Rivulis

[INDOOR CULTIVATION]

control every aspect of your grow environment

+climate
+nutrients
+irrigation
+quality
+CO2
+yield

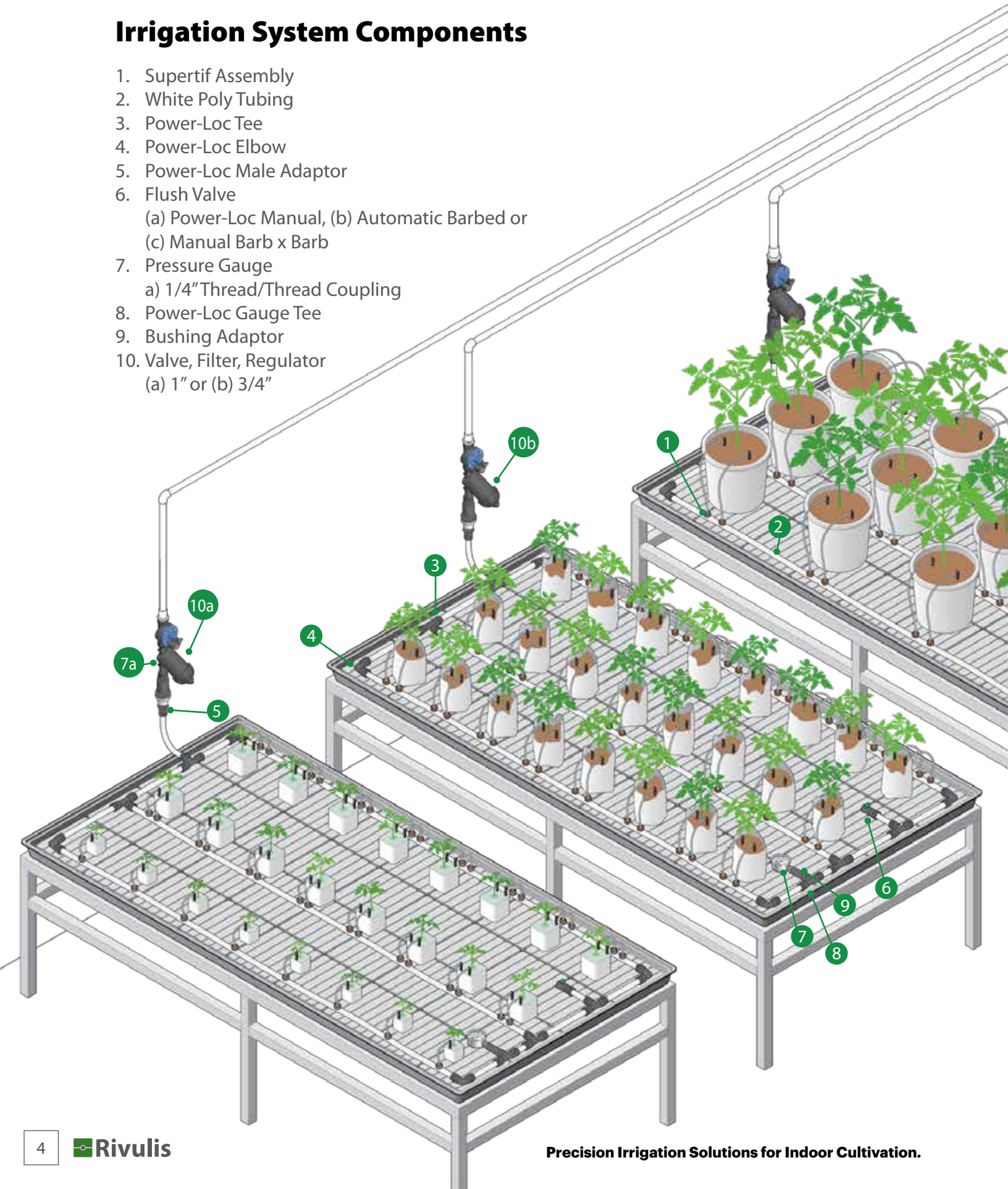
Control Your Grow Environment

High-Yield Irrigation System

A vital aspect of cultivating healthy and high-yield crops is a well-planned irrigation system. With our carefully selected products, you can set up an advanced system that optimizes water and nutrient delivery, maximizing your crop's growth, potency, and overall health.

Irrigation System Components

1. Supertif Assembly
2. White Poly Tubing
3. Power-Loc Tee
4. Power-Loc Elbow
5. Power-Loc Male Adaptor
6. Flush Valve
   (a) Power-Loc Manual, (b) Automatic Barbed or
   (c) Manual Barb x Barb
7. Pressure Gauge
   a) 1/4" Thread/Thread Coupling
8. Power-Loc Gauge Tee
9. Bushing Adaptor
10. Valve, Filter, Regulator
    (a) 1" or (b) 3/4"



Specifying the Right Products

We've made it easy to specify the right products for a standard table setup (4'x8'). Our products are carefully selected to ensure optimal irrigation performance and nutrient delivery. Whether you are designing for one grow table or a large customized setup, our team of experts is available to assist you in tailoring your irrigation system to meet your specific needs.

Ordering Chart

	Order Number	Description	Minimum Order QTY	Order QTY *
1.	101073846	Single Assy Supertif ND Brown/LT Gray .29gph conic+SnapPeg peg 36"	1 Bundle (25 Units)	
1a.	101072234	Single Assy Supertif ND Brown/LT Gray .5gph conic+SnapPeg peg 36"	1 Bundle (25 Units)	
2.	101085028	17MM UV White Poly Tubing	1 Roll (500' Roll)	
3.	101084376	Power-Loc Tee (PL-55-P3T)	1 Bag (25 Units)	
4.	101084378	Power-Loc Elbow (PL-55-PELL)	1 Bag (25 Units)	
5.	101084386	Power-Loc Male Pipe Adapter ¾ MPT (PL-55-P3/4-MA)	1 Bag (10 Units)	
6a.	101083930	Power-Loc End Manual Flush Valve (PL-55-PEF)	1 Bag (10 Units)	
6b.	101107500	Automatic Flush Valve for 17mm PE	1 Bag (10 Units)	
6b.	101079812	Threaded 1/2" Automatic Flush Valve	1 Bag (10 Units)	
6c.	101107502	½" insert Barb x Barb Insert Manual Flush Valve	1 Bag (10 Units)	
7.	101000933	Pump Pressure Gauge 0-100 psi 2.5" Liquid Filled	1 each	
7a.	101054030	¼" Thread/Thread Coupling FIPT	1 Bag (10 Units)	
7b.	101110830	60 psi liquid 2.5" Pressure Guage with Operating Range Indicator	1 each	
8.	101084377	PL-55-PST-WW PowerLoc Gauge Tee x ¾" FHS	1 Bag (10 Units)	
9.	101082387	Pressure Gauge Bushing Adapter (Thread onto Power-Loc Gauge Tee)	1 Bag (10 Units)	
10a.	1" Valve Filter Regulator			
	101075694	1" Irrigation Control Valve 24 VAC	1 each	
	101099149	1" Y-Filter 120 Mesh Disc	1 each	
	101099147	1" Y-Filter 120 Mesh Screen	1 each	
	101079919	40 PSI Pressure Regulator	1 each	
	101000189	1" True Union Ball Valve	1 each	
	101111213	1" Single Union Ball Valve	1 each	
10b.	¾" Valve Filter Regulator			
	101108445	¾" Irrigation Control Valve 24 VAC	1 each	
	101063229	¾" Y Disc Filter 120 Mesh	1 each	
	101063228	¾" Y Screen Filter	1 each	
	101081528	½" -8 gpm Pressure Regulator	1 each	
	101000187	¾" True Union Ball Valve		
	101080152	¾" NPT Single Union Ball valve	1 each	
11.	101105728	Supertif SOL Punch Inserter Tool 2.0mm	1 each	
12.	101069376	½" Continuous Acting Air Relieve Valve	1 each	

Calculating Flow Zone Rate

Calculating the flow zone rate is crucial in designing and managing an efficient irrigation system. The flow zone rate helps determine the correct tubing size and ensures that the irrigation system delivers the right amount of water evenly across all the drippers in a specific zone. An accurate zone flow rate prevents issues such as:

- Under-irrigation: Leading to inadequate water delivery and potential crop stress.
- Over-irrigation: Causing water wastage, potential runoff, and soil erosion.
- System Inefficiency: Resulting in excess water usage, increased energy consumption and higher operational costs.

How to Calculate Flow Zone Rate
The formula to calculate the flow zone rate is as follows:

Flow Zone Rate (GPM) = (Dripper Flow Rate ÷ 60) × Number of Drippers

Practical Application:
Once you have the flow zone rate, you can use it to select the proper pvc and tubing size for your irrigation system, ensuring that your system operates efficiently and meets the water needs of your crops or plants.

Recommended Tubing Sizing

Ensure that the correct tubing size is chosen based on the expected flow rate, which is critical for maintaining system efficiency and preventing issues like excessive pressure loss or insufficient water delivery in an irrigation system

Flow Zone Total	Tubing Size
Schedule 80 PVC	
3 GPM	½″
6 GPM	3/4″
10 GPM	1″
18 GPM	1¼″
26 GPM	1½″
40 GPM	2″

Flow Zone Total	Tubing Size
Schedule 40 PVC	
5 GPM	½″
8 GPM	3/4″
13 GPM	1″
22 GPM	1¼″
35 GPM	1½″
52 GPM	2″

Contact Us

For additional assistance in selecting the right tubing and products, please contact us.

Scan for Contact

Understanding Friction Loss and Velocity in Supply Tubing

In indoor irrigation systems, maintaining consistent pressure across all emitters is essential for even water and nutrient delivery. This chart helps you select the right supply tubing size by showing how flow rate (gph) affects friction loss (pressure loss per 100 feet of tubing) and velocity (how fast water moves through the tubing). Choosing the correct tubing ensures balanced pressure, prevents water hammer, and reduces system wear. Use the chart below to match your total flow rate and tubing size, keeping water velocity under 5 feet per second (fps) for optimal performance.

Why Velocity Matters

If velocity is too high, you'll get:

- Uneven pressure across emitters.
- Noisy lines or vibration.
- Water hammer (pressure spikes when valves open/close).
- Wear and tear on fittings and tubing.

Friction Loss (psi/100) - how much pressure you'll lose per 100ft.

Velocity (fps) - how fast water moves throuh that tubing.

If your velocity is over 5 fps, move to the next larger tubing size.

Rivulis Supply Tubing Friction Loss and Velocity

	520x620		600x700		620x710	
	0.52		0.60		0.62	
	Friction Loss	Velocity	Friction Loss	Velocity	Friction Loss	Velocity
GPM	psi/100	fps	psi/100	fps	psi/100	fps
1	1.26	1.51	0.64	1.13	0.55	1.06
2	4.25	3.02	2.15	2.27	1.84	2.12
3	8.63	4.53	4.37	3.40	3.74	3.18
4	14.28	6.04	7.24	4.53	6.19	4.25
5	21.10	7.54	10.69	5.67	9.15	5.31
6	29.03	9.05	14.71	6.80	12.59	6.37
7	38.02	10.56	19.27	7.93	16.49	7.43
8			24.34	9.07	20.83	8.49
9			29.91	10.20	25.60	9.55
10					30.78	10.61

Green Boxes: Not Recommended to use tubing above 5 fps

Rivulis Supply Tubing Friction Loss and Velocity

	710x820		830x940		1060x1200	
	0.71		0.83		1.06	
	Friction Loss	Velocity	Friction Loss	Velocity	Friction Loss	Velocity
GPM	psi/100	fps	psi/100	fps	psi/100	fps
1	0.29	0.81	0.14	0.59	0.04	0.36
2	0.97	1.62	0.46	1.18	0.14	0.73
3	1.97	2.43	0.94	1.78	0.29	1.09
4	3.25	3.24	1.55	2.37	0.48	1.45
5	4.81	4.05	2.29	2.96	0.72	1.82
6	6.61	4.86	3.15	3.55	0.99	2.18
7	8.66	5.67	4.12	4.15	1.29	2.54
8	10.94	6.47	5.21	4.74	1.63	2.90
9	13.44	7.28	6.40	5.33	2.00	3.27
10	16.17	8.09	7.70	5.92	2.41	3.63
12	22.24	9.71	10.59	7.11	3.31	4.36
14	29.13	11.33	13.87	8.29	4.34	5.08
16			17.53	9.48	5.48	5.81
18			21.54	10.66	6.74	6.54
20					8.10	7.26
25					11.98	9.08
30					16.48	10.89

Green Boxes: Not Recommended to use tubing above 5 fps

Example:
Your system uses 8 gph total through 820x710 tubing.

Velocity = 6.47 fps →Too high!

Switch to 940x830 tubing →
Velocity = 4.74 fps

Delivering Water & Nutrients to the Root Zone

The **Supertif Assembly** functions as the primary point of distribution delivering water and nutrients directly to the root zone. This targeted delivery ensures that the plants receive the precise amount of hydration and nourishment required for optimal growth. By focusing on the root zone, the Supertif Assembly not only promotes efficient uptake of water and nutrients but also minimizes waste and ensures uniform growth across the cultivation area.

Dripper Options

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Supertif Conic

Part Number:
201015533

Supertif Side Outlet

Part Number:
101003191

Octa-Bubbler

Part Number:
101084470

Stake Options

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Barpeg

Part Number:
Black: 101071825
Gray: 101008233

Snapeg

Part Number:
Gray: 201000247

DripPeg

Part Number:
Gray: 201000248

Tubing & Accessories

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Micro Tubing

Part Number:
White: 101013009

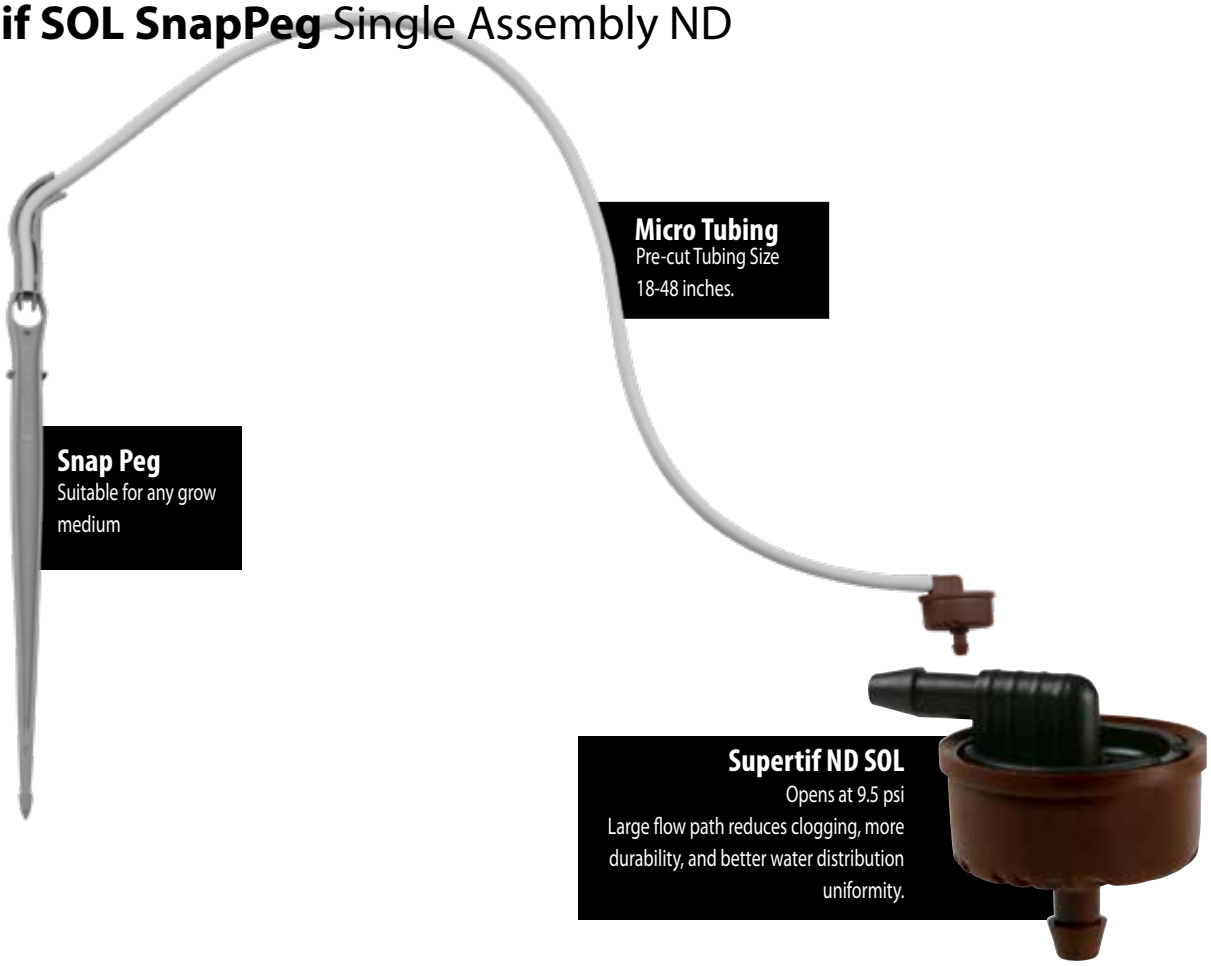
Punch Insert

Part Number:
SOL: 101105728

Goof Plug

Part Number:
101003314

Supertif SOL SnapPeg Single Assembly ND



Ordering Chart

Part Number	Color	GPH	Dripper	Stake	Tubing Length	Package QTY	Box QTY
101092490	Brown/LT. Gray	.29	Side Outlet (SOL)	Snap Peg	18″	1 Bundle (25 Units)	750 Units
101072542					24″		500 Units
101085191					30″		
101073846					36″		
101074641					48″		300 Units
101068077	Brown/LT. Brown	.53	Side Outlet (SOL)	Snap Peg	18″	1 Bundle (25 Units)	750 Units
101111319					24″		500 Units
101069979					30″		
101072234					36″		
101091916					48″		300 Units
101067321	Brown/Black	1.02	Side Outlet (SOL)	Snap Peg	18″	1 Bundle (25 Units)	750 Units
101067322					24″		500 Units
101067323					30″		
101069294					36″		
					48″		300 Units

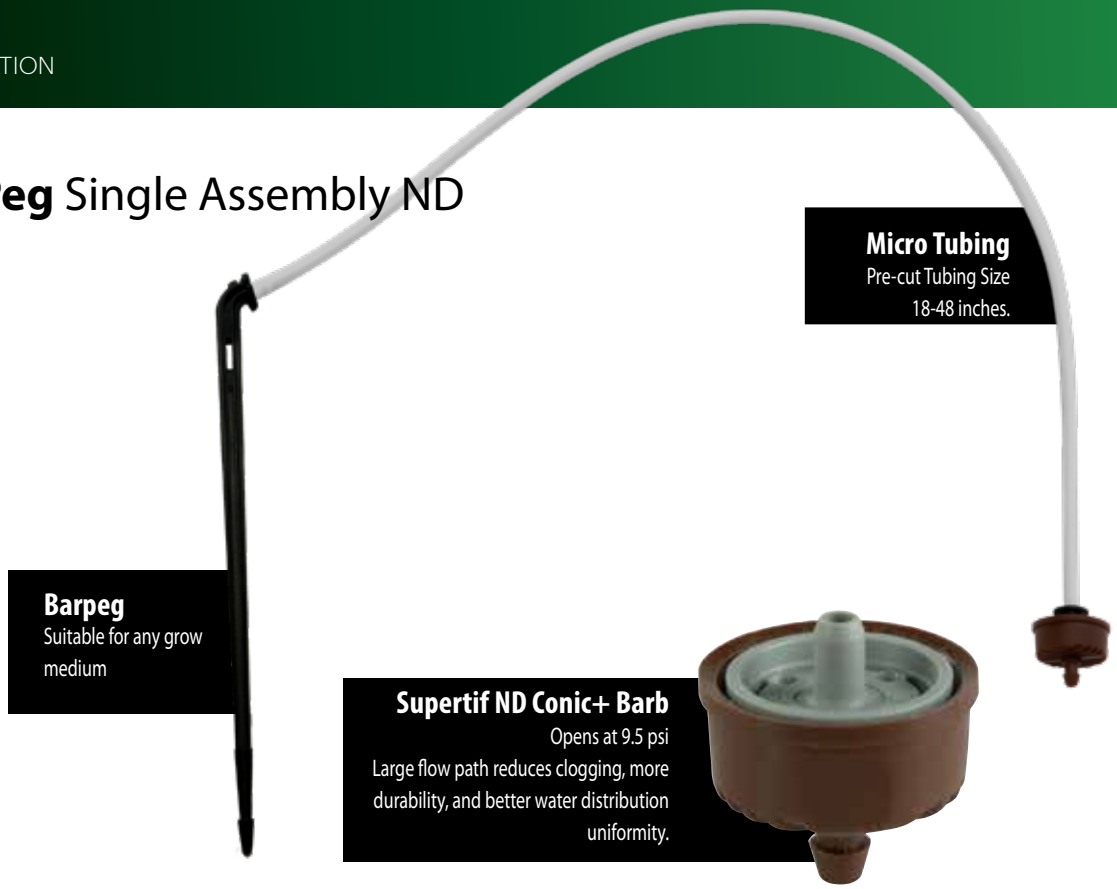
Supertif SOL SnapPeg Single Assembly ND

Ordering Chart

Part Number	Color	GPH	Dripper	Stake	Tubing Length	Package QTY	Box QTY
101103381	Brown/LT. Gray	.29	Conic	SnapPeg	18″	1 Bundle (25 Units)	750 Units
101022829					24″		500 Units
101075821					30″		
101103213					36″		
101103209					48″		300 Units
101068673	Brown/LT. Brown	.53	Conic	SnapPeg	18″	1 Bundle (25 Units)	750 Units
101055306					24″		500 Units
101074833					30″		
101068235					36″		
101074642					48″		300 Units
101103244	Brown/Black	1.02	Conic	SnapPeg	18″	1 Bundle (25 Units)	750 Units
101041972					24″		500 Units
101102032					30″		
101067280					36″		
101103245					48″		300 Units
101068203	Brown/Green	2.06	Conic	SnapPeg	18″	1 Bundle (25 Units)	750 Units
101068204					24″		500 Units
101074842					30″		
101071191					36″		
101100594					48″		300 Units

+irrigation

Supertif BarPeg Single Assembly ND



Ordering Chart

Part Number	Color	GPH	Dripper	Stake	Tubing Length	Package QTY	Box QTY
101078337	Brown/LT. Gray	.29	Conic	BarPeg	18″	1 Bundle (25 Units)	750 Units
101078333					24″		500 Units
101078334					30″		
101078335					36″		
101078336					48″		300 Units
101078338	Brown/LT. Brown	.53	Conic	BarPeg	18″	1 Bundle (25 Units)	750 Units
101078339					24″		500 Units
101071826					30″		
101078340					36″		
101078341					48″		300 Units
101100165	Brown/Black	1.02	Conic	BarPeg	18″	1 Bundle (25 Units)	750 Units
101100141					24″		500 Units
101100140					30″		
101100139					36″		
101100138					48″		300 Units
101101911	Brown/Green	2.06	Conic	Thin Bar Peg	18″	1 Bundle (25 Units)	750 Units
101101912					24″		500 Units
101101913					30″		
101101915					36″		
101101914					48″		300 Units

DripPeg Multi-Assembly

2-Way Assemblies

4-Way Assemblies

Supertif
Opens at 9.5 psi
Large flow path reduces clogging, more durability, and better water distribution uniformity.

Conic Dripper Pg. 15

Ordering Chart

Part Number	Color	Stake	Adapter	Tubing Length	Package QTY	Box QTY
2-Way Flat Assembly						
101067324	Gray	DripPeg	Flat	18″	1 Bundle (25 Units)	250
201000253				24″		200
101072868				30″		200
101085414				36″		100
101085415				48″		
4-Way Flat Assembly						
101067761	Gray	DripPeg	Flat	18″	1 Bundle (25 Units)	125
201000254				24″		100
101038460				30″		100
101067748				36″		100
101075249				48″		75

SuperTif Pressure Compensating Dripper

Flexible applications with multiple configurations to match irrigation requirements. The built-in no-drain diaphragm, eliminates the draining of water when the system is shut off. The additional self-activating flushing mechanism provides clog resistance.

Model: Supertif ND

Flow Rate:	.29, .53, .58, 1.02, 2.06 gph
Opening Pressure:	4.3 psi
Operating Pressure:	9.5 - 50 psi
Sealing Pressure:	2.1 psi

Model: Supertif NDH

Flow Rate:	.42, .82, 2.91 gph
Opening Pressure:	7.1 psi
Operating Pressure:	17 - 50 psi
Sealing Pressure:	5.0 psi

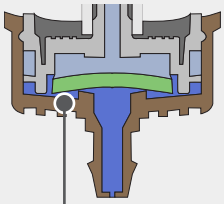
Model: Supertif NDH MOP*

Flow Rate:	.42, .82, 1.40 gph
Opening Pressure:	8.5 psi
Operating Pressure:	14.2 - 50 psi
Sealing Pressure:	2.8 psi

Model: Supertif ND MOP*

Flow Rate:	.28, .29, 1.02 gph
Opening Pressure:	10 psi
Operating Pressure:	14.2 - 50 psi
Sealing Pressure:	2.5 psi

Designed with a mechanism that prevents contaminants from entering the dripper when flushing the line at 9psi. After system flushing, when operating the system at 14.2 to 50psi, only clean water passes through the dripper reducing plugging and ensuring the specified flow rate.



The membrane covers the sealing rim preventing water from entering the dripper flushed

SuperTif Dripper Options

Side Outlet (SOL) or Conic+Barb

Use For Two-Way & 4-Way Assembly

Part Number	Dripper Type	GPH	Color	Package QTY
Supertif Conic+Barb Dripper - Low Opening Pressure				
201015528	ND Conic+Barb	.29	Brown/Lt. Gray	1 Bag (1000 Units) Carton QTY (4000 Units)
201015530		.53	Brown/Lt. Brown	
201015531		.58	Brown/Brown	
201015533		1.02	Brown/Black	
201015534		2.03	Brown/Green	
201015532	NDH Conic +Barb	.82	Brown/Blue	
201015535		2.91	Brown/Red	
201015527		6.6	Black/Orange	
101105728	**2mm punch inserter**			

Part Number	Dripper Type	GPH	Color	Package QTY
Supertif ND Side Outlet (SOL)				
101003187	ND SOL	.29	Brown/Lt. Gray	1 Bag (1000 Units) Carton QTY (4000 Units)
201015967		.53	Brown/Lt. Brown	
101003191		.58	Brown/Brown	
101003195		1.2	Brown/Black	
101105728	**2mm punch inserter**			

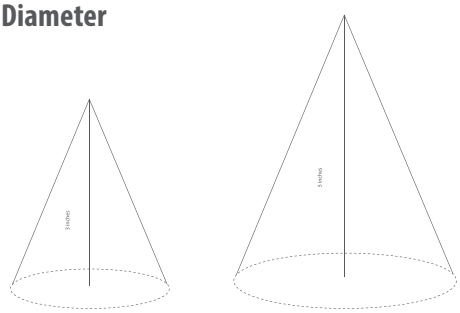
S1000 Pressure Compensating Micro Spray Stake

The S1000 PC Micro Spray Stake is a pressure-compensating irrigation solution designed for precise and uniform water delivery. Ideal for indoor or outdoor cultivation, it features adjustable spray patterns of 220° or 360°, low flow rates of 2.91 or 6.6 GPH, and excellent clog resistance for consistent performance across all plants. Its compact, no-drain design is perfect for sloped environments, while the removable nozzle ensures easy cleaning. This spray stake minimizes water channeling by delivering a gentle, wide coverage, making it suitable for various container sizes and substrates, supporting healthy and uniform plant growth.

Available Configurations

Stake Height:	7"	Number of Streams:	220º: 8 Streams (101071764)
Spray Pattern:	220º, 360º		360º: 12 Streams (101003310)
Flow Range:	2.91, 6.6 gph		
Operating Pressure:	14 - 50 psi		

Spray Diameter



Ordering Chart

Part Number	Description
101071477	S1000 PC Micro Spray Stake 2200 2.91 GPH NDH BLK 36 IN
101074707	S1000 PC Micro Spray Stake 3600 2.91 GPH NDH BLK 36 IN
101108795	S1000 PC Micro Spray Stake 2200 6.6 GPH BLK 36 IN
101108796	S1000 PC Micro Spray Stake3600 6.6 GPH BLK 36 IN
101107795	S1000 PC Micro Spray Stake 3600 6.6 GPH BLK 48 IN

Octa-Bubbler

The Octa-Bubbler is an eight-outlet, pressure-compensating manifold designed for efficient and uniform water delivery, with flow options of 2, 6, 10, and 20 GPH per outlet. Ideal for larger cannabis operations or setups with high plant counts, it simplifies irrigation by providing multiple connection points to pots or grow tables. Available in both pressure-compensating and non-pressure-compensating models, it ensures precise hydration while optimizing irrigation efficiency. Its durable, UV-resistant design makes it suitable for both above- and below-ground use, supporting healthy growth and maximizing yields.

101084471

101084473

101084470

101084472

Ordering Chart

Part Number	Model #	Description	Bag QTY	Box QTY
Octa-Bubbler - 8 Swivel Ports, Pressure Compensating, 1/2" FPT Inlet, .250" Barbed Outlet				
101084470	OCT816	Octa-Bubbler 2 GPH per outlet, Blue low flow bubbler	10	30
101084472	OCT856	Octa-Bubbler 6 GPH per outlet, Black medium flow bubbler	10	30
101084473	OCT896	Octa-Bubbler 10 GPH per outlet, Red high flow bubbler	10	30
101084471	OCT8186	Octa-Bubbler 20 GPH per outlet, Green extra high flow bubbler	10	30
101082140		100' coil 1/4" tubing	1	
101084426		S2 stake	25	500

Specification Details

FLow Control Part #	Color	Operating Pressure	Flow / Outlet	Ports	Inlet Size
101084467	Blue	20-60 PSI	2 GPH	8	1/2"
101084469	Black		6 GPH		
101084490	Red		10 GPH		
101084468	Green		20 GPH		

Flow Control 72500623

F6400 Plastic Screen Filter

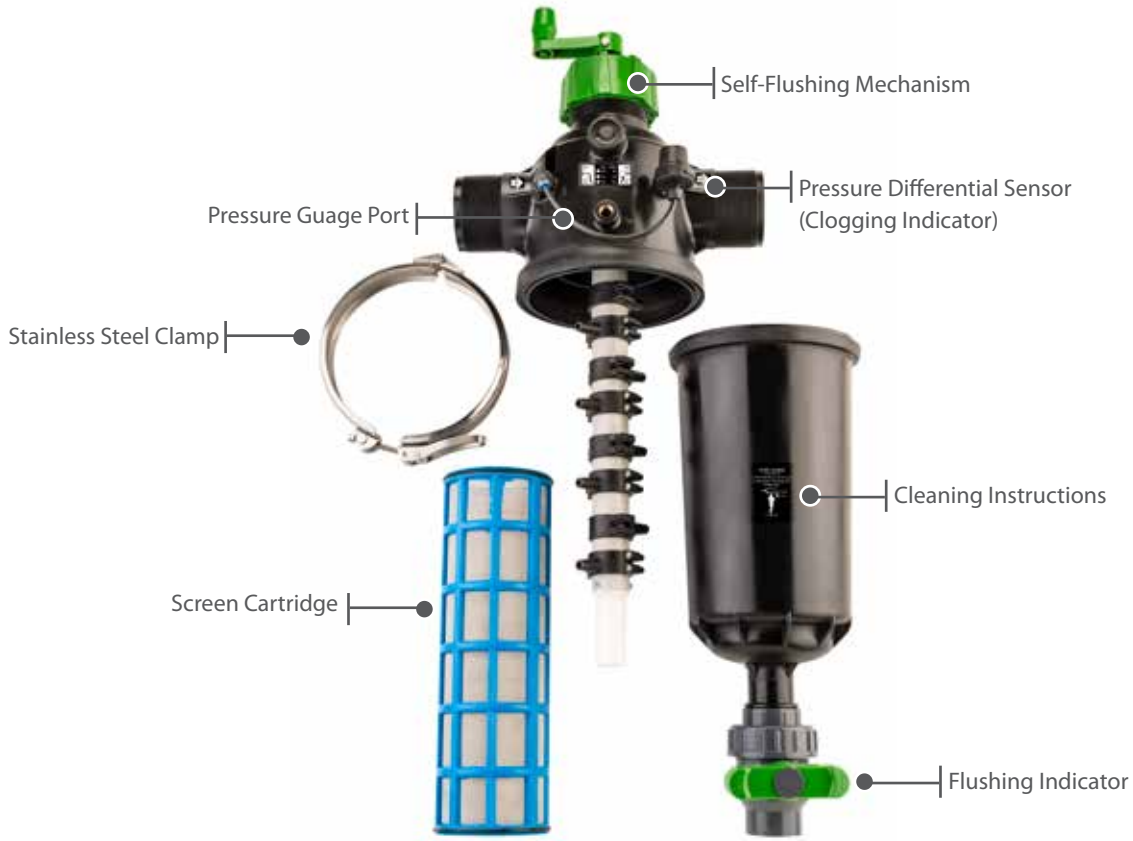
Reliable filtration is essential in controlled-environment irrigation, where nutrient consistency and system uptime directly impact crop performance. The Rivulis F6400 Semi-Automatic Screen Filter delivers dependable pre-filtration for indoor cultivation facilities with a durable, easy-to-maintain design. Its stainless-steel screen, clogging indicator, and simple flush operation help protect emitters from debris and reduce biofilm accumulation while minimizing maintenance time for busy grow teams. Built to withstand frequent flushing and variable water quality, the F6400 provides a trustworthy first line of defense to keep your irrigation system running smoothly and your plants receiving clean, consistent water.

Available Configurations

Diameter:	2″
Flow Rate:	0-176 gpm
Max Working Pressure:	150 psi
Minimum Flushing Pressure:	22 psi

Ordering Chart

Part Number	Description	Body Style	Inlet/Outlet Size (in)	Connection Type	Screen Mesh (micron)	Max Flow Rate
101047725	(2″) | 130 mic/120 mesh | Red Screen Catridge	In Line	2″	NPT	130/200	176



Efficient Water and Nutrient Distribution Network

The right tubing and fittings ensure efficient water flow and nutrient delivery to your plants. Our white PE tubing and fittings are growers choice for its durability and adaptability, ensuring a reliable and consistent water supply. We understand the varied needs of cultivators, offering tubing and fittings in 17mm, 3/4", and 1" options to accommodate different scales and complexities of indoor grow setups.

Pipe & Tubing

PE Tubing

IPS Flexible Vinyl Pipe

Power-Loc Fittings

PL - Elbow

PL - Tee

PL - Swivel Tee

Male Adapter

Coupling

Bushing Adapter

Pressure Guage

Manual Flush Valve

PL -Manual Flush Valve

Lateral Flush Valve

+irrigation

Delivering Consistent Flow, Uniform Distribution, and Reliable Performance

Matching Tubing Size with Fitting Series

Selecting the components needed for your specific set-up is made simple. In the charts below, we matched tubing size with the right fittings, so you can focus on dialing in potency and yield of your crops. Choose between 17mm, 16mm, 3/4" or a 1" set-up.

Fitting Size Selection Chart - Nominal Tubing Size

Fitting Series	Acceptable I.D.		Acceptable Wall Thickness	
	Inches	Millmeters	Inches	Millmeters
50	0.500 to 0.580	12.7 to 14.7	0.035 to 0.055	0.89 to 1.40
55	0.520 to 0.620	13.2 to 15.7	0.045 to 0.055	1.14 to 1.40
70	0.665 to0.765	16.9 to 19.4	0.035 to 0.055	.89 to 1.40
80	0.790 to 0.845	20.1 to 21.5	0.045 to 0.065	1.14 to 1.65
100	1.035 to 1.075	26.3 to 27.3	0.062 to 0.075	1.57 to 1.91

17mm White PE Tubing & Fittings - PL 55

Part Number	Model Number	Description	Roll Length (ft)	Package QTY
101085026		17MM WHITE PE Tubing	100	-
101085027		17MM WHITE PE Tubing	250	-
101085028		17MM WHITE PE Tubing	500	-
101085029		17MM WHITE PE Tubing	1000	-
101084376	PL-55-P3T	Power-Loc Tee	-	25
101084378	PL-55-PELL	Power-Loc Elbow	-	25
101084386	PL-55-P 3/4-MA	Power-Loc Male Adapter	-	10
101083930	PL-55-PEF	Power-Loc Manual Flush Valve	-	10
101084379	PL-55-PC	Power-Loc coupling	-	25
101084385	PL-55-PST	Power-Loc Tee x 3/4" FHS	-	10
101084443	440VLBB	1/2" Insert Barb x Barb Insert	-	10
101107500		Automatic Flush Valve	-	10
101082387		Pressure Gauge Bushing Adapter (Thread onto Power-Loc Gauge Tee)	-	10

Matching Tubing Size with Fitting Series

3/4" White PE Tubing & Fittings - PL 80

Part Number	Model Number	Description	Roll Length (ft)	Package QTY	Stock Status
101081982		3/4" 820x940 White PE Tubing	1000	-	MTO
101081978		3/4" 820x940 White PE Tubing	500	12	MTS
101079776	PL-80-P3T	Power-Loc Tee bag of 25	-	150 (Case)	
101079777	PL-80-PELL	Power-Loc Elbow bag of 25	-	25	
101079767	PL-80-P 3/4 MA	3/4" MA Power-Loc Male Adapter bag of 25	-	10	
101079770	PL-80-PC	Power-Loc Coupling bag	-	10	
101079780	PL-80-PETC	Power-Loc with 3/4" FHT Cap bag 25	-	10	
101079763	PL-80-PST	Power-Loc Tee x 3/4" FHS EA	-	10	
101084493	770VLBB	3/4" Insert Barb x 3/4" insert Barb 820 tubing	-	10	
101082387		Pressure Gauge Bushing Adapter (Thread onto Power-Loc Gauge Tee)	-	10	

1" White PE Tubing & Fittings - PL 100

Part Number	Model Number	Description	Roll Length (ft)	Package QTY	Stock Status
101081980		1200X1060-PE UV WHITE	500	-	MTO
101079779	PL-100-P3T	Power-Loc Tee bag of 25	-	25	
101079778	PL-100-PELL	Power-Loc Elbow bag of 25	-	25	
101079788	PL-100-P 3/4-MA	Power-Loc Male Adapter bag of 25	-	25	
101079774	PL-100-PC	Power-Loc coupling bag of 25	-	25	
101079773	PL-100-PST	Power-Loc Tee x 3/4" FHS EA	-	10	
101082505	PL-100-PETC	Power-Loc with 3/4" FHT Cap bag 25	-	25	
101079791		1" Power-Loc x Male Adapter 1" npt		25	
101084494	880VLBB	1" Insert Barb x 3/4" insert Barb 820 tubing 1.06" ID	-	10	
101082387		Pressure Gauge Bushing Adapter (Thread onto Power-Loc Gauge Tee)	-	10	
101079191	PL-100	1" PL100 Male adapter	-	10	
101079775		1" poly to 3/4" Socket PVC	-	10	

Power-Loc Coupling

16mm PE Tubing & Fittings - PL-50

Part Number	Model Number	Description	Roll Length (ft)	Package QTY
101091558		16MM WHITE PE Tubing	500	MTO
101081976		16MM WHITE PE Tubing	1000	MTO
101079717	PL-50-P3T	Power-Loc Tee	-	25
101079720	PL-50-PELL	Power-Loc Elbow	-	25
101079724	PL-50-P 3/4-MA	Power-Loc Male Adapter	-	25
101082405	PL-50-PEF	Power-Loc Manual Flush Valve	-	10
101079721	PL-50-PC	Power-Loc coupling	-	10
101079718	PL-50-PST	Power-Loc Tee x 3/4" FHS	-	10
101082403	PL-50-PETC	Power-Loc x 3/4" FHT Thread cap	-	10
101082387		Pressure Gauge Bushing Adapter (Thread onto Power-Loc Gauge Tee)	-	10

17mm Brown PE Tubing (Use with Fittings - PL-55)

Part Number	Description	Roll Length (ft)
101082132	17MM BROWN PE Tubing 100FT	100
101082133	17MM BROWN PE Tubing 250FT	250
101082134	17MM BROWN PE Tubing 500FT	500
101082135	17MM BROWN PE Tubing1000FT	1000

16mm Black PE Tubing (Use with Fittings - PL-50)

Part Number	Description	Roll Length (ft)
101082123	16mm Black Poly Tubing 100' coil	100
101082124	16mm Black Poly Tubing 500' coil	500
101081966	16mm Black Poly Tubing 1000' coil	1000

3/4" Black PE Tubing & Fittings - PL-80

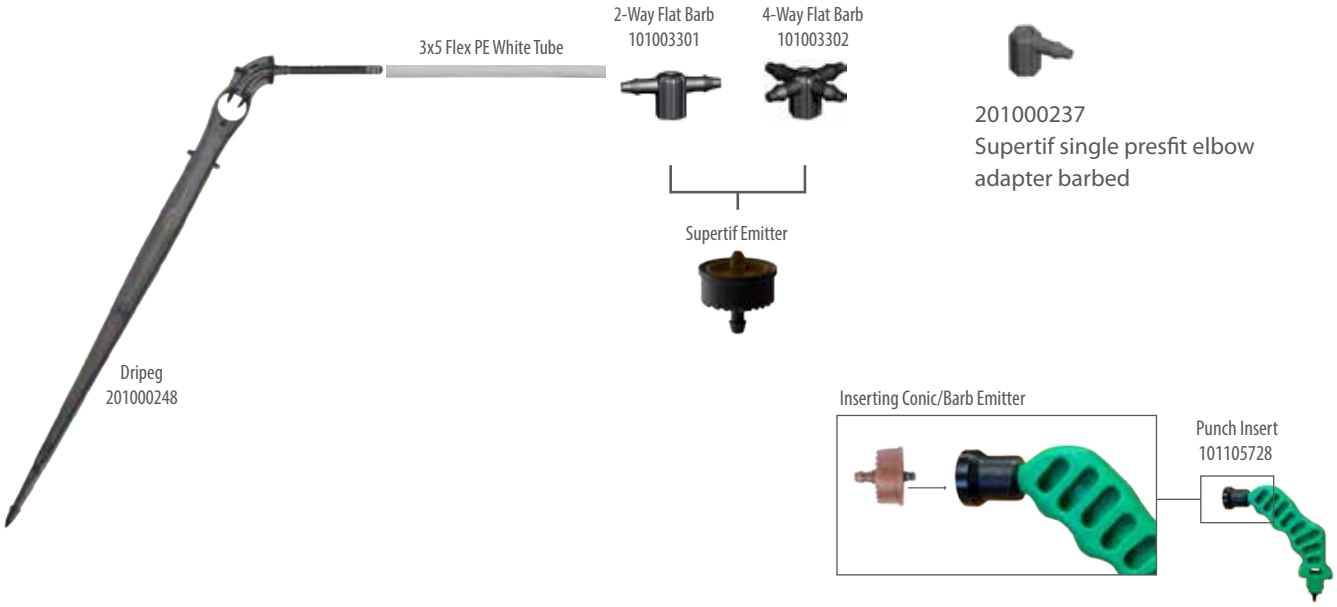
Part Number	Description	Roll Length (ft)
101082119	3/4" 820x940 Poly Black Tubing	100
101082120	3/4" 820x940 Poly Black Tubing	250
101081921	3/4" 820x940 Poly Black Tubing	500
101081917	3/4" 820x940 Poly Black Tubing	1000

1" Black PE Tubing (Use with Fittings - PL-100)

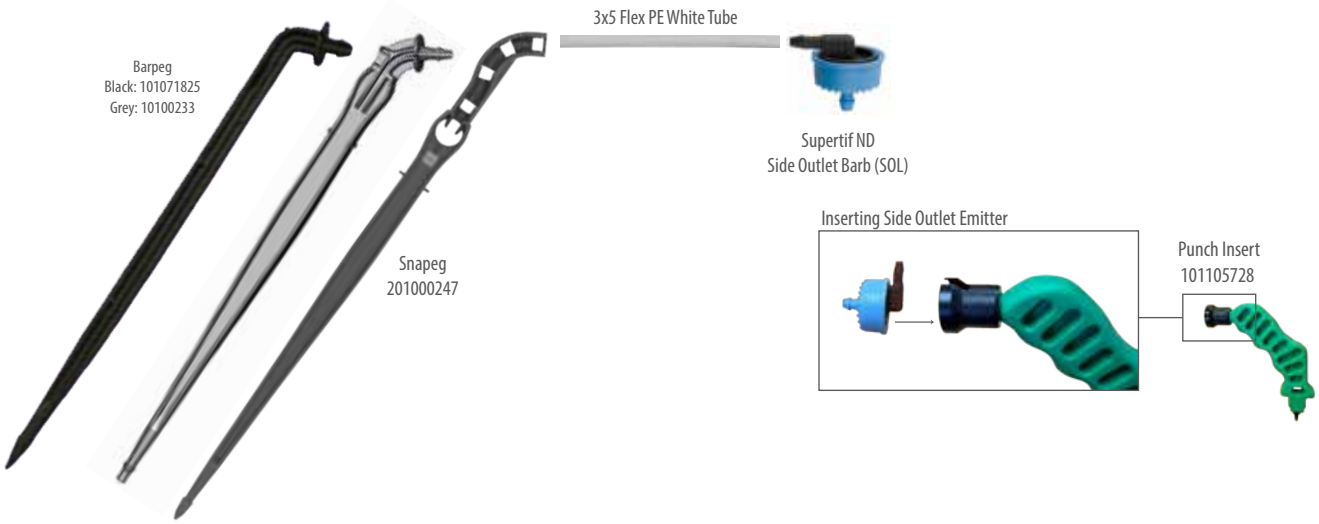
Part Number	Description	Roll Length (ft)
101085024	1200X1060-PE 500FT UV Black	500

Dripper Assembly Configurations

Streamline Installation and Labor Efficiency:
Pre-assembled drippers offer a significant advantage in terms of installation time and labor savings. Each unit comes factory-assembled with pegs and tubing, ensuring that your irrigation setup is quick and hassle-free.



Versatile Configurations:
With a variety of configurations including 2-way and 4-way stackable and barbed connectors, as well as options for different flow equalizing stakes like the Polytif and Snapeg, the Supertif dripper assemblies can be tailored to meet specific irrigation needs. This versatility ensures that you can adapt the system to different crop layouts and soil conditions.



Dripper Assembly Parts

Tubing

Flexible PE tubing delivers reliable, kink-free water flow for connecting drippers in indoor cultivation systems.

Part Number	Description	Roll Length (ft)	Package QTY
101013009	3 x 5 Flex PE White Tubing	1640	1
101022832	3 x 5 Flex PE White Tube 18"		25
101003336	3 x 5 Flex PE White Tube 24"		25
101022563	3 x 5 Flex PE White Tube 30"		25
101022564	3 x 5 Flex PE White Tube 36"		25
	3 x 5 Flex PE White Tube 48"		25

Stakes

Stakes anchor the delivery point into the substrate, keeping water distribution stable and consistent.

Part Number	Description	Package QTY
201000247	Gray Snap Peg for Single Assembly	1100
101071825	Black BarPeg for Single Assembly	1000
101008233	Gray BarPeg for Single Assembly	1200
201000248	Drip Peg for 2-way / 4-way Assembly	1000

2-Way and 4-Way Manifolds

Manifold adapters split a single dripper outlet into multiple flow paths, enabling efficient water distribution to two or four plants from one emitter.

Part Number	Description	Package QTY
101003301	2-Way Flat Adapter (Manifold)	500
101003302	4-Way Flat Adapter (Manifold)	500
101084444	Goof Plug For 1/8" & 1/4" bag of 100 units	100
101003314	Goof Plug 2.0mm (Supertif) bag of 1000	1000
101065387	Supertif SOL W/3x5 Tube Punch & Inserter 2.0mm	1
201000237	Supertif Single Presfit Elbow Adapter Barbed	500

Precision Flow Control at Each Table

To achieve precision in irrigating each table, the Filter, Valve, and Pressure Regulator unit is essential. This unit is specifically designed to control both irrigation and nutrient flow to each table. Especially when cultivating different strains in the same room, this table control becomes paramount, allowing growers to customize water and nutrient feed according to the unique requirements of each strain. The unit adeptly opens and closes the line as needed, allowing precise and effective nutrient delivery. With this system in place, you're not merely hydrating plants - you're providing individualized care to every table, ensuring each strain thrives under its optimal conditions.

Control Valve

Irrigation Control Valve

Part Numbers:
3/4" -101108445
1" 101075694

Filter Options

Screen

Part Numbers:
3/4' - 101063228
1" - 101099147

Disc

Part Numbers:
3/4' - 101063229
1" - 101099149

Replacement Disc

Part Number:
101064115

Pressure Regulator

Pressure Regulator (40 psi)

Part Numbers:
3/4' - 101079918
1" - 101079919

Pressure Regulator (6 psi)

Part Number:
101081510

1/2" Continuous Acting Air Relief Valve

Part Number:
101069376

Single Union Ball Valve

Part Numbers:
3/4' - 101080152
1" - 101111213

True Union Ball Valve

Part Numbers:
3/4' - 101000187
1" - 101000189

Precision Flow Control at the Table

Our integrated flow control system, which includes a high-performance valve, filter, and pressure regulator, offers unparalleled customization for cannabis growers. This system allows for the fine-tuning of water and nutrient feed to meet the unique requirements of each strain, ensuring that every plant receives the exact care it needs.

Key Unit Components:

Precision Valve: The core of our system, the valve provides precise control over the flow rate, allowing you to adjust the water and nutrient delivery with exceptional accuracy. Whether you're managing the needs of a single strain or multiple varieties, this valve ensures consistent and reliable flow control at each table.

Sizes:	3/4",1", 1 ½", 2"	Flow Range:
Function:	2 Way NC	3/4" : .01 to 35 GPM
Pressure Range:	4.35 to 145 psi	1" : .01 to 40 GPM
Feature:	Manual Overide	1½" : 0.25 to 130 GPM
Temperature:	Max 140 °F (60 °C)	2" : 0.25 to 170 GPM

Advanced Filtration: Our unique filter body design includes dual 2 ¼" ports, giving you clear visibility into both upstream and downstream pressure. This allows growers to instantly identify when service is needed—protecting the system before performance drops. Combined with high-efficiency filtration, it keeps water and nutrients debris-free, prevents clogs, and ensures uniform distribution across every table. Competitors simply can't match this level of insight and control.

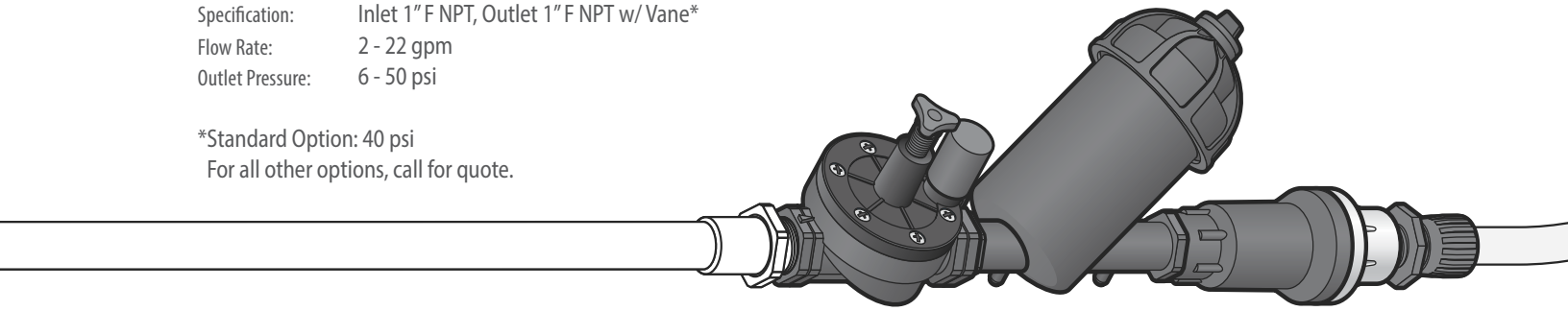
Specification:	Threaded, ¾" - 2" Y Filter
Flow Rate:	0.01 -110 gpm
Max Pressure	116 psi
Mesh/Micron:	120/130 (Red)

Pressure Regulation: The pressure regulator maintains a consistent outlet pressure—even when inlet pressure fluctuates—giving you one less component to worry about. By keeping pressure stable, it ensures your drippers operate exactly as intended to give you the same yields, delivering even, reliable water distribution across every plant.

Specification:	Inlet ¾" F NPT, Outlet ¾" F NPT w/ Vane*
Flow Rate:	0.5 - 8 gpm
Outlet Pressure:	40 psi

Specification:	Inlet 1" F NPT, Outlet 1" F NPT w/ Vane*
Flow Rate:	2 - 22 gpm
Outlet Pressure:	6 - 50 psi

*Standard Option: 40 psi
For all other options, call for quote.



Selecting the Best Flow Control Unit

When choosing the right unit, start with your pipe size. Next, consider the type of nutrients you use for the best filter selection at the table. For growers using powder or solid nutrients, the disc filter is recommended. On the other hand, if you use liquid nutrients, the screen filter will serve you best. This tailored approach ensures an efficient and suitable setup for your cultivation needs.

Disc Filter Unit

3/4" Valve, Disc Filter, PR

Part Number	Description	Package QTY
101108445	3/4" Irrigation Control Valve 24VAC Rivulis	1
101063229	3/4" Y Filter 120 Mesh (Disc)	1
101079918	3/4" 40 PSI Pressure regulator	1
101080964	3/4" x Close Nipple	1

1" Valve, Disc Filter, PR

Part Number	Description	Package QTY
101075694	1" Irrigation Control Valve 24VAC Rivulis	1
101099149	1" Y Filter 120 mesh (Disc)	1
101079919	1" 40 PSI Pressure regulator	1
101111342	1" x Close Nipple	1
	1" x 3/4" Bushing Thread x Thread	1

1 1/2" Valve, Disc Filter

Part Number	Description	Package QTY
Call to Order	1 1/2" Control Valve 24VAC Rivulis	1
101083958	1 1/2" Spin Clean Filter 120 mesh	1

2" Valve, Disc Filter

Part Number	Description	Package QTY
Call to Order	2" Control Valve 24VAC Rivulis	1
101083967	2" Spin Clean Filter 120 mesh	1

Selecting the Best Flow Control Unit

Screen Filter Unit

3/4" Valve, Screen Filter, PR

Part Number	Description	Package QTY
101108445	3/4" Control Valve 24VAC Rivulis	1
101063228	3/4" Y Filter 120 Mesh (Screen)	1
101079918	3/4" 40 PSI Pressure Regulator	1
Call to Order	12vDC Latching Solenoid	1

1" Valve, Screen Filter, PR

Part Number	Description	Package QTY
101075694	1" Control Valve 24VAC Rivulis	1
101099147	1" Y Filter 120 Mesh (Screen)	1
101079919	1" 40 PSI Pressure Regulator	1
Call to Order	12vDC Latching Solenoid	1

1 1/2" Valve, Screen Filter

Part Number	Description	Package QTY
Call to Order	1 1/2" Control Valve 24VAC Rivulis	1
101083958	1 1/2" Spin Clean Screen Filter	1

2" Valve, Screen Filter

Part Number	Description	Package QTY
Call to Order	2" Control Valve 24VAC Rivulis	1
101083967	2" Spin Clean Filte	1

Stabilize System Hydraulics and Protect Pipeline Integrity

The Rivulis Mini Air Valve (Continuous Acting Air Vent) is engineered to maintain hydraulic balance across pressurized irrigation networks. It continuously releases accumulated air during system operation and admits air during shutdown or drainage, preventing vacuum formation and preserving system pressure equilibrium.

By managing air entry and discharge, the valve improves hydraulic performance, minimizes water hammer, cavitation and ensures smooth, energy-efficient operation across all main and sub-main lines.

Hydraulic Benefits

- Pressure Stability – Eliminates trapped air pockets that restrict flow and create erratic pressure fluctuations.
- Vacuum Relief – Admits air during line emptying to prevent collapse and negative-pressure stress on pipes and fittings.
- Flow Continuity – Maintains steady water movement through manifolds and long pipeline runs, ensuring consistent hydraulic response.
- Reduced Water Hammer & Cavitation – Mitigates sudden pressure surges at system start-up and shut-down, protecting your system.
- Energy Efficiency – Improves overall flow performance, reducing friction losses and pump strain in recirculating indoor systems.

System Integration

Use the Mini Air Valve as part of a complete hydraulic management system. In indoor environments, where pumps are responsible for delivering water and nutrients, this air valve acts as low-cost insurance, preventing trapped air that forces pumps to work harder than they should. When paired with filters, pressure regulators, and lateral flush valves, it supports stable flow conditions and optimal hydraulic efficiency throughout the entire network.

Installation Recommendation

Install the Mini Air Valve at key hydraulic high points—such as at the beginning and end of mainlines, before control valves, and on manifolds feeding multiple zones.

Part Number: 101069376

Mini-Air Valve: Continuously releases trapped air to maintain smooth, stable flow throughout the system.

Sizes:	1/2"	Body Material:	Corrosion-resistant polypropylene
Working Temperatue:	140⁰ F	Discharge Outlet:	Connects to 10 mm PE discharge tube
Pressure Range:	13 to 145 psi	Orifice Design:	Self-cleaning large orifice, automatic and vacuum release
Connection:	Threaded, NPT		
Flow Capacity	0–7 m^3/h (automatic), up to 10 m^3/h (vacuum)		

Automate Your Irrigation Maintenance

Keep your irrigation lines cleans automatically. The Rivulis Automatic Lateral Flush Valve is engineered to remove debris, sediment, and nutrient buildup from your irrigation lines at the start of each cycle. Each flush ensures clean, consistent water delivery across your entire system, protecting emitters, extending system life, and optimizing plant health.

Why Growers Choose Automatic Flush Valves

- **Enhanced System Efficiency**
  - Flushes lines automatically at the start of every irrigation cycle.
  - Removes debris that causes clogging and uneven pressure.
  - Ensures uniform nutrient and water delivery for consistent growth and quality yields
- **Labor-Free Maintenance**
  - Eliminates manual flushing, saving time and reducing labor costs.
  - Maintains system performance and reduces downtime through self-cleaning operation
- **Healthier Plants**
  - Prevents sediment from reaching emitters.
  - Supports consistent water and nutrient delivery to every plant.
  - Reduces stress, root issues, and uneven growth caused by clogged lines.

Grower Insight

”

As a large-scale commercial cannabis cultivator, labor is one of our most significant cost drivers. Implementing automatic lateral flush valves in our irrigation system has delivered immediate ROI by eliminating the labor-intensive process of manual line flushing.

These valves ensure that temperate water reaches the plants at every irrigation event, which is especially critical in direct-injection fertigation setups where sediment or particulate fallout can form in on-bench poly when systems are idle and solution is warming. By automatically clearing debris before it hits the emitters, these valves reduce clogging, protect drippers, and eliminate the need for frequent line cleaning, or worse, line replacement.

One unexpected but appreciated benefit is the audible confirmation they provide; each flush cycle creates a distinct sound that makes it easy to verify when an irrigation zone is activating, even without direct visual confirmation.

“

Beyond the clear labor savings, we've seen a measurable improvement in irrigation consistency and plant health, and there's a strong intangible value in the peace of mind that comes from knowing these valves are quietly doing their job every time we water.

They have now joined Rivulis assemblies and components in all of my irrigation designs.

Miles Sadowsky
Chief Cultivation Officer, Earth's Healing

Installing the Automatic Lateral Flush Valve

Install the valve at or slightly above the last dripper with the green cap facing upward. Once installed, the valve automatically flushes at the beginning of every irrigation cycle, no manual operation required.

Part Number:
101064526
Barbed Automatic Flush Valve

101079812
1/2" Threaded Ball Valve

Lateral Flush Valve: The pressure regulator maintains a consistent outlet pressure, even under varying inlet conditions.

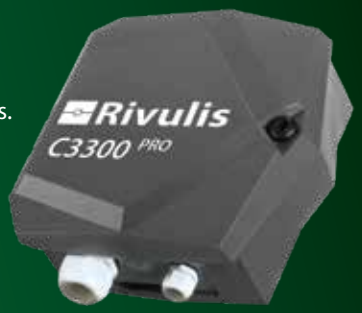
Operating Pressure:	7.25 – 44 PSI
Flushing Time:	15 – 25 seconds per cycle
Flush Volume:	0.5 – 0.75 gallons per cycle
Material:	Chemical-resistant plastics
Connections:	½" NPT male thread, Barb (16mm, 17mm, 20mm), 16mm tape connection

Reliable Line Maintenance For Nutrient-Rich Irrigation Systems

The Lateral Flush Valve ensures consistent performance and long-term system reliability. Its all-plastic, corrosion-resistant construction prevents chemical degradation, making it ideal for irrigation systems that deliver fertilizer and nutrient solutions.

The C3300 PRO: Irrigation & Fertigation Control

The C3300 provides precise, automated irrigation and fertigation control for indoor grow facilities. It manages pumps, filtration, dosing channels, valves, and sensors through an intuitive cloud platform. With 24 outputs, mobile access, real-time alerts, and detailed reporting, it delivers consistent nutrient application across every zone. Available in AC or solar-powered DC models with broad sensor compatibility.



General Characteristics

- DC Controller: Operated by lithium batteries or solar panel
- AC Controller: 220V/50Hz or 110V/60Hz

Models Available	• C3300 AC Pro (Stock Model) • C3300 DC Pro* (Solar Panel with Rechargeable Batteries)
Sensors and Accessories	Water meter, Rain sensor, Pressure gauge, Temperature gauge, Soil moisture, EC/pH, water meter
Remote Terminal Units	Unidirectional radio units for seamless operation of remote components without extensive wiring for greenhouse applications or open field

Ordering Information

SKU	Description
101111365	C3300 Pro AG LAN 24VAC 115V 24 LIC
101111364	C3300 Pro AG 24AC-115V-4G GLOBAL-FR 24 LIC

C3300 PRO

Yearly subscription fee	Yes
Cloud base solution	iOS, Android, PC
Max Nr. of irrigation lines under one	2
Fertigation methods available	Time / volume / proportional /EC&pH control
Number of fertilizer channels	Up to 4 channels per station
API Integration	Yes
Logic condition programs	Yes
Filter Backwash program	Yes, up to 2 arrays with up to 12 filters

Hardware Specifications

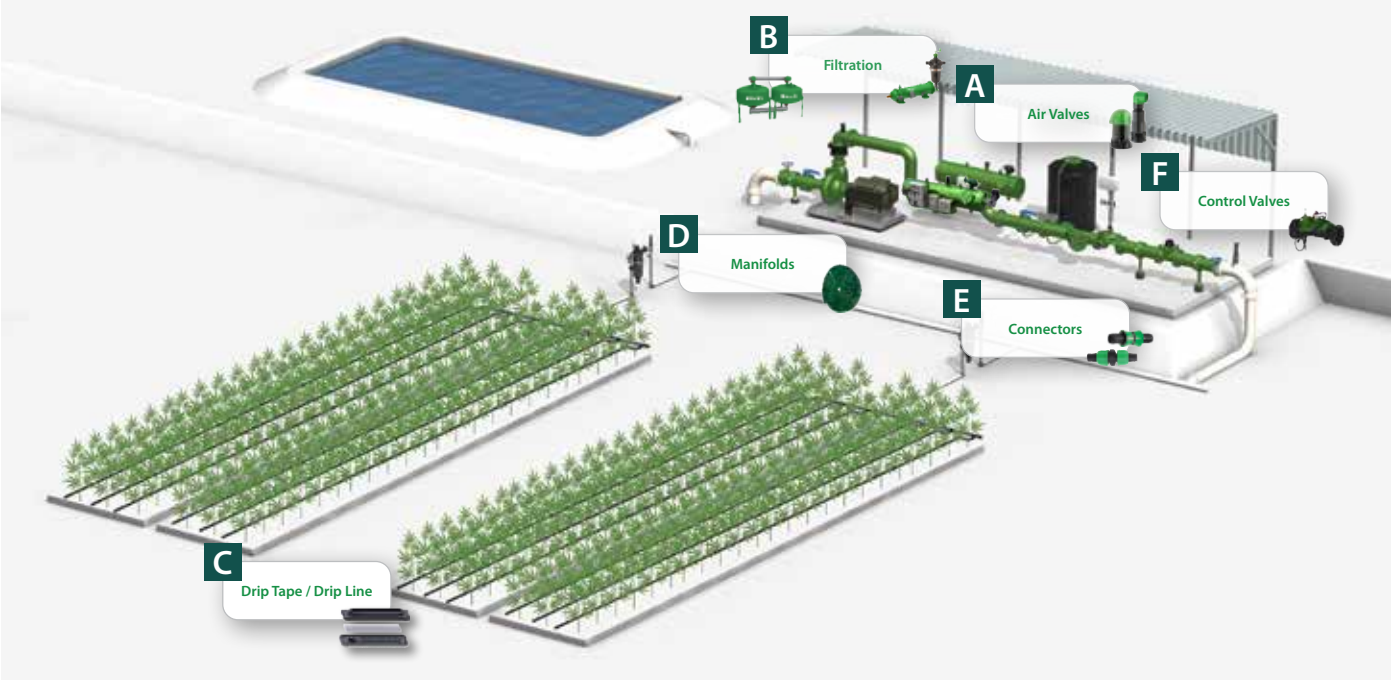
Outputs	24 outputs + 1 for MV
Digital Inputs	4 digital inputs
Analog Inputs - AC Model	2 analog inputs of 4-20 mA 3 floating inputs; can be digital or 0-10V
Power - AC Model	With 115/230V 50-60Hz power supply

Software Functionalities

Controls	Up to 2 irrigation lines, each comprised of pump, filtration station, fertigation station, valves, and auxiliary outputs.
Irrigation Methods	Time or quantity
Fertigation Methods	By volume or time, Proportional or EC & pH Control
Nr. Of dosing channels	Up to 4 (3 fertigation channel + 1 acid channel)
Irrigation programs	Up to 8
Dosing programs	Up to 10
Logical conditions	To open/close valve or start/stop program
Detailed reports	Irrigation logs, alarm history, water consumption, sensor readings

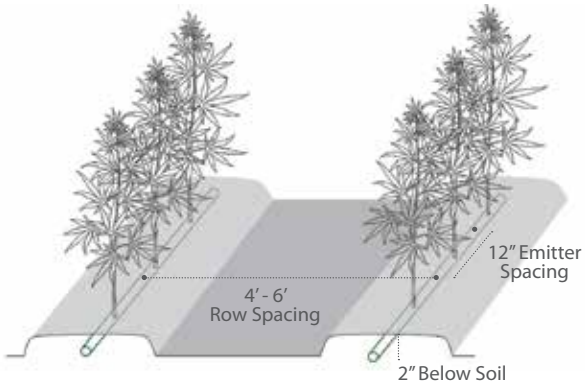
Outdoor/Open Field Cultivation

Rivulis offers complete irrigation solutions for open field cultivation, providing precise water and nutrient delivery to maximize yields, enhance crop quality, and conserve resources. With advanced drip systems and dedicated support, we empower cultivators to grow more efficiently and sustainably.



Row Spacing

For outdoor cultivation, laterals should be placed close enough to provide adequate moisture and nutrients directly to the root zone.



Drip Line Offering

Part Number	Description	Flow Rate per Min (gpm/100ft)	Flow Rate per Hour (gph/100ft)	Flow Rate per Emitter (gph)
101001497	T-Tape 508-12-220 5/8" 8 mil @ 12" spacing .22gpm/100ft 7550' Coil	0.22	13.0	0.13
101001499	T-Tape 508-12-340 5/8" 8 mil @ 12" spacing .34gpm/100ft 7550' Coil	0.34	20.0	0.20
101001536	T-Tape 708-12-220 7/8" 8 mil @ 12" spacing .22gpm /100ft 5660' Coil	0.22	13.0	0.13
101001542	T-Tape 708-12-340 7/8" 8 mil @ 12" spacing .34gpm/100ft 5660' Coil	0.34	20.0	0.20
101100359	D5000 PC, BLACK, 5/8", 15mil, 0.17gph, 12", 2625ft, HOLE OUTLET, NO STRIPES,	0.17		0.17
101099503	D5000 PC, BLACK, 7/8", 15mil, 0.17gph, 12", 2625ft, HOLE OUTLET, NO STRIPES,	0.17		0.17

Delivering consistent flow, uniform distribution, and reliable performance

Control Your Grow Environment

Rivulis

Master Precision Irrigation with Rivulis.

Contact Us

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