

# **GREENHOUSE & NURSERY CATALOG**





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ANTI-LEAK DEVICE Anti-Leak Device
ACCESSORIES  Collars, Plugs & Inserts
<b>DISTRIBUTION TUBING</b> 1/8" & 1/4" Vinyl Tubing

# DRIPLINE

### **EXCEL™** Pressure Compensating Dripline

Excel<sup>™</sup> pressure compensating dripline delivers and maintains constant flow uniformity at variable inlet pressures regardless of elevation and operating pressure variation along the line.

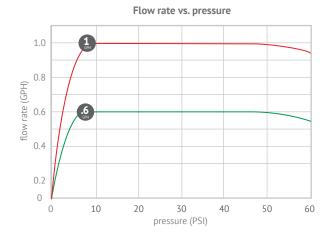
#### **Features**

- Two flow rates to provide maximum flexibility in a variety of applications
- Made of extruded, high strength, low-density polyethylene tubing with UV resistance
- Continuously self-cleaning silicone diaphragm ensures that flow is not interrupted by debris in the water
- Elevated filter design with turbulent flow helps reduce clogging regardless of installation instructions
- The drip emitter and diaphragm are selfcontained units that are molded into the interior wall of the tubing
- Made of three individual sections; cylindrical plastic housing with labyrinth water passage, floating silicon diaphragm and plastic receptacle
- The labyrinth flow path depth is long and wide, leading into the flow control chamber where a floating silicon diaphragm regulates and maintains a constant flow rate at variable inlet pressures
- One inlet and two outlets per emitter

### **Specifications**

- Operating pressure: 12-50 PSI (.8-3.5 BAR)
- Check valve opening pressure: 4.3 PSI (.3 BAR)
- Check valve sealing pressure: 2.5 PSI (.17 BAR)
- Flow rates:
- .6 GPH (2.3 L/H) color code orange
- 1 GPH (3.8 L/H) color code gray
- Dripline color: black
- Size: .570 ID x .670 OD (14.5 mm ID x 17 mm OD)
- Spacing: 12", 18" or 24" (30.5 cm, 45.7 cm and 61 cm)
- Available in 500' and 1000' coils (150 m and 300 m)
- Minimum bending radius:1' (30cm)
- Filter requirement:
   minimum of 150 mesh





### Maximum single lateral length

	[	Oripper spacir	ng
Pressure	12" (30 cm)	18" (45 cm)	24" (60 cm)
PSI (BAR)	Flow	rate .6 GPH (2	.3 L/H)
15 PSI (1.0)	215' (65 m)	244' (74 m)	370' (112 m)
25 PSI (1.7)	304' (92 m)	406' (123 m)	482' (146 m)
35 PSI (2.4)	343' (104 m)	459' (139 m)	617' (187 m)
45 PSI (3.2)	442' (134 m)	548' (166 m)	772' (234 m)
	Flow	rate 1.0 GPH (3	5.8 L/H)
15 PSI (1.0)	145' (44 m)	221' (67 m)	294' (89 m)
25 PSI (1.7)	185' (56 m)	294' (89 m)	403' (122 m)
35 PSI (2.4)	248' (75 m)	347' (105 m)	479' (145 m)
45 PSI (3.2)	287' (87 m)	413' (125 m)	512' (155 m)

### Flow rate per 100 feet (30 M)

Dripper		Flow rat	te .6 GPH	
spacing	GPM	L/M	GPH	L/H
12" (30 cm)	1.00	3.8	60	227
18" (45 cm)	0.67	2.5	40	151
24" (60 cm)	0.50	1.9	30	114
Dripper		Flow rat	e 1.0 GPH	
Dripper spacing	GPM	Flow rat L/H	e 1.0 GPH GPH	L/H
1.1	GPM 1.67			L/H 379
spacing		L/H	GPH	
spacing 12" (30 cm)	1.67	L/H 6.3	GPH 100	379

1	How to specify	
Model	Description	Color
	PC dripline	
A5-5XX-B	500'58 GPH 150 m - 2.2 l/h	Black
A1-5XX-B	500'95 GPH 150 m - 3.6 l/h	Black
A5-XX-B	1000'56 GPH 300 m - 2.1 l/h	Black
A1-XX-B	1000'93 GPH 300 m - 3.5 l/h	Black
	XX = dripper spacing	
example: A5-XX-PB	12 = 12 in (30 cm) 18 = 18 in (46 cm) 24 = 24 in (60 cm)	

30 = 30 in (75 cm)

# MICRO SPRAYER

# **Micro Sprayer Series 038**

Designed for use in greenhouses, 52-038-xx micro sprayers produce fine droplets and come in a wide range of flow rates. Ideal for maintaining conditions conducive to propagation and germination. An optional anti-leak device prevents dripping at the beginning and the end of each irrigation cycle, keeping the entire line pressurized.

### **Applications**

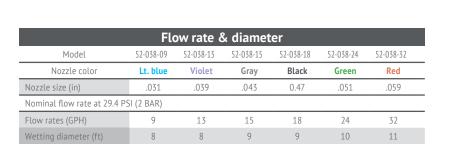
- Use in germination, seeding and rooting in greenhouses and nurseries
- Use for overhead irrigation, propagation and cooling in greenhouses and nurseries

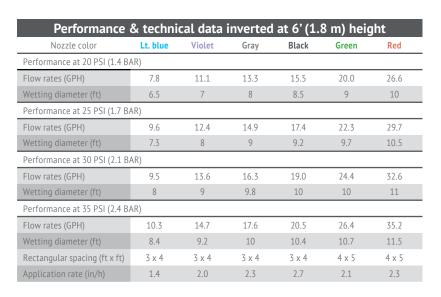
#### **Features**

- Excellent performance with uniform water distribution
- Color coded nozzles for flow rate identification
- Modular design allows for a wide range of interchangeable components
- · Suitable for upright and inverted position
- Maintains constant humidity or cooling in greenhouses
- High uniformity due to distribution accuracy and low precipitation rate

### **Performance and Technical Data**

- Flow rates: 9 32 GPH (35 l/h 120 l/h)
- Operating pressure: 20 35 psi (1 2.4 BAR)
- Nominal flow rate: 29.4 PSI
- Wetting diameter: 6.5' 11' (1.9 3.3 m)
- Operating pressure for overlap irrigation: 35 PSI (2.4 BAR)
- Pattern: 340°
- Trajectory angle: approximately 1°
- Average droplet size:
   .0008" (0.2 mm) very fine at 45 psi
- Filter requirements:
   120 mesh (130 micron)
   up to 24 GPH, 24 32
   GPH up to 80 mesh (180 micron)
- · Material: polyacetal







How to order					
Model	Description				
52-038-xx-0	Micro sprayer on 1/2" FNPT base				
52-038-xx-12	Micro sprayer assembly with 12" micro tubing, .270 OD barb and weight				
52-038-xx-24	Micro sprayer assembly with 24" micro tubing, .270 OD barb and weight				
52-038-xx-36	Micro sprayer assembly with 36" micro tubing, .270 OD barb and weight				
52-530-05	Anti-leak device (low pressure)				
52-530-10	Anti-leak device (high pressure)				
50-254-xx	Micro tubing assembly with weight				
52-181-0	1/2" FNPT base				

# **High Uniform Bench Watering**

### **Micro Sprayer Series 038**

The following tables represent recommendations and solutions to achieve a high level of uniformity within a specific area. This spacing will achieve the best results with high coverage and uniformity and can also achieve a lower system cost with higher efficiency.

**Step 1:** Select the micro sprayer flow and application rate

**Step 2:** Select the bench width

Step 3:	Select the micro sprayer spacing
Based or	n this selection you can determine
the appli	ication rate in inches per hour.

	Low applica	ation rate	e, 6' height	, 1' latera	l space	
Model	Bench width	3	4	5	6	Spacing
52.070.00	CU	82%	80%			
52-038-09 <b>Lt. blue</b>	in/hr	1.15	1.08			3
Et. bluc	% of water	70%	87%			
	CU	84%	84%			
52-038-13 Violet	in/hr	1.28	1.25			3
violet	% of water	70%	72%			

	Low applica	ition rate	, 6' height	, 3' latera	l space	
Model	Bench width	3	4	5	6	Spacing
52.070.45	CU	86%	85%	83%		
52-038-15 <b>Gray</b>	in/hr	0.42	0.39	0.34		3
	% of water	56%	58%	62%		
52.070.24	CU	85%	84%	81%		
52-038-24 <b>Green</b>	in/hr	3.50	3.70	3.90		3
	% of water	61%	64%	67%		
52.070.72	CU		89%	89%	87%	
52-038-32 <b>Red</b>	in/hr		3.25	3.05	2.92	3
neu	% of water		70%	72%	86%	



# **MICRO SPRINKLERS**

### Mini-Compact Micro Sprinkler Series 866

Mini-compact model 52-866-xx is a highly efficient micro sprinkler without a bridge, designed to irrigate in an inverted position for greenhouses. It can be connected directly to a lateral vine with or without an anti-leak device to prevent dripping at the beginning or at the end of each irrigation cycle, keeping the entire line pressurized.

### **Applications**

- Suits all applications in irrigation and propagation
- · Use in greenhouses and nurseries

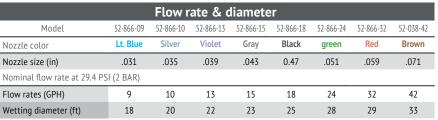
### **Features**

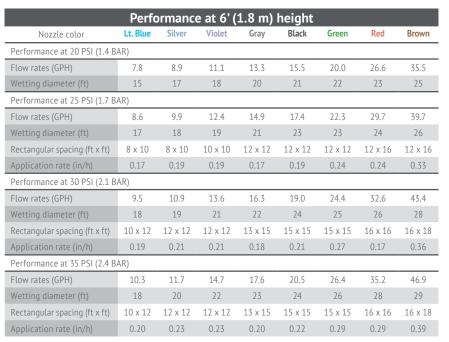
- Excellent performance with uniform water distribution
- Trouble-free operation even at low pressure
- Color coded specially designed nozzle with backup filter
- Firm compact construction without a bridge gives a complete 360° circle
- Modular design allows for wide range of interchangeable components

- Nozzle has a small backup filter for protection against penetration of dirt
- Made of durable materials ensuring resistance to most chemicals & fertilizers for long-lived, trouble-free operation
- Allows a large number of micro sprinklers to operate at the same time due to lower flow rate
- Uniform growth of root system due to optimal ratio of water in the soil

### **Performance and Technical Data**

- · Material: polyacetal
- Operating pressure: 15 35 PSI (1 2.4 BAR)
- Flow rates: 9 42 GPH (35 160 l/h)
- Diameter of coverage: 18' 29' (5.5 8.7 m)







Ho	How to specify						
Model	Description						
52-866-xx-0	Micro sprinkler on 1/2" FNPT base						
52-866-xx-12	Micro sprinkler assembly with 12" micro tubing, anti-leak device .270 OD barb and weight						
52-866-xx-24	Micro sprinkler assembly with 24" micro tubing, anti-leak device .270 OD barb and weight						
52-866-xx-36	Micro sprinkler assembly with 36" micro tubing, anti-leak device .270 OD barb and weight						
52-530-05	Anti-leak device (low pressure)						
52-530-10	Anti-leak device (high pressure)						
50-255-xx	Micro tubing assembly with weight						
52-822-0	1/2" FNPT base						

# **High Uniform Bench Watering**

### Mini-Compact Micro Sprinkler Series 866

The following tables represent recommendations and solutions to achieve a high level of uniformity within a specific area. This spacing will achieve the best results with high coverage and uniformity and can also achieve a lower system cost with higher efficiency.

**Step 1:** Select the micro sprinkler flow and application rate

**Step 2:** Select the bench width

**Step 3:** Select the micro sprinkler spacing

Based on this selection you can determine the application rate in inches per hour.



	Low appl	ication	rate 4	s' hoial	nt 1'L-	toral	nace –		
Model		4	5 Tale, 0	o neigi 6	1 <b>ι, ⊥ ι</b> α 7	8	pace 9	10	Chasina
Model	Bench width	4	5	93%	90%	88%	9	10	Spacing
52-866-09	in/h			0.40	0.39	0.38			3
Lt. blue	% of water			49%	55%	61%			3
Model	Bench width	12	13	14	15	16	17	18	Spacing
Model	CU CU	84%	83%	91%		10		10	Spacing
52-866-32	in/hr	0.50	0.49	0.48					6
Red	% of water	71%	75%	79%					U
	CU	7 170	7 3 7 0	7,770	87%	86%	85%	83%	
52-866-42	in/h				0.57	0.57	0.55	0.54	6
Brown	% of water				76%	80%	83%	86%	· ·
	Low applica	tion ra	te 6'h	eight	4' or 6	' latera	al snac	2	
Model	Bench width	12	13	14	15	16	17	18	Spacing
Model	CU	94%	92%	90%		10		10	Spacing
52-866-09	in/h	0.41	0.40	0.39					4
Lt. blue	% of water	67%	70%	74%					7
	CU	0770	7070	88%	86%	84%			
52-866-13	in/h			0.57	0.56	0.54			4
Violet	% of water			75%	79%	82%			
	Low appli	cation	rate 6				snace		
Model	Bench width	13	14	15	16	17	18	19	Spacing
Model	CU	13	96%	95%	93%	91%	89%	17	Spacing
52-866-15	in/h		0.39	0.38	0.38	0.37	0.37		6
Gray	% of water		65%	68%	72%	75%	78%		U
	CU		0370	0070	7 2 7 0	90%	88%	86%	
52-866-18	in/h					0.44	0.43	0.42	6
Black	% of water					75%	78%	81%	
	Low appli	cation	rate 6	' heigh	t 14'l:	ateral	snace		
Model	Bench width	18	19	20	21	22	23	24	Spacing
110000	CU	10	93%	93%	93%	92%		21	Spacing
52-866-15	CO					0.35			6
Cunic	in/h		() 56	0.36	0.35				n
Gray	in/h % of water		0.36 69%	0.36 72%	0.35 75%				0
	% of water		69%	0.36 72%	75%	78%	92%	91%	0
52-866-24	% of water						92%	91% 0.43	6
-	% of water				75% 94%	78% 93%			
52-866-24 <b>Green</b>	% of water CU in/h				75% 94% 0.45	78% 93% 0.44	0.44	0.43	
52-866-24 <b>Green</b> 52-866-32	% of water CU in/h % of water				75% 94% 0.45 74%	78% 93% 0.44 77%	0.44 79%	0.43 82%	
52-866-24 <b>Green</b>	% of water CU in/h % of water CU				75% 94% 0.45 74% 96%	78% 93% 0.44 77% 94%	0.44 79% 93%	0.43 82% 92%	6
52-866-24 <b>Green</b> 52-866-32 <b>Red</b>	% of water CU in/h % of water CU in/h				75% 94% 0.45 74% 96% 0.59	78% 93% 0.44 77% 94% 0.59	0.44 79% 93% 0.57	0.43 82% 92% 0.57	6
52-866-24 Green 52-866-32 Red	% of water CU in/h % of water CU in/h % of water				75% 94% 0.45 74% 96% 0.59	78% 93% 0.44 77% 94% 0.59 76%	0.44 79% 93% 0.57 78%	0.43 82% 92% 0.57 81%	6
52-866-24 Green 52-866-32 Red	% of water CU in/h % of water CU in/h % of water CU CU CU CU CU CU				75% 94% 0.45 74% 96% 0.59	78% 93% 0.44 77% 94% 0.59 76% 89%	0.44 79% 93% 0.57 78% 88%	0.43 82% 92% 0.57 81%	6
52-866-24 Green 52-866-32 Red	% of water CU in/h % of water	ication	69%	72%	75% 94% 0.45 74% 96% 0.59 73%	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72%	0.44 79% 93% 0.57 78% 88% 0.74 75%	0.43 82% 92% 0.57 81% 88% 0.73	6
52-866-24 Green 52-866-32 Red 52-866-42 Brown	% of water CU in/h % of water CU in/h % of water CU in/h % of water High appl		69%	72%	75% 94% 0.45 74% 96% 0.59 73%	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72%	0.44 79% 93% 0.57 78% 88% 0.74 75%	0.43 82% 92% 0.57 81% 88% 0.73 77%	6 6
52-866-24 Green 52-866-32 Red 52-866-42 Brown	% of water CU in/h % of water	ication 6	69% n rate, (	72% <b>6' heig</b> 8	75% 94% 0.45 74% 96% 0.59 73%	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72% ateral 9	0.44 79% 93% 0.57 78% 88% 0.74 75% <b>Space</b> 11	0.43 82% 92% 0.57 81% 88% 0.73	6
52-866-24 Green 52-866-32 Red 52-866-42 Brown Model 52-866-18	% of water CU in/h % of water CU in/h % of water CU in/h % of water High appl Bench width CU		69% n rate, (	72% 6' heig	75% 94% 0.45 74% 96% 0.59 73%	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72%	0.44 79% 93% 0.57 78% 88% 0.74 75%	0.43 82% 92% 0.57 81% 88% 0.73 77%	6 6
52-866-24 Green 52-866-32 Red 52-866-42 Brown	% of water CU in/h % of water CU in/h % of water CU in/h % of water High appl Bench width		69% n rate, (	72% <b>6' heig</b> 8 90%	75% 94% 0.45 74% 96% 0.59 73% ht, 1' la	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72% ateral:	0.44 79% 93% 0.57 78% 88% 0.74 75% <b>space</b> 11 84%	0.43 82% 92% 0.57 81% 88% 0.73 77%	6 6 Spacing
52-866-24 Green 52-866-32 Red 52-866-42 Brown Model 52-866-18 Black	% of water CU in/h % of water CU in/h % of water CU in/h % of water CH in/h % of water High appl Bench width CU in/h		69% n rate, (	72% 6' heig 8 90% 0.69	75% 94% 0.45 74% 96% 0.59 73% ht, 1' la 9 88% 0.66	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72% ateral: 10 86% 0.65	0.44 79% 93% 0.57 78% 88% 0.74 75% <b>space</b> 11 84% 0.64	0.43 82% 92% 0.57 81% 88% 0.73 77%	6 6 Spacing
52-866-24 Green 52-866-32 Red 52-866-42 Brown Model 52-866-18 Black 52-866-24	% of water CU in/h % of water CU in/h % of water CU in/h % of water  High appl Bench width CU in/h % of Water		69% n rate, (	72% 6' heig 8 90% 0.69	75% 94% 0.45 74% 96% 0.59 73% ht, 1' la 9 88% 0.66	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72% ateral: 10 86% 0.65 66%	0.44 79% 93% 0.57 78% 88% 0.74 75% <b>space</b> 11 84% 0.64 71%	0.43 82% 92% 0.57 81% 88% 0.73 77%	6 6 Spacing
52-866-24 Green 52-866-32 Red 52-866-42 Brown Model 52-866-18 Black	% of water CU in/h % of water CU in/h % of water CU in/h % of water  High appl Bench width CU in/h % of Water CU		69% n rate, (	72% 6' heig 8 90% 0.69	75% 94% 0.45 74% 96% 0.59 73% ht, 1' la 9 88% 0.66	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72% ateral: 10 86% 0.65 66% 86%	0.44 79% 93% 0.57 78% 88% 0.74 75% <b>SPACE</b> 11 84% 0.64 71%	0.43 82% 92% 0.57 81% 88% 0.73 77%	6 6 Spacing 3
52-866-24 Green 52-866-32 Red 52-866-42 Brown Model 52-866-18 Black 52-866-24	% of water CU in/h % of water CU in/h % of water CU in/h % of water  High appl Bench width CU in/h % of Water CU in/h		69% n rate, (	72% 6' heig 8 90% 0.69	75% 94% 0.45 74% 96% 0.59 73% ht, 1' la 9 88% 0.66	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72% ateral: 10 86% 0.65 66% 86% 0.61	0.44 79% 93% 0.57 78% 88% 0.74 75% <b>SPACE</b> 11 84% 0.64 71% 84% 0.59	0.43 82% 92% 0.57 81% 88% 0.73 77% 12	6 6 Spacing 3
52-866-24 Green  52-866-32 Red  52-866-42 Brown  Model  52-866-18 Black  52-866-24 Green  Model	% of water CU in/h % of water CU in/h % of water CU in/h % of water  High appl Bench width CU in/h % of Water CU in/h % of Water CU in/h % of Water	6	69%  rate, (	72% 6' heig 8 90% 0.69 56%	75% 94% 0.45 74% 96% 0.59 73% ht, 1' la 9 88% 0.66 62%	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72% ateral: 10 86% 0.65 66% 86% 0.61 64%	0.44 79% 93% 0.57 78% 88% 0.74 75% <b>SPACE</b> 11 84% 0.64 71% 84% 0.59 68%	0.43 82% 92% 0.57 81% 88% 0.73 77% 12	6 6 Spacing 3
52-866-24 Green  52-866-32 Red  52-866-42 Brown  Model  52-866-18 Black  52-866-24 Green  Model  52-866-32	% of water CU in/h % of water CU in/h % of water CU in/h % of water High appl Bench width CU in/h % of Water CU in/h % of Water Bench width	12	69%  rate, ( 7	72% 6' heig 8 90% 0.69 56%	75% 94% 0.45 74% 96% 0.59 73% ht, 1' la 9 88% 0.66 62%	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72% ateral: 10 86% 0.65 66% 86% 0.61 64%	0.44 79% 93% 0.57 78% 88% 0.74 75% <b>SPACE</b> 11 84% 0.64 71% 84% 0.59 68%	0.43 82% 92% 0.57 81% 88% 0.73 77% 12	6 6 Spacing 3
52-866-24 Green  52-866-32 Red  52-866-42 Brown  Model  52-866-18 Black  52-866-24 Green  Model	% of water CU in/h % of water CU in/h % of water CU in/h % of water High appl Bench width CU in/h % of Water	12 85%	69%  rate, ( 7	72% 6' heig 8 90% 0.69 56%	75% 94% 0.45 74% 96% 0.59 73% ht, 1' la 9 88% 0.66 62%	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72% ateral: 10 86% 0.65 66% 86% 0.61 64%	0.44 79% 93% 0.57 78% 88% 0.74 75% <b>SPACE</b> 11 84% 0.64 71% 84% 0.59 68%	0.43 82% 92% 0.57 81% 88% 0.73 77% 12	6 6 Spacing 3 4 Spacing
52-866-24 Green  52-866-32 Red  52-866-42 Brown  Model  52-866-18 Black  52-866-24 Green  Model  52-866-32 Red	% of water CU in/h % of water CU in/h % of water CU in/h % of water High appl Bench width CU in/h % of Water Bench width CU in/h	12 85% 1.00 71% 90%	13 83% 0.85 65% 89%	72%  6' heig  8  90% 0.69 56%  14  81% 0.96 79% 88%	75% 94% 0.45 74% 96% 0.59 73% ht, 1' La 9 88% 0.66 62%	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72% ateral: 10 86% 0.65 66% 86% 0.61 64% 16	0.44 79% 93% 0.57 78% 88% 0.74 75% <b>SPACE</b> 11 84% 0.64 71% 84% 0.59 68%	0.43 82% 92% 0.57 81% 88% 0.73 77% 12 82% 0.58 73% 18	6 6 Spacing 3 4 Spacing
52-866-24 Green  52-866-32 Red  52-866-42 Brown  Model  52-866-18 Black  52-866-24 Green  Model  52-866-32	% of water CU in/h % of water CU in/h % of water CU in/h % of water  High appl Bench width CU in/h % of Water CU in/h % of Water CU in/h % of Water Bench width CU in/h % of Water Bench width	12 85% 1.00 71%	69%  13 83% 0.85 65%	72%  6' heig  8  90% 0.69 56%  14  81% 0.96 79%	75% 94% 0.45 74% 96% 0.59 73% ht, 1' la 9 88% 0.66 62%	78% 93% 0.44 77% 94% 0.59 76% 89% 0.74 72% ateral: 10 86% 0.65 66% 86% 0.61 64% 16	0.44 79% 93% 0.57 78% 88% 0.74 75% <b>SPACE</b> 11 84% 0.64 71% 84% 0.59 68% 17	0.43 82% 92% 0.57 81% 88% 0.73 77% 12 82% 0.58 73% 18	6 6 Spacing 3 4 Spacing

### Mini-Micro Sprinkler Series 700

Series 52-700-xx mini sprinkler is an insect-proof, dynamic sprayer for under canopy irrigation with a full range of flow rates and excellent distribution uniformity.

### **Features**

- Excellent performance with uniform water distribution
- Press fit configuration for easy maintenance
- Head closes downwards after operation to prevent dirt and insects from entering the sprinkler (insect-proof)
- Dynamic operation ensures self-cleaning and prevents accumulation of deposits, making it suitable for irrigation water containing iron and calcium
- Firm construction, without a bridge, gives a complete 360° circle
- Available on 1/2", 10/32" FNPT or completely assembled on 13" spike with 24" or 36".160 ID x.270 OD micro tubing
- Can operate inverted to reduce wetting diameter for young trees
- Filter requirement: minimum of 120 mesh (130 micron)

### **Performance and Technical Data**

- · Material: polyacetal
- Operating pressure: 25 35 PSI (1.7 - 2.4 BAR)
- Operating pressure in overlapping irrigation: 35 PSI (2.4 BAR)
- Flow rates: 10 42 GPH (40 l/h 160 l/h)
- Diameter of coverage: 6' 17' (1.8 5.1 m)
- Operating pressure in overlapping irrigation: 35 PSI (2.4 BAR)
- Pattern: 360°

### **Applications**

- Suits all applications of seedling, young sapling and mature tree irrigation
- Use in orchards, greenhouses and nurseries
- Low precipitation rate for any soil structure
- Can be used for frost protection and cooling





Flow rate & diameter								
Model	52-700-10	52-700-15	52-700-18	52-700-24	52-700-27	52-700-32	52-700-42	
Nozzle color	Silver	Gray	Black	Green	Dk. blue	Red	Brown	
Nozzle size (in)	.035	.043	.047	.051	.055	.059	.071	
Nominal flow rate at 29.4 PS	SI (2 BAR)							
Flow rates (GPH)	10	15	18	24	27	32	42	
Wetting diameter (ft)	10	11	13	14	15	16	17	

Performa	nce & te	chnical d	lata reve	rted at 6	o' (1.8 m)	height	
Nozzle color	Silver	Gray	Black	Green	Dk. blue	Red	Brown
Performance at 25 PSI (1.7 B	AR)						
Flow rates (GPH)	9.9	14.9	17.4	22.3	26.0	29.7	39.7
Wetting diameter (ft)	6	10	11	12	13	14	15
Performance at 30 PSI (2.1 B	AR)						
Flow rates (GPH)	10.9	16.3	19.0	24.4	28.5	32.6	43.4
Wetting diameter (ft)	7	11	12	14	16	15	16
Performance at 35 PSI (2.4 B	AR)						
Flow rates (GPH)	11.7	17.6	20.5	26.4	30.8	35.2	46.9
Wetting diameter (ft)	10	11	13	14	15	16	17
Rectangular spacing (ft x ft)	6 x 4	7 x 6	7 x 6	8 x 6	8 x 6	10 x 6	10 x 6
Application rate (in/h)	0.78	0.62	0.78	0.88	1.02	0.94	1.25

How to specify		
Model	Description	
52-700-xx-0	Mini sprinkler on 1/2" FNPT base	
52-700-xx-24	Mini sprinkler assembly with 24" micro tubing, .270 OD barb and weight	
52-700-xx-36	Mini sprinkler assembly with 36" micro tubing, .270 OD barb and weight	
50-430-0	13" press fit stake	
50-156-24	24" micro tubing assembly	
50-156-36	36" micro tubing assembly	
52-822-0	1/2" FNPT base	

### Mini-Compact Micro Sprinkler Series 861

The mini-compact micro sprinklers present an advanced concept in micro irrigation systems. The mini-compact micro sprinkler's unique drive mechanism achieves strong spinner propulsion at lower pressure. A small backup filter ensures extra protection and also serves as a secondary nozzle, keeping the droplet size even and providing excellent distribution uniformity. Mini-compact micro sprinklers use interchangeable components with a large selection of nozzles suitable for applications in the irrigation of seedlings, young saplings and mature trees.

### **Applications**

- Use in orchards, greenhouses and nurseries
- · Can be used for frost protection and cooling

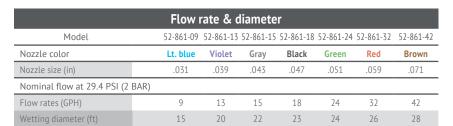
### **Features**

- Excellent performance with uniform water distribution
- Large water passage
- Head closes downwards after operation to prevent dirt and insects from entering the sprinkler (insect-proof)
- · Built-in filter
- Trouble-free operation even at low pressure
- Strong spinner propulsion at low pressure
- Frame construction without a bridge allows a complete 360° circle
- Available on 1/2" FNPT, or completely assembled on 13" spike with 24" or 36" .160 ID x .270 OD micro tubing

- Made of durable materials, ensuring resistance to most chemicals and fertilizers
- The micro sprinkler has a small backup filter for protection

### **Performance and Technical Data**

- Material: polyacetal
- Operating pressure:15 30 PSI (1 2.0 bar)
- Flow rates:
   9 GPH 42 GPH (34 l/h 160 l/h)
- Diameter of coverage:
   15' 28' (4.5 m 8.5 m)
- Pattern: 360°
- Trajectory angle: approximately 12°
- Droplet size: medium
- Filter requirement: minimum of 120 mesh (130 micron)



Performance &	technica	al at 6'	(1.8 m)	above	the gro	ound	
Nozzle color	Lt. blue	Violet	Gray	Black	Green	Red	Brown
Performance rate 15 PSI (1 BAR)							
Flow rates (GPH)	6.7	9.6	11.5	13.4	17.3	23.0	30.7
Wetting diameter (ft)	10	14	16	17	18	21	23
Performance rate 20 PSI (1.4 BAR)							
Flow rates (GPH)	7.8	11.1	13.3	15.5	20.0	31.0	35.5
Wetting diameter (ft)	12	16	18	20	21	23	25
Performance at 25 PSI (1.7 BAR)							
Flow rates (GPH)	8.7	12.4	14.9	17.4	22.3	29.7	39.7
Wetting diameter (ft)	13	17	19	21	21	25	27
Performance at 30 PSI (2.1 BAR)							
Flow rates (GPH)	9.5	13.6	16.3	19.0	24.4	32.6	43.4
Wetting diameter (ft)	15	20	22	23	24	26	28
Rectangular spacing (ft x ft)	12 x 10	14 x 12	14 x 12	14 x 12	16 x 14	16 x 14	16 x 14
Application rate (in/h)	0.12	0.13	0.15	0.18	0.17	0.23	0.31





How to specify			
Model	Description		
52-861-xx-0	Mini-compact sprinkler on 1/2" FNPT base		
52-861-xx-24	Mini-compact sprinkler assembly with 24" micro tubing, .270 OD barb and weight		
52-861-xx-36	Mini-compact sprinkler assembly with 36" micro tubing, .270 OD barb and weight		
50-430-0	13" press fit stake		
50-156-24	24" micro tubing assembly		
50-156-36	36" micro tubing assembly		
52-822-0	1/2" FNPT base		

# **FOGGERS**

### **EXL Fogger Series 500**

The EXL 500 series low flow fogger heads used for cooling and humidifying produce micro-sized droplets. Design flexibility is achieved with interchangeable nozzles to maximize the cooling and humidifying options. DIG'S EXL 50-500-xx fogger can significantly reduce the temperature inside greenhouses to maintain ideal temperature and humidity.

### **Applications**

- · Mist cooling and humidifying
- Root development

#### **Features**

- · Incorporates a vortex mechanism, breaking the water into micro-sized droplets
- · Used for overhead cooling and humidifying in a closed structure
- Interchangeable color coded nozzles
- Can be used on an anti-leak device with one, four fogging head assemblies
- Designed without a bridge to prevent
- Three part construction with O-ring for a tight seal
- Manufactured from superior durable plastics for extended life operation
- Available on 1/2" or 3/8" threaded base or completely assembled with 24" (60 cm) with 160 ID x .270 OD micro tubing, weight and anti-leak device

### **Performance and Technical Data**

- Material male and female body: polybutylene (PB); O-ring: Buna N; nozzle: acetal
- Operating pressure: 35 to 80 psi (2.4 - 5.5 BAR)
- Nominal flow rate at 50 PSI (3.5 BAR)
- Pattern: 360°
- Trajectory angle: approximately 30-35°
- Average droplet size is 50-100 microns
- Filter requirements: flow up to 1.5 GPH (6 l/h) minimum of 200 mesh (80 microns), 2 GPH (8 l/h) and 155 mesh (100 micron)
- · Used only with anti-leak model 52-530-x



#### Flow rate & diameter Model 50-501-13 50-501-20 50-501-25 50-501-35 Nozzle color Black Green Brown Gray Nozzle size (in) 0.013 0.020 0.025 0.035 Flow rate 1.0 1.5 2.0 3.0 2.5 4.0 Diameter (ft) 70° 70° 70° 80° Misting angle 30 PSI 0.85 1.26 1.58 2.21 35 PSI 0.91 1.36 1.68 2.40 0.98 1.49 40 PSI 183 2.61 45 PSI 1.04 1.52 1.91 2.78 1.07 2.91 50 PSI 1.58 2.02 55 PSI 1 14 1.64 2.09 3.02 60 PSI 1.17 1.71 2.18 3.17 65 PSI 1.20 1.74 2.26 3.26

1.26

1.82

2.31

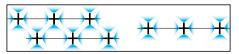
3.42

70 PSI

50-504-13-12



#### Sample Layout



	Performance a	at 6' (1.8 m) he	eight	
Nozzle colors	Black	Green	Brown	Gray
Performance at 50 PSI (3.5 B	AR), single head			
Flow fates (GPH)	1.07	1.58	2.02	2.91
Wetting diameter (ft)	3.2	3.5	3.5	4.0
Rectangular spacing (ft x ft)	3 x 3	3 x 4	3 x 4	3 x 4
Application rate (in/h)	0.10	0.12	0.13	0.18
Performance at 50 PSI (3.5 BAR), four-way head assembly				
Flow rates (GPH)	4.68	6.84	8.72	12.68
Rectangular spacing (ft x ft)	4 x 4	4 x 4	4 x 4	4 x 4
Application rate (in/h)	0.47	0.68	0.87	1.27

How to specify		
Model	Description	
50-501-xx-0	Single fogger assembly on 1/2" FNPT base	
50-504-xx-12	4-way fogger assembly with 12" micro tubing, .270 OD barb and weight	
50-504-xx-24	4-way fogger assembly with 24" micro tubing, .270 OD barb and weight	
50-504-xx-36	4-way fogger assembly with 36" micro tubing, .270 OD barb and weight	
52-530-x	Anti-leak device (low pressure)	
50-254-xx	Micro tubing assembly with weight	
52-181-0	1/2" FNPT base	
xx = flow rate		
example: 50-504-xx-12	13 = 1 GPH flow rate 20 = 1.5 GPH flow rate 25 = 2 GPH flow rate	

30 = 3 GPH flow rate

# **DRIP EMITTERS**

# Pressure Compensating Emitters with Built-in Check Valve For Pots and Hanging Baskets

PC drip emitter with a built in check valve that allows for higher irrigation uniformity and production in bench pots or hanging baskets. The PCA pressure compensating dripper with built in check valve provides uniform flows of .3, .5 or 1 GPH to each bench pot, basket, or container for higher value crops, water savings, and improved plant production and quality.

### **Features**

- Ideal watering solution for long laterals, pulse irrigation, and light soil including pots and hanging baskets
- The check valves provide consistent flow and reduces lateral filling time, supporting water savings
- Colored barbed cap outlet enables easy identification of dripper flow rate
- Barb outlet can be configured to work with 1/8" micro tubing for branching from the dripper
- Unaffected by fluctuating inlet water pressure
- Composed of superior materials for a long life

- Flow rates and color codes:
  - .3 GPH (1.1 L/H) color code gray
  - .58 GPH (2.2 L/H) color code brown
  - 1 GPH (3.8 L/H) color code black
- Inlet size: 1/4" barb, outlet size: 1/8" barb
- Filter requirement:
- 120 mesh for .58 GPH (2.2 L/H) or lower
  - 150 mesh for 1 GPH (3.8 L/H) or higher
- Material:
  - Body and cover: polypropylene
  - Diaphragm: silicon



How to specify		
Model	Description	Color
PCA-003 CV	.3 GPH dripper	Gray
PCA-006 CV	.58 GPH dripper	Brown
PCA-010 CV	1 GPH dripper	Black

### Specifications

- Operating pressure: 10-50 PSI (.7-3.5 BAR)
- Required opening pressure:
   4.3 PSI (.3 BAR)
- Closing pressure: 2.2 PSI (.15)



### **Stakes**

Completely assembled units are available.

#### **Features**

- High impact plastic
- UV-resistant
- Available with labyrinth stake or with barb



	How to specify	
Model	Description	Color
	Pictured from left to right	
16-027	6" Labyrinth arrow stake	Black
16-017	6" Stake with 1/8" barb	Black
50-187-02	2' 1/8" vinyl micro tubing with .118 ID x .187 OD for use with arrow stake	Black
50-187-03	3' 1/8" vinyl micro tubing with .118 ID x .187 OD for use with arrow stake	Black
50-187-04	4' 1/8" vinyl micro tubing with .118 ID x .187 OD for use with arrow stake	Black

# **ANTI-LEAK DEVICE**

### **Anti-Leak Device Assembly**

DIG's anti-leak device is a water pressure valve which opens and closes instantly when pressure builds up. This action prevents the micro sprinklers or misters from dripping as a result of the gradual increase or decrease in water pressure when opening and closing the system. The anti-leak devise can be used with all DIG products.

### **Applications**

- Greenhouse irrigation and misting systems
- Seedling and rooting systems
- Pulse irrigation to avoid air formation in the pipe and the time required for pressure to rise after each pulse
- Slope irrigation to prevent the overflow of water emptying the line when the water is shut off

#### **Features**

- Designed with a stainless steel spring for long-lasting, uniform operation
- Can be connected to micro sprinkler, mister or fogger from either side
- Wide water passage for low maintenance
- Prevents damage to sensitive plants caused by dripping at the beginning and end of each irrigation cycle
- Pulse irrigation system to avoid air formation in the pipe and in each pressure rise in the system
- Prevents overflow drain from the lateral when water is shut off

# Performance and Technical Data

- Material: polyacetal body, silicon diaphragm and stainless steel spring
- Operating pressure: up to 65 PSI (4.5 BAR)
- Local head loss against arrow direction: 18 GPH, 0.7 PSI (70 l/h, 0.05 BAR)
- Local head loss against arrow direction: 28 GPH, 1.4 PSI (105 l/h, 0.10 BAR)
- Press fit connection from male or female side



#### Performance & technical data Model # 52-530-10 (H) 52-530-05 (L) 52-530-X\* Black Black Black Opening pressure PSI 29-36 16-22 11-17 1.1-1.5 0.8-1.2 2.1-2.6 Closing pressure PSI 10-12 4-6 18-21 0.75-0.95 0.35-0.45 1.3-1.5 Opening pressure (opposite arrow direction) PSI 16-23 11-18

0.8-1.3

How to specify		
Model	Description	
52-530-10	High pressure anti-leak	
52-530-05	Low pressure anti-leak	
52-530-X	Low flow anti-leak	

\*Used with Series 500 fogger only

The attachment of the anti-leak device to a micro sprinkler or fogger is by press fit design. The arrow mark indicates a male connection, the opposite direction indicates a female connection. Suitable for all micro sprinklers, sprayers and foggers.

1.1-1.6

BAR

# **ACCESSORIES**

# **Collars, Plugs and Inserts**









# 1/2" Micro Tubing



How to specify		
Model	Description	
52-131-0	Collar	
52-138-0	Plug 800 male	
52-140-0	Nipple 800 male	
52-240-0	Insert for iron rod, 4 mm	

	How to specify
Model	Description
50-151-xx	24" and 36" micro tubing with .160 IDx .270 OD, barb only
50-154-xx	24" and 36" micro tubing with .160 IDx .270 OD, barb and collar
50-156-xx	24" and 36" micro tubing with .160 IDx .270 OD, barb and adapter to fit mini sprinklers and compact micro sprinklers

# **Bases & Adapters**







How to specify		
Model	Description	
52-181-0	1/2" FPT thread base 800 male	
52-882-0	1/2" FPT thread base 700 female	
50-550-0	Press fit adapter with barb	

# **Plungers & Barbs**







How to specify		
Model	Description	
52-133-0	1/4" Barb	
52-135-0	Plunger, 5/32" female	
52-136-0	Collar with barb	

### **Punches & Tools**



How to specify			
Model	Description		
55-102	Punch assembly, 2 mm		
55-103	Punch assembly, 3 mm		
55-104	Punch assembly, 4 mm		
55-162-0	Punch for 1/2" poly tubing, 2 mm		
55-163-0	Punch for 1/2" poly tubing, 3 mm		
55-164-0	Punch for 1/2" poly tubing, 4 mm		

### Stakes & Rods



How to specify			
Model	Description		
50-036-1	36" iron rod		
50-430-0	Press fit stake, 13"		
50-431-0	Clip stake, 13"		

# **Micro Tubing Assembly**



How to specify			
Model	Description		
50-253-xx	Micro tubing assembly with 2 collars and weight		
50-254-xx	12", 24", 36" micro tubing assembly with collars, barb and weight		
50-255-xx	12", 24", 36", 48" micro tubing assembly with plunger, barb and weight		

# **DISTRIBUTION TUBING**

DIG extrudes its polyethylene tubing at our Vista manufacturing facility, producing over 100 million feet each year. A minimum of 2% carbon black is added to ensure maximum UV protection. The polyethylene drip tubing is available in a wide range of sizes and coil lengths, including 1/8" and 1/4" distribution tubing.

In vinyl tubing, DIG offers both 1/8" and 1/4" distribution tubing in lengths of up to 3,000 feet on spooled coils. Made of a high quality vinyl material, it is UV-resistant and can be used in a variety of applications. Compact uniform coils for ease of shipping and storage.



### 1/8" & 1/4" Micro Tubing

#### **Features**

- 1/8" used with TOP 12-outlet emitters
- UV-resistant
- Made of high quality material
- 500', 1000' and 3000' coils (150 m, 300 m, 900 m) come on cardboard cores



### **Specifications**

- Operating pressure: up to 60 PSI (4.2 BAR)
- Available in two sizes:
- 1/8": .118 ID x .187 OD
- 1/4": .156 ID x .245 OD
- 1/4": .160 ID x .220 OD
- 1/4": .170 ID x .250 OD
- · Stiffness: 90 shore
- · Material: vinyl

# 1/8" & 1/4" Polyethylene Tubing

#### **Features**

- Blank polyethylene distribution tubing available in 500', 1000' and 3000' coils (150 m, 300 m, 900 m)
- 500', 1000' and 3000' coils (150 m, 300 m, 900 m) come on cardboard cores



### **Specifications**

- Operating pressure: up to 60 PSI (4.2 BAR)
- · Available in three configurations:
- .125 ID x .187 OD (3.8 x 4.7 mm)
- .160 ID x .220 OD (4.0 x 5.5 mm)
- .170 ID x .250 OD (4.3 x 6.3 mm)
- Material: linear low-density polyethylene resin

# 1/2", 3/4" & 1" Polyethylene Tubing

#### **Features**

- Contains antioxidant to protect the drip tubing from thermal degradation, minimum of 2% concentrated carbon black resin added
- The polyethylene and drip tubing exhibits a combination of outstanding environmental stress-cracking resistance and burst strength
- Use with our wide range of compression and barbed fittings
- Available in black or brown colors
- Coil length in 500' and 1000' (150 m and 300 m)

### **Specifications**

- Operating pressure: up to 60 PSI (4.2 BAR)
- Available in six configurations:
- .520 ID x .620 OD (13.2 mm x 15.7 mm) wall thickness: .050" (1.3 mm)
- .570 ID x .670 OD (14.5 mm x 17.0 mm) wall thickness: .050" (1.3 mm)
- .600 ID x .700 OD (15.2 mm x 17.8 mm) wall thickness: .050" ( 1.3 mm)
- .620 ID x .710 OD (15.6 mm x 18.0 mm) wall thickness: .045" (1.1 mm)
- .820 ID x .940 OD (20.8 mm x 23.8 mm) wall thickness: .060" (1.5 mm)
- 1.060 ID x 1.200 OD (26.9 mm x 30.4 mm) wall thickness: .070" (1.8 mm)
  - Material: linear low-density polyethylene resin

Nodel   Description   Color		How to specify		
12-042 500' • .118 ID x .187 OD Black 12-043 1000' • .118 ID x .187 OD Black 12-019 3000' • .118 ID x .187 OD Black  1/4" Vinyl  12-049 500' • .156 ID x .245 OD Black 12-050 1000' • .156 ID x .245 OD Black 12-050 1000' • .156 ID x .245 OD Black 12-051 3000' • .156 ID x .245 OD Black 12-055 500' • .160 ID x .220 OD Black 12-056 500' • .160 ID x .220 OD Black 12-111 500' • .170 ID x .250 OD Black 12-112 1000' • .170 ID x .250 OD Black 1/8" Poly tubing  12-075 500' • .125 ID x .187 OD Black 1/8" Poly tubing  12-080 1000' • .125 ID x .187 OD Black 1/4" Poly tubing  12-041 500' • .170 ID x .250 OD Black 1/2-060 1000' • .170 ID x .250 OD Black 1/2-060 500' • .170 ID x .250 OD Black 1/2-065 3000' • .170 ID x .250 OD Black 1/2-065 3000' • .170 ID x .250 OD Black 1/2-065 3000' • .170 ID x .250 OD Black 1/2-065 3000' • .170 ID x .250 OD Black 1/2-065 3000' • .170 ID x .250 OD Black 1/2-065 3000' • .170 ID x .250 OD Black 1/2-065 3000' • .170 ID x .250 OD Black 1/2-075 500' • .520 ID x .620 OD Black 1/2-085 3000' • .520 ID x .620 OD Black 1/2-085 3000' • .520 ID x .620 OD Black 1-008 1000' • .615 ID x .710 OD Black 31-013 1000' • .615 ID x .710 OD Black 31-014 500' • .615 ID x .710 OD Black 31-015 500' • .615 ID x .710 OD Black 31-016 1000' • .615 ID x .700 OD Black 31-017 500' • .615 ID x .700 OD Black 31-018 1000' • .615 ID x .700 OD Black 31-019 1000' • .615 ID x .700 OD Black 31-010 1000' • .615 ID x .700 OD Black 31-010 1000' • .615 ID x .700 OD Black 31-010 1000' • .615 ID x .700 OD Black 31-010 1000' • .615 ID x .700 OD Black	Model	Description	Color	
12-043		1/8" Vinyl		
12-019 3000' • .118 ID x .187 OD Black  1/4" Vinyl  12-049 500' • .156 ID x .245 OD Brown  12-005 500' • .156 ID x .245 OD Black  12-050 1000' • .156 ID x .245 OD Black  12-015 3000' • .156 ID x .245 OD Black  12-056 500' • .160 ID x .220 OD Black  12-057 1000' • .160 ID x .220 OD Black  12-111 500' • .170 ID x .250 OD Black  12-112 1000' • .170 ID x .250 OD Black  1/8" Poly tubing  12-075 500' • .125 ID x .187 OD Black  12-080 1000' • .125 ID x .187 OD Black  12-085 3000' • .125 ID x .187 OD Black  1/4" Poly tubing  12-041 500' • .170 ID x .250 OD Black  1/2-060 1000' • .170 ID x .250 OD Black  1/2-065 3000' • .170 ID x .250 OD Black  1/2-065 3000' • .170 ID x .250 OD Black  1/2-065 3000' • .520 ID x .620 OD Black  31-007 500' • .520 ID x .620 OD Black  31-012 500' • .615 ID x .710 OD Black  31-013 1000' • .615 ID x .710 OD Black  31-014 500' • .615 ID x .710 OD Black  31-015 500' • .615 ID x .710 OD Black  31-016 1000' • .615 ID x .710 OD Black  31-017 500' • .615 ID x .710 OD Black  31-018 1000' • .615 ID x .710 OD Black  31-019 500' • .615 ID x .710 OD Black  31-010 500' • .615 ID x .710 OD Black  31-010 500' • .615 ID x .710 OD Black  31-010 500' • .615 ID x .710 OD Black  31-010 500' • .615 ID x .710 OD Black  31-010 500' • .615 ID x .710 OD Black  31-010 500' • .615 ID x .710 OD Black  31-010 500' • .615 ID x .710 OD Black  31-010 500' • .615 ID x .710 OD Black  31-010 500' • .615 ID x .710 OD Black  31-010 500' • .615 ID x .710 OD Black  31-010 500' • .615 ID x .710 OD Black  31-010 500' • .615 ID x .710 OD Black	12-042	500' • .118 ID x .187 OD	Black	
1/4" Vinyl  12-049 500' • .156 ID x .245 OD Black  12-050 1000' • .156 ID x .245 OD Black  12-051 3000' • .156 ID x .245 OD Black  12-056 500' • .156 ID x .245 OD Black  12-056 500' • .160 ID x .220 OD Black  12-057 1000' • .160 ID x .220 OD Black  12-111 500' • .170 ID x .250 OD Black  12-112 1000' • .170 ID x .250 OD Black  1/8" Poly tubing  12-075 500' • .125 ID x .187 OD Black  12-080 1000' • .125 ID x .187 OD Black  12-085 3000' • .125 ID x .187 OD Black  1/4" Poly tubing  12-041 500' • .170 ID x .250 OD Black  1/2-060 1000' • .170 ID x .250 OD Black  1/2-065 3000' • .170 ID x .250 OD Black  1/2-065 3000' • .170 ID x .250 OD Black  1/2-065 3000' • .170 ID x .250 OD Black  1/2-078 500' • .520 ID x .620 OD Black  1/2-080 1000' • .520 ID x .620 OD Black  1/2" Poly tubing  31-007 500' • .520 ID x .620 OD Black  31-012 500' • .615 ID x .710 OD Black  31-013 1000' • .615 ID x .710 OD Black  34-008 1000' • .600 ID x .700 OD Black  3/4" Poly tubing  14-000 250' • .820 ID x .940 OD Black  1" Poly tubing  14-001 500' • .820 ID x .940 OD Black  1" Poly tubing  14-001 500' • .820 ID x .940 OD Black	12-043	1000' • .118 ID x .187 OD	Black	
12-049 500' • .156 ID x .245 OD Brown 12-005 500' • .156 ID x .245 OD Black 12-050 1000' • .156 ID x .245 OD Black 12-015 3000' • .156 ID x .245 OD Black 12-056 500' • .160 ID x .220 OD Black 12-057 1000' • .160 ID x .220 OD Black 12-111 500' • .170 ID x .250 OD Black 12-112 1000' • .170 ID x .250 OD Black 1/8" Poly tubing 12-075 500' • .125 ID x .187 OD Black 12-080 1000' • .125 ID x .187 OD Black 12-085 3000' • .125 ID x .187 OD Black 1/4" Poly tubing 12-041 500' • .170 ID x .250 OD Black 1/2" Poly tubing 12-060 1000' • .170 ID x .250 OD Black 12-065 3000' • .170 ID x .250 OD Black 12-065 3000' • .170 ID x .250 OD Black 17-085 3000' • .170 ID x .250 OD Black 17-085 3000' • .170 ID x .250 OD Black 17-080 1000' • .520 ID x .620 OD Black 17-080 1000' • .520 ID x .620 OD Black 31-012 500' • .615 ID x .710 OD Black 31-013 1000' • .615 ID x .710 OD Black 31-014 1000' • .615 ID x .710 OD Black 31-015 1000' • .615 ID x .700 OD Black 31-008 1000' • .615 ID x .700 OD Black 31-010 250' • .820 ID x .940 OD Black 37-4" Poly tubing 14-000 250' • .820 ID x .940 OD Black 1" Poly tubing 14-011 250' • 1.06 ID x 1.20 OD Black	12-019	3000' • .118 ID x .187 OD	Black	
12-005 500' • .156 ID x .245 OD Black 12-050 1000' • .156 ID x .245 OD Black 12-015 3000' • .156 ID x .245 OD Black 12-056 500' • .160 ID x .220 OD Black 12-057 1000' • .160 ID x .220 OD Black 12-111 500' • .170 ID x .250 OD Black 12-112 1000' • .170 ID x .250 OD Black 1/8" Poly tubing 12-075 500' • .125 ID x .187 OD Black 1/8" Poly tubing 12-080 1000' • .125 ID x .187 OD Black 12-085 3000' • .125 ID x .187 OD Black 1/4" Poly tubing 12-041 500' • .170 ID x .250 OD Black 1/2-060 1000' • .170 ID x .250 OD Black 12-065 3000' • .170 ID x .250 OD Black 17-065 3000' • .170 ID x .250 OD Black 17-065 3000' • .170 ID x .250 OD Black 17-07 500' • .520 ID x .620 OD Black 31-007 500' • .520 ID x .620 OD Black 31-012 500' • .615 ID x .710 OD Black 31-013 1000' • .615 ID x .710 OD Black 31-013 1000' • .615 ID x .710 OD Black 31-0108 1000' • .615 ID x .710 OD Black 31-0108 1000' • .615 ID x .710 OD Black 31-0108 1000' • .615 ID x .700 OD Black 31-0108 1000' • .615 ID x .700 OD Black 31-0108 1000' • .615 ID x .700 OD Black 31-013 1000' • .615 ID x .700 OD Black 31-014 1000' • .600 ID x .700 OD Black 31-015 1000' • .600 ID x .700 OD Black 31-016 1000' • .820 ID x .940 OD Black 31-017 1000' • .820 ID x .940 OD Black 31-018 1000' • .820 ID x .940 OD Black		1/4" Vinyl		
12-050	12-049	500' • .156 ID x .245 OD	Brown	
12-015 3000' • .156 ID x .245 OD Black 12-056 500' • .160 ID x .220 OD Black 12-057 1000' • .160 ID x .220 OD Black 12-111 500' • .170 ID x .250 OD Black 12-112 1000' • .170 ID x .250 OD Black 1/8" Poly tubing 12-075 500' • .125 ID x .187 OD Black 12-080 1000' • .125 ID x .187 OD Black 12-085 3000' • .125 ID x .187 OD Black 1/4" Poly tubing 12-041 500' • .170 ID x .250 OD Black 1/2-060 1000' • .170 ID x .250 OD Black 12-065 3000' • .170 ID x .250 OD Black 1/2" Poly tubing 31-007 500' • .520 ID x .620 OD Black 31-008 1000' • .520 ID x .620 OD Black 31-012 500' • .615 ID x .710 OD Black 31-013 1000' • .615 ID x .710 OD Black 14-008 1000' • .600 ID x .700 OD Black 3/4" Poly tubing 14-000 250' • .820 ID x .940 OD Black 1" Poly tubing 14-001 250' • .820 ID x .940 OD Black	12-005	500' • .156 ID x .245 OD	Black	
12-056 500' • .160 ID x .220 OD Black 12-057 1000' • .160 ID x .220 OD Black 12-111 500' • .170 ID x .250 OD Black 12-112 1000' • .170 ID x .250 OD Black 1/8" Poly tubing 12-075 500' • .125 ID x .187 OD Black 12-080 1000' • .125 ID x .187 OD Black 12-085 3000' • .125 ID x .187 OD Black 1/4" Poly tubing 12-041 500' • .170 ID x .250 OD Black 12-060 1000' • .170 ID x .250 OD Black 12-065 3000' • .170 ID x .250 OD Black 1/2" Poly tubing 31-007 500' • .520 ID x .620 OD Black 31-008 1000' • .520 ID x .620 OD Black 31-012 500' • .615 ID x .710 OD Black 31-013 1000' • .615 ID x .710 OD Black 14-008 1000' • .600 ID x .700 OD Black 3/4" Poly tubing 14-000 250' • .820 ID x .940 OD Black 1" Poly tubing 14-011 250' • 1.06 ID x .940 OD Black	12-050	1000' • .156 ID x .245 OD	Black	
12-057	12-015	3000' • .156 ID x .245 OD	Black	
12-111 500° • .170 ID × .250 OD Black  12-112 1000° • .170 ID × .250 OD Black  1/8" Poly tubing  12-075 500° • .125 ID × .187 OD Black  12-080 1000° • .125 ID × .187 OD Black  12-085 3000° • .125 ID × .187 OD Black  1/4" Poly tubing  12-041 500° • .170 ID × .250 OD Black  12-060 1000° • .170 ID × .250 OD Black  12-065 3000° • .170 ID × .250 OD Black  1/2" Poly tubing  31-007 500° • .520 ID × .620 OD Black  31-008 1000° • .520 ID × .620 OD Black  31-012 500° • .615 ID × .710 OD Black  31-013 1000° • .615 ID × .710 OD Black  31-008 1000° • .600 ID × .700 OD Black  34-000 250° • .820 ID × .940 OD Black  14-000 250° • .820 ID × .940 OD Black  1" Poly tubing  14-011 250° • 1.06 ID × 1.20 OD Black	12-056	500' • .160 ID x .220 OD	Black	
12-112	12-057	1000' • .160 ID x .220 OD	Black	
1/8" Poly tubing  12-075 500' • .125 ID x .187 OD Black  12-080 1000' • .125 ID x .187 OD Black  12-085 3000' • .125 ID x .187 OD Black  1/4" Poly tubing  12-041 500' • .170 ID x .250 OD Black  12-060 1000' • .170 ID x .250 OD Black  1/2" Poly tubing  31-007 500' • .520 ID x .620 OD Black  31-008 1000' • .520 ID x .620 OD Black  31-012 500' • .615 ID x .710 OD Black  31-013 1000' • .615 ID x .710 OD Black  34-008 1000' • .600 ID x .700 OD Black  14-008 500' • .820 ID x .940 OD Black  3/4" Poly tubing  14-000 250' • .820 ID x .940 OD Black  14-001 500' • .820 ID x .940 OD Black  14-002 500' • .820 ID x .940 OD Black	12-111	500' • .170 ID x .250 OD	Black	
12-075 500' • .125 ID x .187 OD Black 12-080 1000' • .125 ID x .187 OD Black 12-085 3000' • .125 ID x .187 OD Black 1/4" Poly tubing  12-041 500' • .170 ID x .250 OD Black 12-060 1000' • .170 ID x .250 OD Black 1/2" Poly tubing  31-007 500' • .520 ID x .620 OD Black 1/2" Poly tubing  31-008 1000' • .520 ID x .620 OD Black 31-012 500' • .615 ID x .710 OD Black 31-013 1000' • .615 ID x .710 OD Black 14-008 1000' • .600 ID x .700 OD Black 3/4" Poly tubing  14-000 250' • .820 ID x .940 OD Black 14-002 500' • .820 ID x .940 OD Black 1" Poly tubing	12-112	1000' • .170 ID x .250 OD	Black	
12-080	1/8" Poly tubing			
12-085 3000' • .125 ID x .187 OD Black  1/4" Poly tubing  12-041 500' • .170 ID x .250 OD Black  12-060 1000' • .170 ID x .250 OD Black  12-065 3000' • .170 ID x .250 OD Black  1/2" Poly tubing  31-007 500' • .520 ID x .620 OD Black  31-008 1000' • .520 ID x .620 OD Black  31-012 500' • .615 ID x .710 OD Black  31-013 1000' • .615 ID x .710 OD Black  14-008 1000' • .600 ID x .700 OD Black  3/4" Poly tubing  14-000 250' • .820 ID x .940 OD Black  14-002 500' • .820 ID x .940 OD Black  14-001 500' • .820 ID x .940 OD Black	12-075	500' • .125 ID x .187 OD	Black	
1/4" Poly tubing  12-041 500' • .170 ID x .250 OD Black  12-060 1000' • .170 ID x .250 OD Black  12-065 3000' • .170 ID x .250 OD Black  1/2" Poly tubing  31-007 500' • .520 ID x .620 OD Black  31-008 1000' • .520 ID x .620 OD Black  31-012 500' • .615 ID x .710 OD Black  31-013 1000' • .615 ID x .710 OD Black  14-008 1000' • .600 ID x .700 OD Black  3/4" Poly tubing  14-000 250' • .820 ID x .940 OD Black  14-002 500' • .820 ID x .940 OD Black  1" Poly tubing  14-011 250' • 1.06 ID x 1.20 OD Black	12-080	1000' • .125 ID x .187 OD	Black	
12-041 500' • .170 ID × .250 OD Black 12-060 1000' • .170 ID × .250 OD Black 12-065 3000' • .170 ID × .250 OD Black 1/2" Poly tubing  31-007 500' • .520 ID × .620 OD Black 31-008 1000' • .520 ID × .620 OD Black 31-012 500' • .615 ID × .710 OD Black 31-013 1000' • .615 ID × .710 OD Black 14-008 1000' • .600 ID × .700 OD Black 3/4" Poly tubing  14-000 250' • .820 ID × .940 OD Black 1" Poly tubing  14-011 250' • 1.06 ID × 1.20 OD Black	12-085	3000' • .125 ID x .187 OD	Black	
12-060 1000' • .170 ID x .250 OD Black 12-065 3000' • .170 ID x .250 OD Black  1/2" Poly tubing  31-007 500' • .520 ID x .620 OD Black 31-008 1000' • .520 ID x .620 OD Black 31-012 500' • .615 ID x .710 OD Black 31-013 1000' • .615 ID x .710 OD Black 14-008 1000' • .600 ID x .700 OD Black 3/4" Poly tubing  14-000 250' • .820 ID x .940 OD Black 1" Poly tubing  14-011 250' • 1.06 ID x 1.20 OD Black		1/4" Poly tubing		
12-065 3000' • .170 ID x .250 OD Black  1/2" Poly tubing  31-007 500' • .520 ID x .620 OD Black  31-008 1000' • .520 ID x .620 OD Black  31-012 500' • .615 ID x .710 OD Black  31-013 1000' • .615 ID x .710 OD Black  14-008 1000' • .600 ID x .700 OD Black  3/4" Poly tubing  14-000 250' • .820 ID x .940 OD Black  1" Poly tubing  14-011 250' • 1.06 ID x 1.20 OD Black	12-041	500' • .170 ID x .250 OD	Black	
1/2" Poly tubing  31-007 500' • .520 ID x .620 OD Black  31-008 1000' • .520 ID x .620 OD Black  31-012 500' • .615 ID x .710 OD Black  31-013 1000' • .615 ID x .710 OD Black  14-008 1000' • .600 ID x .700 OD Black  3/4" Poly tubing  14-000 250' • .820 ID x .940 OD Black  1* Poly tubing  14-011 250' • 1.06 ID x 1.20 OD Black	12-060	1000' • .170 ID x .250 OD	Black	
31-007 500' • .520 ID × .620 OD Black 31-008 1000' • .520 ID × .620 OD Black 31-012 500' • .615 ID × .710 OD Black 31-013 1000' • .615 ID × .710 OD Black 14-008 1000' • .600 ID × .700 OD Black 3/4" Poly tubing 14-000 250' • .820 ID × .940 OD Black 1* Poly tubing 14-011 250' • 1.06 ID × 1.20 OD Black	12-065	3000' • .170 ID x .250 OD	Black	
31-008 1000' • .520 ID x .620 OD Black 31-012 500' • .615 ID x .710 OD Black 31-013 1000' • .615 ID x .710 OD Black 14-008 1000' • .600 ID x .700 OD Black  3/4" Poly tubing 14-000 250' • .820 ID x .940 OD Black 14-002 500' • .820 ID x .940 OD Black 1" Poly tubing 14-011 250' • 1.06 ID x 1.20 OD Black	1/2" Poly tubing			
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31-013 1000' • .615 ID x .710 OD Black 14-008 1000' • .600 ID x .700 OD Black  3/4" Poly tubing  14-000 250' • .820 ID x .940 OD Black  14-002 500' • .820 ID x .940 OD Black  1" Poly tubing  14-011 250' • 1.06 ID x 1.20 OD Black	31-008	1000' • .520 ID x .620 OD	Black	
14-008 1000' • .600 ID x .700 OD Black  3/4" Poly tubing  14-000 250' • .820 ID x .940 OD Black  14-002 500' • .820 ID x .940 OD Black  1" Poly tubing  14-011 250' • 1.06 ID x 1.20 OD Black	31-012	500' • .615 ID x .710 OD	Black	
3/4" Poly tubing  14-000 250' • .820 ID x .940 OD Black  14-002 500' • .820 ID x .940 OD Black  1" Poly tubing  14-011 250' • 1.06 ID x 1.20 OD Black	31-013	1000' • .615 ID x .710 OD	Black	
14-000 250' • .820 ID x .940 OD Black 14-002 500' • .820 ID x .940 OD Black 1" Poly tubing 14-011 250' • 1.06 ID x 1.20 OD Black	14-008	1000' • .600 ID x .700 OD	Black	
14-002 500' • .820 ID x .940 OD Black 1" Poly tubing 14-011 250' • 1.06 ID x 1.20 OD Black	3/4" Poly tubing			
1" Poly tubing 14-011 250' • 1.06 ID x 1.20 OD Black	14-000	250' • .820 ID x .940 OD	Black	
14-011 250' • 1.06 ID x 1.20 OD Black	14-002	500' • .820 ID x .940 OD	Black	
	1" Poly tubing			
14-012 500' • 1.06 ID x 1.20 OD Black	14-011	250' • 1.06 ID x 1.20 OD	Black	
	14-012	500' • 1.06 ID x 1.20 OD	Black	



# water matters™

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