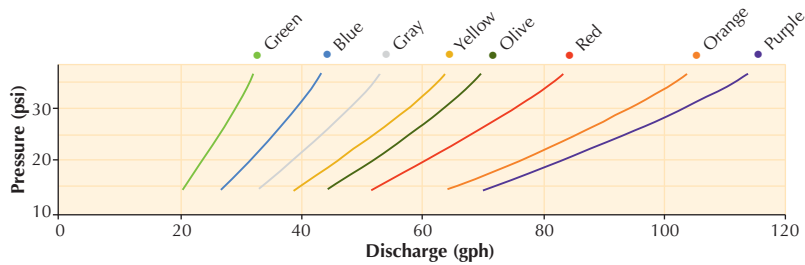
Vines, bananas and tree crops such as citrus and apples.

SPRINKLERS



Rotor Rain® 1/2" Thread

Flow Rate



Rotor Rain® 1/2" MNPT

NOZZLE		PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
COLOR	ORIFICE SIZE				
Green	0.055"	20535	100	10	25.2
Blue	0.07"	20515	100	10	25.2
Gray	0.075"	20545	100	10	25.2
Yellow	0.08"	20595	100	10	25.2
Olive	0.085"	20585	100	10	25.2
Red	0.095"	20555	100	10	25.2
Orange	0.10"	20575	100	10	25.2
Purple	0.11"	20565	100	10	25.2



Rotor Rain® 3/8" Thread

Rotor Rain® 3/8" MNPT

NOZZLE		PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
COLOR	ORIFICE SIZE				
Green	0.055"	20435	100	10	18.9
Blue	0.07"	20415	100	10	18.9
Olive	0.085"	20485	100	10	18.9
Red	0.095"	20455	100	10	18.9
Orange	0.10"	20475	100	10	18.9
Purple	0.11"	20465	100	10	18.9



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



Rotor Rain® 1/2" Thread



Rotor Rain® 3/8" Thread

Performance			●		
			Tested 8" above ground		
NOZZLE COLOR AND ORIFICE SIZE	PRESSURE (psi)	FLOW (gph)	DIAMETER (ft)	STREAM HEIGHT (ft)	DEFLECTOR DIAMETER (ft)
Green 0.055"	15	20.0	26.0	1.8	
	20	23.5	30.0	1.8	9.2
	25	26.5	30.0	1.8	
	30	29.2	30.0	2.1	
Blue 0.07"	15	26.5	30.0	2.2	
	20	31.0	34.0	2.4	9.2
	25	35.0	34.0	2.5	
	30	38.5	34.0	2.6	
Gray 0.075"	15	32.5	34.0	2.4	
	20	38.5	34.0	2.6	9.2
	25	44.0	34.0	2.7	
	30	49.0	34.0	2.8	
Yellow 0.08"	15	40.0	30.0	2.1	
	20	47.0	34.0	2.5	9.8
	25	53.0	38.0	2.8	
	30	58.5	38.0	3.1	
Olive 0.085"	15	44.0	34.0	2.3	
	20	51.0	34.0	2.6	9.8
	25	58.0	38.0	2.8	
	30	63.5	38.0	2.9	
Red 0.095"	15	52.5	34.0	2.2	
	20	61.0	38.0	2.7	10.5
	25	69.0	42.0	3.1	
	30	76.0	42.0	3.4	
Orange 0.10"	15	63.5	38.0	2.2	
	20	75.0	38.0	2.5	10.5
	25	85.0	38.0	2.8	
	30	94.5	40.0	3.0	
Purple 0.11"	15	70.5	38.0	2.6	
	20	83.0	42.0	2.9	13.1
	25	94.5	42.0	3.2	
	30	105.0	42.0	3.5	

Specifications

DIMENSIONS ASSEMBLED	Rotor Rain® 1/2"	Rotor Rain® 3/8"	UV STABILIZED MATERIAL	BASE/CONNECTION TYPE
WIDTH	1.8"	1.8"	FLIPPER nylon	Inlet: THREAD 1/2" MNPT
HEIGHT	1.9"	1.9"	FRAME acetal	Inlet: THREAD 3/8" MNPT
WEIGHT (approx)	0.37 oz	0.28 oz	NOZZLE acetal	





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 colored spinner.
- Inverted model has a 0° flat trajectory, khaki colored spinner.
- Suitable for recycled water applications subject to adequate filtration.
- Easily taken apart for servicing.
- UV stabilized 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™ 1/2" Thread

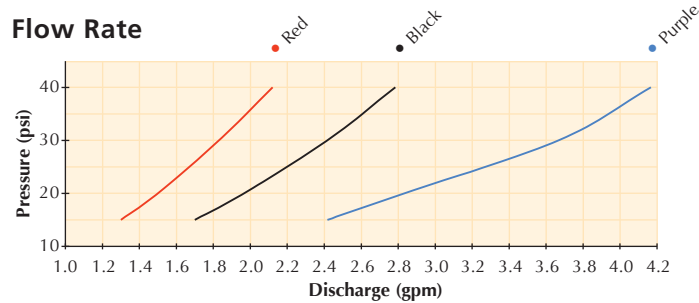


Inverted Rotor Max™ 1/2" Thread

Performance		Rotor Max™ tested 0.65 ft above ground	Inverted Rotor Max™ tested 6.6 ft above ground
NOZZLE COLOR	PRESSURE (psi)	FLOW (gpm)	DIAMETER (ft)
Red 0.11"	15	1.3	36.0
	20	1.5	39.0
	30	1.8	43.0
	40	2.1	43.0
Black 0.13"	15	1.7	36.0
	20	2.0	39.0
	30	2.4	43.0
	40	2.8	45.0
Purple 0.15"	15	2.4	40.0
	20	2.8	42.0
	30	3.7	46.0
	40	4.2	45.0

* Stream height is applicable only to the Rotor Max™

Flow Rate



Rotor Max™ 1/2"

NOZZLE		PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
COLOR	ORIFICE SIZE				
Red	0.11"	21055	20	10	14.1
Black	0.13"	21005	20	10	14.1
Purple	0.15"	21065	20	10	14.1

Inverted Rotor Max™ 1/2"

NOZZLE		PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
COLOR	ORIFICE SIZE				
Red	0.11"	21555	20	10	14.1
Black	0.13"	21505	20	10	14.1
Purple	0.15"	21565	20	10	14.1



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

Specifications

DIMENSIONS ASSEMBLED		UV STABILIZED MATERIAL	BASE/CONNECTION TYPE
HEIGHT	3.8"	FRAME polypropylene	Inlet: THREAD 1/2" BSPM
WIDTH	3.5"	SPINNER acetal	
WEIGHT (approx)	0.95 oz	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 26' to 38'.
- 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

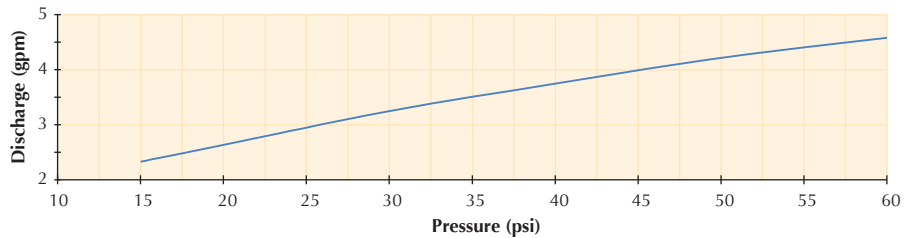
Home and landscaped gardens, and medium to large lawns.



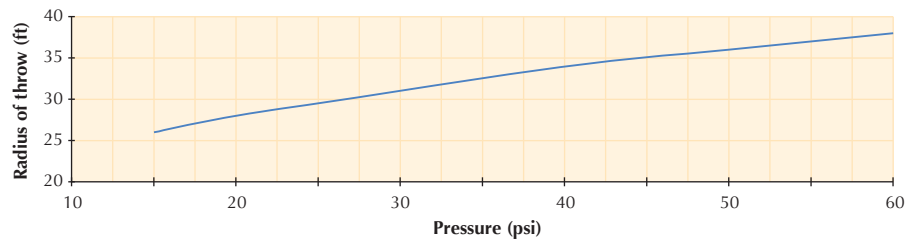
GS1 Gear Drive Sprinkler

Performance			
PRESSURE (psi)	FLOW (gpm)	RADIUS (ft)	STREAM HEIGHT (ft)
15	2.3	26	4
20	2.6	28	5.2
30	3.3	31	6.3
40	3.8	34	6.9
50	4.2	36	7.2
60	4.6	38	7.6

Flow Rate



Radius of Throw



GS1 Gear Drive Sprinkler

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
GS1 GEAR DRIVE SPRINKLER	17055	5	1	9.0

Specifications

DIMENSIONS ASSEMBLED		BASE/CONNECTION TYPE
LENGTH	10.6"	Inlet: SNAP-ON
HEIGHT	4.1"	
WIDTH	9.4"	
WEIGHT (approx)	16.8 oz	



Micro Mate™ Tapered Emitters



Tapered “push-in” base for easy installation and maintenance. Compatible with the range of Antelco tapered fittings. Effective performance at low pressure (15 psi).

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 stabilized materials for long life.

Applications

Commercial, horticultural, landscaped gardens, nursery, home gardens and greenhouse low pressure (15 psi) irrigation systems.

TAPERED



Shrubbler®
Taper # 6



Mini Bubbler
Taper # 6



Spectrum™
Taper # 6



Vari-Rotor Spray™
Taper # 6



Rotor Spray™
Taper # 6



Asta® Micro Mate™
Stake Assembly
(no emitter)

Micro Mate™ Drippers Taper #6

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
SHRUBBLER® 360°	31435	100	50	25.6
SHRUBBLER® 180°	31235	100	50	25.6
MINI BUBBLER 360°	31735	100	50	25.6

Micro Mate™ Sprays Taper #6

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
SPECTRUM™ 360° Taper # 6	32035	50	50	16.0
VARI-JET™ 360° x 18 Black Cap/Black Base	13175	50	50	16.9
VARI-JET™ 180° Black Cap/Black Base	13165	50	50	16.9
VARI-JET™ 90° Black Cap/Black Base	13155	50	50	16.9

Micro Mate™ Jet Bases Taper #6

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
JET Base Blue - 0.04"	10615	100	50	5.6
JET Base Green - 0.05"	10635	100	50	5.6

Micro Mate™ Sprinklers Taper #6

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
ROTOR SPRAY™ 0.04" Blue Base	20715	50	50	13.6
ROTOR SPRAY™ 0.05" Green Base	20735	50	50	13.6
INVERTED ROTOR SPRAY™ 0.04" Blue Base	20815	50	50	13.6
INVERTED ROTOR SPRAY™ 0.05" Green Base	20835	50	50	13.6
VARI-ROTOR SPRAY™ 0.06" Black Base	20215	25	50	12.0

Asta® Micro Mate™ Stake Assemblies Taper #6

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
ASTA® MICRO MATE™ STAKE ASSEMBLY with 24" tubing	55405	25	8	28.1

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 stabilized materials for long life.

Applications

Commercial, horticultural, landscaped gardens, nursery, home gardens and greenhouse low pressure (15 psi) irrigation systems.

Micro Mate™ Fittings

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
JOINER 0.18" barb (taper series)	40175	100	50	5.7
JOINER Taper # 6 (M)	40185	100	50	7.0
TEE Taper # 6 (F)	40365	50	50	12.9
ELBOW Taper # 6 (F) x Taper # 6 (M)	40265	50	50	7.9
PLUG Taper # 6 (M)	42335	100	50	5.8
ADAPTER 1/2" NPTF Thread x Taper # 6 (F)	41045	25	50	17.4
ADAPTER 0.18" barb x Taper # 6 (M)	40975	100	50	6.3
ADAPTER 0.18" barb x Taper # 6 (F)	40985	100	50	12.9
STAKE ADAPTER Taper # 6 (F) x Horizontal Entry	41405	50	50	14.6
STAKE ADAPTER Taper # 6 (F) x Vertical Entry	41415	50	50	14.8
ASTA® MICRO MATE™ STAKE	43625	25	30	27.2



Asta®
Micro Mate™
Stake

Adapter 1/2" NPTF
Thread x Taper (F)



Adapter
Barb x Taper (F)

Adapter
Barb x Taper (M)



Stake Adapter™
Horizontal Entry

Stake Adapter™
Vertical Entry



TAPERED



Micro Fittings



Essential components in low pressure micro irrigation systems. Used in conjunction with standard low pressure tubing. Antelco fittings are practical and durable.

Features

- Micro fittings with single barb or 'Quick' thread connection.
- Adapters 1/2" MNPT and FNPT suit 10-32 or 'Quick' thread emitters.
- UV stabilized materials for long life.

Applications

Home gardens, landscaping, glasshouses and hanging baskets.

FITTINGS



Goof Plugs
(rack of 10)



Adapter 0.16" (F)
x 1/2" MNPT

Goof Plugs

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
GOOF PLUGS (rack of 10)	42325	10	50	3.6



Adapter 0.16" (F)
x 1/2" FNPT



1/2" Riser Adapter
with 1/4" barb

Adapters and Joiners

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
ADAPTER 0.16" (F) x 1/2" FNPT	41015	25	50	10.9
ADAPTER 0.16" (F) x 1/2" MNPT	41075	25	50	10.5
ADAPTER 10-32 UNF thread x thread	40915	100	50	5.5
1/2" RISER ADAPTER with 1/4" barb	51455	25	30	15.8
ADAPTER 0.16" "Quick" thread x thread	40925	100	50	6.4
ADAPTER 0.16" barb x 10-32 UNF thread	40945	100	50	6.8
ADAPTER 0.18" barb x 10-32 UNF thread	40995	100	50	7.0
JOINER 0.16" barb	40145	100	50	7.0
JOINER 0.18" barb	40195	100	50	8.0
JOINER 0.16" barb x barb self-piercing	40935	100	50	6.8



Adapter
"Quick" thread



Adapter barb x
10-32 UNF thread

Elbows, Tees & Crosses

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
ELBOW 0.16" barb	40245	50	50	3.3
ELBOW 0.18" barb	40295	50	50	4.1
TEE 0.16" barb	40345	50	50	4.3
TEE 0.18" barb	40395	50	50	4.3
CROSS 0.16" barb	40445	50	50	5.2
CROSS 0.18" barb	40495	50	50	6.2



Joiner



Joiner barb x barb
self-piercing

Ratchet Clamps

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
RATCHET CLAMP # 15 (tube OD .590 - .630)	44305	100	50	27.3
RATCHET CLAMP # 17 (tube OD .630 - .709)	44345	100	45	24.8
RATCHET CLAMP # 18 (tube OD .670 - .750)	44335	100	40	22.2
RATCHET CLAMP # 20 (tube OD .749 - .827)	44295	100	40	24.5
RATCHET CLAMP # 22 (tube OD .827 - .906)	44315	100	35	23.4
RATCHET CLAMP # 23 (tube OD .860 - .945)	44285	100	32	23.1
RATCHET CLAMP # 28 (tube OD 1.06 - 1.18)	44325	100	16	22.2



Elbow



Tee



Cross



Ratchet Clamp

Saddle Clips & Saddle Clamps

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
SADDLE CLIP w/nail	TBA	TBA	TBA	TBA
SADDLE CLAMP 1/4"	45395	100	TBA	TBA



Saddle Clamp



Saddle Clip

Xpando® Take-Off Fittings



Antelco Xpando® 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 Adapter 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 stabilized materials for long life.

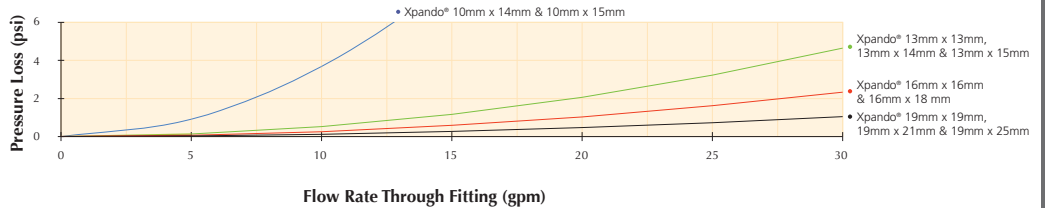
Applications

Agricultural, horticultural, vineyard and landscape applications.

Pressure Loss: Xpando® Take-Off Adapters



Xpando® Take-Off Adapter



Capo® Rubber Grommet



Xpando® Take-Off Adapter 10 mm (for 1" Schedule 40 PVC Pipe)



Capo® Rubber Grommet 10 mm (for 1" Schedule 40 PVC Pipe)



Drill Bit for installation of Xpando® 10 mm Fittings (for 1" Schedule 40 PVC Pipe)

Xpando® Take-Off Adapters

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
XPANDO® 13 mm inlet x 13 mm take-off	45605	25	40	12.9
XPANDO® 13 mm inlet x 14 mm take-off	45595	25	40	13.5
XPANDO® 13 mm inlet x 15 mm take-off	45615	25	40	15.5
XPANDO® 16 mm inlet x 16 mm take-off	45635	25	40	20.9
XPANDO® 16 mm inlet x 18 mm take-off	45585	25	32	18.0
XPANDO® 19 mm inlet x 21 mm take-off	45675	25	25	18.7
XPANDO® 19 mm inlet x 25 mm take-off	45685	25	18	19.9

Capo® Rubber Grommets

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
CAPO® RUBBER GROMMET 13 mm	45735	25	50	10.6
CAPO® RUBBER GROMMET 16 mm	45745	25	50	14.1
CAPO® RUBBER GROMMET 19 mm	45755	25	40	14.2

Xpando® Take-Off Fittings for 1" Schedule 40 PVC Pipe

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
XPANDO® 10 mm inlet x 14 mm take-off	45875	25	50	13.8
XPANDO® 10 mm inlet x 15 mm take-off	45885	25	50	14.5
CAPO® RUBBER GROMMET 10 mm	45725	25	50	9.5
DRILL BIT FOR XPANDO® 10 mm Fittings	51838	1	1	0.1

Installation Guide: Xpando® Take-Off Fittings

TYPE	GROMMET SIZE	DRILL BIT SIZE	MINIMUM PVC SIZE	BARB OUTLET SIZE
XPANDO® 10 mm inlet x 14 mm take-off	10 mm	P/N 51838	1"	14 mm
XPANDO® 10 mm inlet x 15 mm take-off	10 mm	P/N 51838	1"	15 mm
XPANDO® 13 mm inlet x 13 mm take-off	13 mm	5/8"	1 1/2"	13 mm
XPANDO® 13 mm inlet x 14 mm take-off	13 mm	5/8"	1 1/2"	14 mm
XPANDO® 13 mm inlet x 15 mm take-off	13 mm	5/8"	1 1/2"	15 mm
XPANDO® 16 mm inlet x 16 mm take-off	16 mm	3/4"	2"	16 mm
XPANDO® 16 mm inlet x 18 mm take-off	16 mm	3/4"	2"	18 mm
XPANDO® 19 mm inlet x 21 mm take-off	19 mm	7/8"	2"	21 mm
XPANDO® 19 mm inlet x 25 mm take-off	19 mm	7/8"	2"	25 mm

* Sizing guide available at www.antelco.com



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 stabilized materials for long life.

Applications

Low pressure micro irrigation systems.



DB Coupling

DB Coupling

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
DB COUPLING 13 mm (tube ID .520)	47005	25	50	13.8
DB COUPLING 14 mm (tube ID .530)	47015	25	40	12.8
DB COUPLING 15 mm (tube ID .570)	46975	25	50	18.0
DB COUPLING 16 mm (tube ID .600)	47025	25	50	18.8
DB COUPLING 18 mm (tube ID .660)	47035	25	40	17.7
DB COUPLING 21 mm (tube ID .805)	47045	25	30	16.8
DB COUPLING 25 mm (tube ID 1.050)	46995	25	20	15.8



DB Reducing Coupling

DB Reducing Coupling

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
DB REDUCING COUPLING 16 mm x 14 mm	47075	25	50	18.1
DB REDUCING COUPLING 18 mm x 14 mm	47085	25	50	20.1
DB REDUCING COUPLING 25 mm x 13 mm	47065	25	32	19.1
DB REDUCING COUPLING 25 mm x 14 mm	47105	25	32	20.7
DB REDUCING COUPLING 25 mm x 15 mm	47135	25	28	17.5
DB REDUCING COUPLING 25 mm x 16 mm	47145	25	28	17.8
DB REDUCING COUPLING 25 mm x 18 mm	47175	25	26	17.2
DB REDUCING COUPLING 25 mm x 21 mm	46965	25	24	17.0



DB Elbow

DB Elbows

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
DB ELBOW 13 mm (tube ID .520)	47205	25	50	16.1
DB ELBOW 14 mm (tube ID .530)	47215	25	50	19.6
DB ELBOW 15 mm (tube ID .570)	47375	25	50	21.7
DB ELBOW 16 mm (tube ID .600)	47225	25	40	18.5
DB ELBOW 18 mm (tube ID .660)	47235	25	40	21.5
DB ELBOW 21 mm (tube ID .805)	47245	25	20	14.6
DB ELBOW 25 mm (tube ID 1.050)	47255	25	16	16.3



DB Reducing Elbow

DB Reducing Elbows

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
DB REDUCING ELBOW 16 mm x 14 mm	47275	25	50	21.1

* Sizing chart available at www.antelco.com

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 50 psi.



DB Tee

DB Tees

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
DB TEE 13 mm (tube ID .520)	47405	25	40	18.6
DB TEE 14 mm (tube ID .530)	47415	25	30	17.3
DB TEE 15 mm (tube ID .570)	47395	25	30	18.6
DB TEE 16 mm (tube ID .600)	47425	25	25	16.8
DB TEE 18 mm (tube ID .660)	47435	25	20	16.0
DB TEE 21 mm (tube ID .805)	47445	25	12	12.5
DB TEE 25 mm (tube ID 1.050)	47455	25	10	14.8



DB Increasing Tee

DB Increasing Tees

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
DB INCREASING TEE 14 mm line x 16 mm branch	47475	25	30	18.3



DB Reducing Tee

DB Reducing Tees

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
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	50	21.3
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 Male Adapter

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
DB MALE ADAPTER 13 mm x 1/2" MNPT	48035	25	TBA	TBA
DB MALE ADAPTER 14 mm x 1/2" MNPT	48015	25	50	22.6
DB MALE ADAPTER 15 mm x 1/2" MNPT	48025	25	50	22.9
DB MALE ADAPTER 16 mm x 1/2" MNPT	48045	25	TBA	TBA



DB Male Adapter

DB End Plugs

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
DB END PLUG 14 mm	47615	25	50	13.3
DB END PLUG 16 mm	47625	25	50	15.9
DB END PLUG 18 mm	47635	25	50	18.5
DB END PLUG 21 mm	47645	25	40	18.4



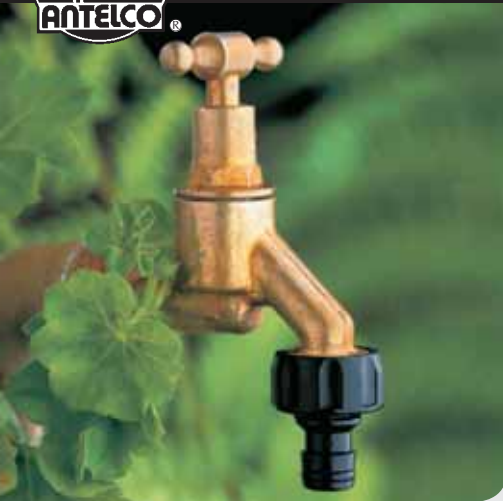
DB End Plug

End Plug (Single Barb)

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
END PLUG 13 mm (Single Barb)	44555	25	50	6.0



Snap-On & Compression Fittings



A range of quick connect and compression fittings specifically to connect polyethylene irrigation tubing. Connect to tap adapters, tap timers, manifold and multi outlet distributors.

Features

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

Applications

Home gardens and landscaping applications.

FITTINGS



Snap-On Tap Adapter



Snap-On Connector Thread 3/4"

Snap-On Connector Barb



Snap-On Joiner



Compression Tee



Compression Elbow



Compression Coupling



Figure 8 End Closure

Snap-On Tap Adapters

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
SNAP-ON TAP ADAPTER 3/4" FNHT	45765	25	40	16.5

Snap-On Connectors

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
SNAP-ON CONNECTOR 1/2" (tube .520 ID)	45465	25	35	26.8
SNAP-ON CONNECTOR 5/8" (tube .570 - .620 ID)	45475	25	32	26.4
SNAP-ON CONNECTOR 3/4" FNHT	44465	25	25	28.5

Snap-On Joiners

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
SNAP-ON JOINER 1/2" (tube .520 ID)	45455	25	75	15.2

Snap-On Hose Kit (Not shown)

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
SNAP-ON HOSE KIT 1/2" (tube .520 ID)	52505	25	16	20.7
SNAP-ON HOSE KIT 5/8" (tube .570 - .620 ID)	52515	25	16	20.7

Compression Fittings - 1/2" Green insert / 5/8" Blue Insert

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
1/2" Compression TEE (tube .520 ID x .620 OD)	51185	25	8	14.0
5/8" Compression TEE (tube .600 ID x .700 OD)	51525	25	8	14.5
1/2" Compression ELBOW (tube .520 ID x .620 OD)	51195	25	10	12.3
5/8" Compression ELBOW (tube .600 ID x .700 OD)	51535	25	8	10.6
1/2" Compression END CAP (tube .520 ID x .620 OD)	51215	25	10	14.0
5/8" Compression END CAP (tube .600 ID x .700 OD)	51515	25	10	14.0
1/2" Compression COUPLING (tube .520 ID x .620 OD)	51175	25	10	14.0
5/8" Compression COUPLING (tube .600 ID x .700 OD)	51545	25	10	14.5

Figure 8 End Closure

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
FIGURE 8 END CLOSURE (fits tubing up to .720 OD)	51275	25	50	9.9

Pressure Regulating Devices



The Pressure Regulating Micro Manifold converts 1/2" irrigation risers to a multiple outlet micro irrigation system.

The Pressure Regulator is ideal for pressure regulation of drip or other low-volume irrigation systems.

Features: Pressure Regulators 3/4"

- Available in 3/4" hose or pipe thread.
- Maintains a preset outlet pressure.
- 30 psi regulator; flows from 6 to 420 gph.

Features: Pressure Regulating Micro Manifold

- Nine outlets pressure regulated to 25 psi.
- Outlets can support drip, micro sprays and/or micro stream bubblers.
- Inlet screen can be removed and cleaned.

Applications

Planters, patios and areas with shrubs, tree or ground cover. Especially useful for a confined area with a mix of plants.



Pressure Regulating Micro Manifold

Performance				
Pressure Regulating Micro Manifold				
INLET PRESSURE (psi)	OUTLET PRESSURE (psi)			
	0.5 gpm	1.0 gpm	2.0 gpm	3.0 gpm
30	21.6	21.0	20.8	20.2
40	22.5	22.5	22.1	21.7
60	24.8	24.5	24.1	23.5
80	26.9	26.3	25.9	25.5
100	29.1	28.3	27.8	27.3

Pressure Regulating Micro Manifold

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
9 Outlet Micro Manifold	51305	10	20	20.4

Lawn & Garden Pressure Regulators

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
Pressure Regulator FNPT Thread x MNPT Thread	51365	25	8	30.5
Pressure Regulator 3/4" (F) Hose x 3/4" Hose (M)	51355	25	8	30.5



Pressure Regulator 3/4" Hose or Pipe Thread

Specifications: Pressure Regulating Micro Manifold

DIMENSIONS		OPERATION		CONNECTION
HEIGHT	2.88"	INLET PRESSURE	20 – 100 psi	INLET BASE 1/2" FNPT OUTLET BARB to suit 1/4" tubing
WIDTH	2.13"	OUTLETS PRESSURE	21 – 28 psi	
WEIGHT (approx)	1.25 oz	FLOW RANGE TOTAL	0.2 – 3.5 gpm (12 – 210 gph)	
			(Flow per outlet max 210 gph / 9 = 23.3 gph)	

Specifications: Pressure Regulators

DIMENSIONS		OPERATION		CONNECTION
HEIGHT	3.19"	OUTLETS PRESSURE	30 psi	INLET BASE 3/4" FNPT, Hose (F) OUTLET 3/4" MNPT, Hose (M)
WIDTH	2.50"	FLOW RANGE TOTAL	0.1 – 7.0 gpm	
WEIGHT (approx)	0.1402 oz			
The Pressure Regulators must always be installed downstream from all shut-off valves, regardless of the application				



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 45 psi.
- Green Back® cap for standard irrigation applications.
- Purple Back® cap for recycled water applications.

Applications

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



Vari-Flow™
barb x barb



Vari-Flow™
thread x thread



Green Back® Valve



Purple Back® Valve

Vari-Flow™ Valves

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
VARI-FLOW™ VALVE barb x barb 0.18"	42155	50	50	15.6
VARI-FLOW™ VALVE 10-32 UNF thread x 0.18" barb	42135	50	50	15.1
VARI-FLOW™ VALVE thread x thread 10-32 UNF	42115	50	50	14.5

Green Back® Valves

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
GREEN BACK® VALVE 13mm - 1/2" (tube .520 ID)	45505	25	20	21.4
GREEN BACK® VALVE 14mm - 1/2" (tube .525 - .590 ID)	45575	25	20	21.4
GREEN BACK® VALVE 15mm - 1/2" (tube .580 - .590 ID)	45555	25	20	21.4
GREEN BACK® VALVE 16mm - 5/8" (tube .570 - .620 ID)	45515	25	20	23.6
GREEN BACK® VALVE 18mm - (tube .660 - .720 ID)	45565	25	8	20.2
GREEN BACK® VALVE 20mm - 3/4" (tube .810 - .820 ID)	45535	25	8	20.7
GREEN BACK® VALVE 25mm - 1" (tube 1.050 ID)	45545	25	3	14.7

Purple Back® Valves

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
PURPLE BACK® VALVE 13mm - 1/2" (tube .520 ID)	46505	25	20	21.4
PURPLE BACK® VALVE 16mm - 5/8" (tube .570 - .620 ID)	46515	25	20	23.6
PURPLE BACK® VALVE 20mm - 3/4" (tube .810 - .820 ID)	46535	25	8	20.7
PURPLE BACK® VALVE 25mm - 1" (tube 1.050 ID)	46545	25	3	14.7

Specifications: Vari-Flow™ Valves

DIMENSIONS ASSEMBLED	BARB	THREAD
HEIGHT	0.8"	0.8"
LENGTH	1.6"	1.6"
WIDTH	0.6"	0.6"
WEIGHT (approx)	0.1 oz	0.1 oz
UV STABILIZED MATERIALS	BODY acetal KNOB HDPE	BODY acetal KNOB HDPE
BASE/CONNECTION TYPE	BARB 0.18"	10-32 UNF THREAD 0.18"

Specifications: Green Back® Valves and Purple Back® Valves

DIMENSIONS ASSEMBLED	13mm, 14mm 15mm, 16mm	18mm, 20mm	25mm
HEIGHT	1.6"	2.1"	2.8"
LENGTH	3.2"	4.0"	4.9"
WIDTH	1.1"	1.6"	2.1"
WEIGHT (approx)	0.64 oz	1.5 oz	2.9 oz
UV STABILIZED MATERIALS	BODY acetal STEM HDPE COVER nylon	BODY acetal STEM polypropylene COVER nylon	BODY acetal STEM polypropylene COVER nylon
BASE/CONNECTION TYPE	BARB	BARB	BARB



Threaded flow control valves for low pressure irrigation systems.

Features

- 1/2" MNPT threaded inlet.
- Simple on-off operation and straight through flow.
- Operating pressure range up to 45 psi.
- Green Back® cap for standard irrigation applications.
- Purple Back® cap for recycled water applications.

Applications

Individual dripline control, tank valves, drain valves or where 1/2" MNPT connections are required.

Threaded Green Back® Valves 1/2" MNPT

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
GREEN BACK® VALVE 13 mm barb x 1/2" MNPT	49005	25	20	21.4
GREEN BACK® VALVE 14 mm barb x 1/2" MNPT	49015	25	20	21.4
GREEN BACK® VALVE 15 mm barb x 1/2" MNPT	49025	25	20	21.4
GREEN BACK® VALVE 16 mm barb x 1/2" MNPT	49035	25	20	23.6



Threaded Green Back® Valve

Threaded Purple Back® Valves 1/2" MNPT

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
PURPLE BACK® VALVE 13 mm barb x 1/2" MNPT	49105	25	20	21.4
PURPLE BACK® VALVE 14 mm barb x 1/2" MNPT	49115	25	20	21.4
PURPLE BACK® VALVE 15 mm barb x 1/2" MNPT	49125	25	20	21.4
PURPLE BACK® VALVE 16 mm barb x 1/2" MNPT	49135	25	20	23.6



Threaded Purple Back® Valve

Specifications: Threaded Green Back® and Purple Back® Valves 1/2" MNPT

DIMENSIONS ASSEMBLED	13mm, 14mm 15mm, 16mm
HEIGHT	1.6"
LENGTH	3.2"
WIDTH	1.1"
WEIGHT (approx)	0.83 oz
UV STABILIZED MATERIALS	BODY acetal STEM HDPE COVER acetal
BASE/CONNECTION TYPE	1/2" MNPT Thread x BARB



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 adapters.
- 80 mesh screen filter.
- Easily taken apart for cleaning.
- Effective compact filter with minimal flow loss.

Applications

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



In-Line Filter Snap-On Filter



In-Line Filter screen detail



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

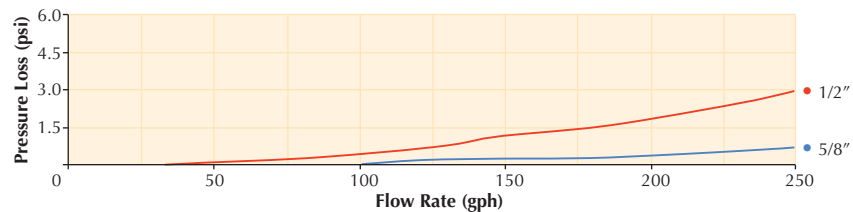
In-Line Filters: 80 Mesh Screen

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
IN-LINE FILTER 1/2" barb (tube .520 ID)	44355	25	12	19.6
IN-LINE FILTER 5/8" barb (tube .570 - .620 ID)	44365	25	12	19.6

Snap-On Filters: 80 Mesh Screen

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
SNAP-ON FILTER 1/2" barb (tube .520 ID)	44405	25	10	20.5
SNAP-ON FILTER 5/8" barb (tube .570 - .620 ID)	44415	25	10	20.5

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



Specifications: In-Line Filter

DIMENSIONS ASSEMBLED	1/2", 5/8"	MATERIAL	BASE/CONNECTION TYPE
LENGTH	5.2"	TAIL Inlet:	Inlet: BARB 1/2", 5/8" Outlet: BARB 1/2", 5/8"
WIDTH	1.3"	BODY Filter & NUT:	
WEIGHT (approx)	1.0 oz	WASHER:	
		SCREEN:	

Specifications: Snap-On Filter

DIMENSIONS ASSEMBLED	1/2", 5/8"	MATERIAL	BASE/CONNECTION TYPE
LENGTH	5.3"	BODY Snap-On Inlet:	Inlet: SNAP-ON CONNECTOR Outlet: BARB 1/2", 5/8"
WIDTH	1.3"	BODY Filter & SLEEVE Snap-On:	
WEIGHT (approx)	1.3 oz	WASHER:	
		SCREEN:	

Rigid Risers



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

Features

- Rigid Risers are available in 4 lengths.
- Rigid Risers in plain, barbed, threaded and 1/2" MNPT configuration.
- UV stabilized materials for long life.

Applications

Rigid Risers accept all "Quick" thread and 10-32 UNF products (i.e. drippers, sprays and sprinklers).

Rigid Risers Plain

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
RISER 6" plain	50115	100	10	11.3
RISER 8" plain	50125	100	10	15.2
RISER 12" plain	50135	100	10	23.0
RISER 18" plain	50145	100	10	33.8



Rigid Riser Plain

Rigid Riser with barbed 0.16" adapter

Rigid Risers with barbed 0.16" adapter

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
RISER 6" with barbed 0.16" adapter	50215	100	10	12.4
RISER 8" with barbed 0.16" adapter	50225	100	10	15.7
RISER 12" with barbed 0.16" adapter	50235	100	10	23.0
RISER 18" with barbed 0.16" adapter	50245	100	10	34.1

Rigid Risers with "Quick" thread adapter

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
RISER 6" with "Quick" thread adapter	50715	100	10	12.5
RISER 8" with "Quick" thread adapter	50725	100	10	16.5
RISER 12" with "Quick" thread adapter	50735	100	10	23.9
RISER 18" with "Quick" thread adapter	50745	100	10	35.3



Rigid Riser with "Quick" thread adapter

Rigid Riser with 1/2" MNPT adapter

Rigid Risers with 1/2" MNPT adapter

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
RISER 6" with 1/2" MNPT adapter	50085	50	10	9.3
RISER 8" with 1/2" MNPT adapter	50095	50	10	11.3
RISER 12" with 1/2" MNPT adapter	50065	50	10	14.6
RISER 18" with 1/2" MNPT adapter	50075	50	8	16.5



Stakes & Micro Pop-ups



The Asta® Stake range provides a simple solution to the variety of spray heights needed in growing landscape and home gardens.

The Micro Pop-Ups are ideal for conversion to low-volume spray irrigation.

Features: Asta® Stake Registered Design

- Four sizes available; 16" and 21" provide stability and extra height.
- Install with flexible vinyl take-off tube for optimum versatility.
- Fits all other .272" OD Vinyl tubing or .300" PE Rigid Riser.
- UV stabilized materials for long life.
- Asta® Stake Adapter adapts Asta® Stake to accept 1/4" tubing & 10-32 thread emitters.

Features: 12" Micro Pop-Ups

- Two inlet sizes: 1/4" tubing or 1/2" MPT.
- Outlet sized for 10-32 or "Quick" thread devices.

Applications

Agricultural, landscape and home garden applications.

ACCESSORIES

Asta® Stake
21"



Asta® Stake
16"



Asta® Stake
12"



Asta® Stake
8"



Asta®
Stake Adapter



Asta® Stakes

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
ASTA® STAKE 8"	40885	25	28	22.2
ASTA® STAKE 12"	40875	25	24	28.4
ASTA® STAKE 16"	40895	25	12	20.1
ASTA® STAKE 21"	40905	25	10	20.8

Asta® Stake Adapter

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
ASTA® STAKE ADAPTER 0.16" (F) x 0.18" Barb	41005	50	50	6.0

Asta® Clip Stake

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
ASTA® CLIP STAKE 5 3/4" (fits tubing .225-.275 OD)	43595	25	50	12.3

Asta® Stakes Hold-Down

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
ASTA® STAKE Hold-Down 7" (fits tubing 1/2" - 3/4" OD)	43615	25	25	21.0

12" Micro Pop-Ups

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
12" Micro Pop-Up 1/4" Barb	51408	50	1	8.4
12" Micro Pop-Up 1/2" MNPT	51428	50	1	8.5

3/8" Stake

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
3/8" FNPT x 4 mm or 6 mm Barb Stake	51415	25	8	15.0



12" Micro
Pop-ups

Asta® Stake
Hold-Down



Asta®
Clip Stake





Complete assemblies available for time saving convenience.

Features

- Pre-Assembled with rigid risers or vinyl tubing for ease of installation.
- Adjustable control with Vari-Jet™ Asta® Stake Assembly.
- UV stabilized materials for long life.

Applications

Flowers and vegetable gardens and micro spray installations.

VARI-JET™ 12" ASTA® STAKE ASSEMBLY with 12" Rigid Riser and 0.16" barb

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
360° VARI-JET™ ASTA® STAKE Assembly	50325	25	12	23.1
180° VARI-JET™ ASTA® STAKE Assembly	50315	25	12	23.1
90° VARI-JET™ ASTA® STAKE Assembly	50305	25	12	23.1

12" ASTA® STAKE with ASTA® STAKE ADAPTER

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
12" ASTA® STAKE with ASTA® STAKE ADAPTER	50345	25	16	20.2

12" ASTA® STAKE ASSEMBLY with 24" vinyl tubing and 0.16" barb

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
ASTA® STAKE Assembly with tubing	50365	25	8	21.8

12" ASTA® STAKE ASSEMBLY with VARI-FLOW,™ 24" vinyl tubing and 0.16" barb

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
ASTA® STAKE ASSEMBLY with VARI-FLOW™ valve & tubing	50355	25	8	23.0

ASTA® MM STAKE ASSEMBLY with 36" vinyl tubing and 0.16" barb

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
ASTA® MM STAKE ASSEMBLY with 36" tubing	55455	25	10	22.0



Vari-Jet™ Asta® Stake Assembly w/12" RR

Asta® Stake with Adapter

Asta® Stake Assembly with 24" tubing



Asta®MM Stake Assembly with tubing

Asta® Stake with Vari-Flow™ valve & tubing



Drip Mate® Professional Drip Kits



The Drip Mate® Professional and Sprinkler Conversion Kits come complete with instructions and all of the essential micro drip components needed to install an efficient drip irrigation system.

Features

- The Drip Mate® Professional Drip Kit connects directly to a hose tap or can be made to adapt to an existing sprinkler system.
- The Sprinkler Conversion Kit converts an existing 1/2" irrigation riser to drip irrigation.
- Instructions provided for easy installation.
- UV stabilized materials for long life.

Applications

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

ACCESSORIES



Drip Mate® Professional Drip Kit

Drip Mate® Professional Drip Kit

TYPE	PART NUMBER	PACKS PER CARTON	CARTON (lbs)
DRIP MATE® Professional Drip Kit	83495	4	15.9

System Components Include:

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



Drip Mate® Sprinkler Conversion Kit

Drip Mate® Sprinkler Conversion Kit

TYPE	PART NUMBER	PACKS PER CARTON	CARTON (lbs)
DRIP MATE® Sprinkler Conversion Kit	81305	5	9.9

System Components Include:

- 9-Outlet Pressure Regulating Micro Manifold w/plugs
- 100 feet Distribution Tubing
- 9 Shrubbler® 360° Spike adjustable flow



Shrubbler® 360°

Drip Mate® Drip & Spray Starter Kits



The Drip Mate® Kits are simple, complete and easy to use. They have been designed to meet your drip irrigation needs and are offered with complete instructions. The Drip Mate® Kits include all of the essential micro drip components needed to install a drip irrigation system.

Features

- Drip Mate® Kits connect directly to a hose tap or can be used in connection with an existing sprinkler system with a few additional components.
- Minimal assembly is required for maximum efficiency.
- Instructions provided for easy installation.
- UV stabilized materials for long life.

Applications

Suitable for home gardens, landscaped gardens, container plants, nurseries, and flower beds.

Drip Mate® Starter Kits



TYPE	PART NUMBER	PACKS PER CARTON	CARTON (lbs)
DRIP MATE® Drip Kit with Shrubbler® 360°	81495	5	21.4
DRIP MATE® Spray Kit with Spectrum™ 360°	82095	5	21.4

System Components Include:

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



Shrubbler® 360°



Spectrum™ 360°



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

Features

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

Applications

Suitable for all micro irrigation applications.



Mainline Tubing

Mainline Tubing

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
1/2" Mainline Tubing P.E. 50 ft .520 ID x .620 OD (Fittings - 13 mm)	51072	1	5	10.8
5/8" Mainline Tubing P.E. 50 ft .600 ID x .700 OD (Fittings - 16 mm)	51082	1	4	10.0



Distribution Tubing

Distribution Tubing

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
1/4" Distribution Tubing Vinyl 50 ft .150 ID x .225 OD	51032	1	15	12.9
1/4" Distribution Tubing Vinyl 100 ft .150 ID x .225 OD	51035	1	10	15.1
1/4" Distribution Tubing Vinyl 1000 ft .150 ID x .225 OD	51036	1	2	30.0
1/4" Distribution Tubing Vinyl 1000 ft .140 ID x .272 OD (for Asta® Assemblies)	50918	1	1	26.4

* 24" and 36" cut lengths available upon request

Punches



Range of multifunctional hand tools to hole punch tube, insert 1/4" emitters and fittings, and cut PE tubing.

Features

- Key Punch™ makes 0.12" hole in tubing. Hexagonal base to install and remove spray jets and interchange their caps.
- Miracle Punch makes 0.18" hole in 1/2" to 3/4" PE tubing.
- Pocket Punch makes 0.12" hole in 1/2" PE tubing, installs and removes emitters.
- Punch 'n' Cut makes 0.12" or 0.18" hole into a range of PE tubing sizes, installs and removes emitters, and cuts PE tubing and PVC up to 1".

Applications

Suitable for all micro irrigation applications.

Punches



Key Punch™



Miracle Punch



Pocket Punch



Punch 'n' Cut

TYPE	PART NUMBER	PACK QUANTITY	PACKS PER CARTON	CARTON (lbs)
KEY PUNCH™	42315	25	50	11.4
MIRACLE PUNCH	50038	1	25	4.7
POCKET PUNCH	50048	1	50	6.4
PUNCH 'n' Cut	51098	1	TBA	TBA



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

FILTRATION

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

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

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

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

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

Drip Irrigation

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

Jets and Sprayers

Minimum orifice size is generally not less than 0.032", in which case a filter with a 100 micron / 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 0.06", filter screen size can vary from 175 micron / 80 mesh (organic matter present) to 500 micron / 35 mesh (only inorganic matter present).

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

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

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

Misuse, neglect or unauthorized repairs shall void this warranty.

The warranty is expressly limited to Antelco Corporation products only.

Antelco Corporation shall not be liable for incidental or consequential damages of any nature. Antelco Corporation's sole liability shall be for the repair or replacement of defective parts at Antelco's sole discretion pursuant with this warranty.

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

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

Order Acceptance

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

Credit

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

Terms

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

Late Charges

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

Minimum Order

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

Freight

Ground freight will be prepaid in the continental US on orders over \$1,250.00 net; Carrier of our choice. Freight will be prepaid and added on all orders under \$1,250.00 net.

Drop Shipments

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

Returned Merchandise

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

Delivery

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

Shortages

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

Pricing

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

Other Conditions of Sales

The laws of Florida apply to all Antelco Corporation contracts and commercial dealings. When you deal with Antelco Corporation you will be understood to agree to that.

State and local laws vary widely on the subject of commercial credit interest and late charges. The Federal Usury Preemption Law currently in effect will apply to all Antelco Corporation transactions wherever applicable.

ANTELCO



PUTTING WATER WHERE IT COUNTS!®

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